

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 ² /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	-139.09	4.91
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	-137.71	6.29
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	-134.84	9.16
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	-136.12	7.88
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	-137.69	6.31
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	-134.95	9.05
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	-136.21	7.79
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	-138.16	5.84
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	-135.04	8.96
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	-137.19	6.81
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	-137.91	6.09
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	-136.14	7.86
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	-138.70	5.30
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	-136.14	7.86
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	-135.71	8.29
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	-136.82	7.18
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	-136.13	7.87
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	-139.30	4.70
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	-135.70	8.30
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	-136.53	7.47
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	-138.72	5.28
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	-137.80	6.20
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	-136.49	7.51
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	-138.99	5.01
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	-138.76	5.24
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	-136.44	7.56
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	-138.72	5.28
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	-136.43	7.57
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	-138.21	5.79
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	-136.44	7.56
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	-137.69	6.31
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	-135.72	8.28
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	-136.44	7.56
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	-140.93	3.07
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	-136.30	7.70
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	-137.06	6.94
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	-136.21	7.79
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	-136.43	7.57
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	-136.52	7.48
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	-135.70	8.30
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	-136.00	8.00
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	-138.36	5.64
43	2/16/2020 22:54	2/16/2020 23:03	0:09:20	43.34	146.35	281.44	51.06	-160.95	312.17	-137.97	6.03
44	2/16/2020 23:05	2/16/2020 23:09	0:03:59	50.02	-154.14	316.83	43.60	-133.87	333.37	-141.58	2.42
45	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	-140.48	3.52
46	2/16/2020 23:53	2/17/2020 0:35	0:41:49	-47.12	25.44	374.55	51.02	176.17	312.28	-137.98	6.02
47	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	-138.96	5.04
48	2/17/2020 1:44	2/17/2020 2:06	0:21:40	9.08	62.30	278.59	50.97	153.30	312.28	-138.00	6.00
49	2/17/2020 2:07	2/17/2020 2:10	0:02:31	49.89	160.08	316.94	46.26	173.28	327.19	-141.59	2.41
50	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	-140.92	3.08
51	2/17/2020 2:46	2/17/2020 2:48	0:02:19	-48.91	-76.00	424.60	-51.18	-62.97	425.09	-143.00	1.00
52	2/17/2020 2:49	2/17/2020 3:03	0:13:51	-51.59	-58.07	425.13	-30.77	7.20	416.78	-141.28	2.72
53	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	-142.09	1.91
54	2/17/2020 3:32	2/17/2020 3:37	0:05:09	48.87	92.09	420.62	51.65	121.99	422.03	-140.98	3.02
55	2/17/2020 3:44	2/17/2020 3:45	0:01:20	44.27	154.69	419.33	41.51	160.31	419.10	-142.05	1.95
56	2/17/2020 3:45	2/17/2020 3:45	0:00:09	40.40	162.29	419.00	40.02	162.93	418.96	-141.98	2.02
57	2/17/2020 3:46	2/17/2020 3:47	0:00:39	38.86	164.82	418.85	37.26	167.23	418.69	-142.15	1.85
58	2/17/2020 3:47	2/17/2020 3:47	0:00:09	35.60	169.53	418.52	35.18	170.09	418.47	-143.23	0.77
59	2/17/2020 4:03	2/17/2020 4:04	0:01:49	-9.25	-152.68	419.25	-14.77	-148.53	420.38	-143.10	0.90
60	2/17/2020 4:06	2/17/2020 4:12	0:06:20	-18.72	-145.37	421.30	-36.16	-127.33	426.10	-142.36	1.64

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	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 ² /4kHz)	PFD Non- Compliance (dB)
61	2/17/2020 4:13	2/17/2020 4:15	0:02:30	-37.39	-125.59	426.44	-43.03	-115.92	427.93	-142.77	1.23
62	2/17/2020 4:20	2/17/2020 4:20	0:00:00	-50.30	-92.90	429.21	-50.30	-92.90	429.21	-143.89	0.11
63	2/17/2020 4:20	2/17/2020 4:21	0:01:01	-50.74	-90.07	429.20	-51.40	-84.27	429.09	-142.32	1.68
64	2/17/2020 4:23	2/17/2020 4:23	0:00:09	-51.78	-74.35	428.63	-51.77	-73.35	428.56	-142.44	1.56
65	2/17/2020 4:24	2/17/2020 4:24	0:00:00	-51.43	-66.42	428.01	-51.43	-66.42	428.01	-143.64	0.36
66	2/17/2020 4:27	2/17/2020 4:27	0:00:59	-49.65	-54.08	426.56	-48.38	-48.77	425.71	-142.18	1.82
67	2/17/2020 4:28	2/17/2020 4:29	0:00:20	-47.39	-45.39	425.10	-46.85	-43.75	424.77	-143.36	0.64
68	2/17/2020 4:32	2/17/2020 4:32	0:00:11	-40.62	-29.90	421.29	-40.24	-29.25	421.09	-143.60	0.40
69	2/17/2020 4:32	2/17/2020 4:33	0:00:41	-38.70	-26.74	420.28	-37.09	-24.34	419.46	-143.27	0.73
70	2/17/2020 4:34	2/17/2020 4:35	0:00:59	-35.86	-22.61	418.84	-33.30	-19.32	417.59	-141.61	2.39
71	2/17/2020 4:37	2/17/2020 4:48	0:11:00	-27.90	-13.33	415.11	4.97	12.44	406.75	-141.97	2.03
72	2/17/2020 4:48	2/17/2020 4:58	0:10:10	6.50	13.54	406.70	35.67	40.21	411.31	-140.74	3.26
73	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	-142.90	1.10
74	2/17/2020 5:07	2/17/2020 5:08	0:00:30	51.11	81.05	417.72	51.40	83.98	417.97	-142.59	1.41
75	2/17/2020 5:09	2/17/2020 5:09	0:00:41	51.74	89.94	418.42	51.78	93.94	418.67	-143.75	0.25
76	2/17/2020 5:20	2/17/2020 5:20	0:00:39	37.03	143.99	418.63	35.37	146.28	418.46	-142.89	1.11
77	2/17/2020 5:25	2/17/2020 5:27	0:02:49	23.59	159.05	417.43	15.28	166.01	417.10	-142.81	1.19
78	2/17/2020 5:29	2/17/2020 5:34	0:04:40	8.76	170.92	417.19	-5.48	-178.96	418.58	-141.23	2.77
79	2/17/2020 5:39	2/17/2020 5:48	0:08:50	-19.49	-168.31	421.48	-42.53	-140.49	427.81	-142.89	1.11
80	2/17/2020 5:51	2/17/2020 5:51	0:00:00	-48.44	-124.96	429.04	-48.44	-124.96	429.04	-143.84	0.16
81	2/17/2020 5:52	2/17/2020 5:54	0:01:40	-50.06	-117.81	429.20	-51.36	-108.27	429.10	-141.26	2.74
82	2/17/2020 5:56	2/17/2020 5:56	0:00:20	-51.78	-98.36	428.66	-51.76	-96.36	428.52	-143.59	0.41
83	2/17/2020 5:57	2/17/2020 6:02	0:05:00	-51.65	-93.38	428.30	-46.40	-66.07	424.51	-142.73	1.27
84	2/17/2020 6:05	2/17/2020 6:24	0:19:19	-39.63	-51.84	420.76	16.40	-2.70	407.11	-142.16	1.84
85	2/17/2020 6:25	2/17/2020 6:32	0:07:10	19.37	-0.29	407.49	38.79	21.07	412.31	-142.70	1.30
86	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	-141.32	2.68
87	2/17/2020 6:43	2/17/2020 6:44	0:01:10	51.54	76.91	418.97	50.83	83.74	419.22	-142.41	1.59
88	2/17/2020 6:47	2/17/2020 6:50	0:03:10	47.97	97.34	419.41	42.16	111.89	419.08	-140.60	3.40
89	2/17/2020 6:52	2/17/2020 6:53	0:01:49	38.39	118.35	418.73	33.82	124.64	418.27	-142.88	1.12
90	2/17/2020 6:57	2/17/2020 6:59	0:01:20	23.77	135.25	417.42	19.90	138.63	417.21	-142.40	1.60
91	2/17/2020 7:00	2/17/2020 7:01	0:00:50	14.47	143.00	417.07	11.96	144.91	417.08	-142.45	1.55
92	2/17/2020 7:02	2/17/2020 7:02	0:00:00	10.45	146.03	417.11	10.45	146.03	417.11	-142.91	1.09
93	2/17/2020 7:04	2/17/2020 7:07	0:02:10	2.33	151.86	417.59	-4.29	156.53	418.38	-141.73	2.27
94	2/17/2020 7:07	2/17/2020 7:13	0:05:30	-5.81	157.62	418.61	-22.23	170.39	422.16	-141.56	2.44
95	2/17/2020 7:13	2/17/2020 7:13	0:00:00	-25.09	173.00	422.93	-25.09	173.00	422.93	-143.28	0.72
96	2/17/2020 7:14	2/17/2020 7:21	0:06:29	-26.97	174.81	423.44	-43.11	-163.00	427.89	-141.13	2.87
97	2/17/2020 7:22	2/17/2020 7:24	0:01:50	-45.07	-158.61	428.35	-48.13	-149.77	428.93	-142.76	1.24
98	2/17/2020 7:31	2/17/2020 7:32	0:01:01	-50.77	-107.61	427.31	-49.82	-102.01	426.59	-141.44	2.56
99	2/17/2020 7:32	2/17/2020 7:32	0:00:00	-49.23	-99.30	426.18	-49.23	-99.30	426.18	-143.27	0.73
100	2/17/2020 7:33	2/17/2020 7:33	0:00:00	-48.10	-94.94	425.46	-48.10	-94.94	425.46	-143.91	0.09
101	2/17/2020 7:34	2/17/2020 7:34	0:00:10	-46.81	-90.79	424.66	-46.53	-89.98	424.50	-142.81	1.19
102	2/17/2020 7:37	2/17/2020 7:37	0:00:00	-41.66	-78.95	421.76	-41.66	-78.95	421.76	-142.01	1.99
103	2/17/2020 7:40	2/17/2020 7:41	0:00:21	-33.21	-66.42	417.47	-32.33	-65.37	417.05	-141.15	2.85
104	2/17/2020 7:41	2/17/2020 7:42	0:01:00	-31.00	-63.84	416.42	-28.27	-60.91	415.19	-142.75	1.25
105	2/17/2020 7:44	2/17/2020 7:45	0:00:59	-21.64	-54.66	412.48	-18.71	-52.17	411.41	-142.19	1.81
106	2/17/2020 7:46	2/17/2020 7:46	0:00:11	-16.24	-50.18	410.59	-15.74	-49.79	410.44	-143.91	0.09
107	2/17/2020 7:53	2/17/2020 7:54	0:00:39	5.08	-34.70	406.69	7.12	-33.24	406.63	-142.63	1.37
108	2/17/2020 7:54	2/17/2020 7:55	0:00:30	8.64	-32.13	406.63	10.16	-31.02	406.66	-142.38	1.62
109	2/17/2020 7:58	2/17/2020 7:59	0:01:09	19.16	-24.03	407.43	22.57	-21.10	407.99	-142.37	1.63
110	2/17/2020 8:00	2/17/2020 8:01	0:00:50	24.96	-18.92	408.46	27.31	-16.63	408.98	-142.29	1.71
111	2/17/2020 8:02	2/17/2020 8:03	0:00:59	30.07	-13.76	409.67	32.75	-10.71	410.41	-142.49	1.51
112	2/17/2020 8:04	2/17/2020 8:05	0:01:00	35.34	-7.45	411.19	37.82	-3.98	411.99	-142.45	1.55
113	2/17/2020 8:05	2/17/2020 8:06	0:00:50	39.40	-1.52	412.54	41.29	1.72	413.22	-142.27	1.73
114	2/17/2020 8:07	2/17/2020 8:08	0:00:50	43.75	6.58	414.15	45.36	10.31	414.81	-142.52	1.48
115	2/17/2020 8:09	2/17/2020 8:10	0:01:20	46.25	12.65	415.18	48.36	19.28	416.14	-142.07	1.93
116	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	-141.08	2.92
117	2/17/2020 8:26	2/17/2020 8:34	0:08:11	35.29	99.19	418.46	12.18	121.18	417.13	-140.29	3.71
118	2/17/2020 8:34	2/17/2020 8:37	0:02:40	10.67	122.30	417.16	2.55	128.14	417.62	-142.65	1.35
119	2/17/2020 8:37	2/17/2020 8:38	0:00:11	1.03	129.22	417.77	0.52	129.58	417.82	-143.78	0.22
120	2/17/2020 8:39	2/17/2020 8:40	0:00:10	-4.58	133.17	418.47	-5.08	133.53	418.55	-143.56	0.44

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	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 ² /4kHz)	PFD Non- Compliance (dB)
121	2/17/2020 8:40	2/17/2020 8:40	0:00:10	-6.61	134.62	418.79	-7.12	134.99	418.87	-143.21	0.79
122	2/17/2020 8:41	2/17/2020 8:43	0:01:31	-9.65	136.82	419.32	-14.16	140.21	420.24	-142.56	1.44
123	2/17/2020 8:44	2/17/2020 8:45	0:01:40	-18.13	143.35	421.15	-22.98	147.49	422.39	-142.68	1.32
124	2/17/2020 8:47	2/17/2020 8:47	0:00:00	-28.16	152.44	423.80	-28.16	152.44	423.80	-143.89	0.11
125	2/17/2020 8:54	2/17/2020 8:54	0:00:10	-44.30	176.00	428.18	-44.62	176.74	428.26	-143.80	0.20
126	2/17/2020 8:55	2/17/2020 8:56	0:01:30	-45.85	179.79	428.52	-48.26	-172.85	428.95	-143.00	1.00
127	2/17/2020 8:58	2/17/2020 9:02	0:03:31	-50.58	-162.02	429.14	-51.70	-141.37	428.28	-141.82	2.18
128	2/17/2020 9:02	2/17/2020 9:04	0:01:59	-51.53	-138.40	428.04	-50.07	-126.89	426.76	-141.08	2.92
129	2/17/2020 9:08	2/17/2020 9:08	0:00:39	-45.48	-110.76	423.88	-44.22	-107.75	423.16	-140.93	3.07
130	2/17/2020 9:10	2/17/2020 9:35	0:25:39	-41.45	-102.14	421.64	32.12	-35.02	410.25	-140.88	3.12
131	2/17/2020 9:36	2/17/2020 9:38	0:01:40	33.87	-32.91	410.76	38.05	-27.20	412.10	-143.11	0.89
132	2/17/2020 9:38	2/17/2020 9:40	0:01:40	39.23	-25.36	412.51	42.92	-18.72	413.87	-142.59	1.41
133	2/17/2020 9:41	2/17/2020 9:42	0:01:00	44.59	-15.10	414.53	46.41	-10.46	415.29	-141.93	2.07
134	2/17/2020 9:42	2/17/2020 9:43	0:00:41	47.24	-8.03	415.66	48.26	-4.66	416.13	-142.05	1.95
135	2/17/2020 9:47	2/17/2020 9:47	0:00:09	51.67	16.94	418.26	51.71	17.94	418.33	-143.40	0.60
136	2/17/2020 9:47	2/17/2020 9:47	0:00:00	51.79	22.94	418.62	51.79	22.94	418.62	-142.87	1.13
137	2/17/2020 9:50	2/17/2020 9:51	0:01:50	50.94	35.77	419.12	49.08	45.98	419.24	-142.51	1.49
138	2/17/2020 9:54	2/17/2020 10:01	0:07:09	45.74	56.81	419.06	28.85	83.15	417.05	-141.59	2.41
139	2/17/2020 10:03	2/17/2020 10:20	0:17:30	23.22	88.61	416.48	-28.90	129.64	422.09	-142.35	1.65
140	2/17/2020 10:22	2/17/2020 10:22	0:00:00	-32.93	134.15	423.20	-32.93	134.15	423.20	-143.75	0.25
141	2/17/2020 10:23	2/17/2020 10:24	0:01:01	-35.50	137.40	423.92	-37.96	140.88	424.59	-143.44	0.56
142	2/17/2020 10:26	2/17/2020 10:27	0:01:50	-41.77	147.24	425.60	-45.44	155.17	426.47	-142.47	1.53
143	2/17/2020 10:29	2/17/2020 10:32	0:03:20	-47.93	162.42	426.96	-51.36	-179.20	428.33	-142.74	1.26
144	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	-141.16	2.84
145	2/17/2020 11:13	2/17/2020 11:15	0:01:51	44.15	-39.68	413.48	47.41	-31.07	414.72	-142.53	1.47
146	2/17/2020 11:16	2/17/2020 11:21	0:05:19	48.63	-26.81	415.23	51.66	4.01	417.43	-140.55	3.45
147	2/17/2020 11:25	2/17/2020 11:26	0:00:59	48.49	24.74	417.70	46.98	29.79	417.61	-143.31	0.69
148	2/17/2020 11:27	2/17/2020 11:27	0:00:11	44.60	36.03	417.40	44.28	36.78	417.36	-144.00	0.00
149	2/17/2020 11:34	2/17/2020 11:39	0:04:31	26.22	62.24	415.36	13.05	73.39	414.77	-142.26	1.74
150	2/17/2020 11:40	2/17/2020 12:05	0:25:01	10.03	75.64	414.83	-51.42	157.91	428.47	-142.25	1.75
151	2/17/2020 12:06	2/17/2020 12:09	0:02:50	-51.72	162.86	428.36	-51.03	179.67	427.32	-141.39	2.61
152	2/17/2020 12:11	2/17/2020 12:48	0:36:19	-48.12	-165.73	425.46	47.58	-54.07	414.69	-141.31	2.69
153	2/17/2020 12:48	2/17/2020 12:54	0:05:21	48.56	-50.65	415.09	51.68	-19.88	417.25	-140.59	3.41
154	2/17/2020 12:57	2/17/2020 12:59	0:01:20	48.56	0.90	417.50	46.51	7.58	417.36	-142.90	1.10
155	2/17/2020 12:59	2/17/2020 13:01	0:02:19	45.63	9.95	417.28	40.89	19.96	416.76	-143.72	0.28
156	2/17/2020 13:04	2/17/2020 13:05	0:00:50	34.46	29.55	415.99	32.29	32.21	415.74	-143.77	0.23
157	2/17/2020 13:07	2/17/2020 13:12	0:04:11	25.42	39.44	415.07	13.20	49.70	414.57	-142.26	1.74
158	2/17/2020 13:13	2/17/2020 13:14	0:01:00	9.18	52.70	414.66	6.13	54.90	414.82	-142.60	1.40
159	2/17/2020 13:17	2/17/2020 13:38	0:21:01	-2.53	61.02	415.75	-51.48	135.04	429.68	-142.35	1.65
160	2/17/2020 13:39	2/17/2020 13:45	0:06:39	-51.74	139.99	429.76	-46.07	177.01	427.65	-141.41	2.59
161	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	-141.62	2.38
162	2/17/2020 14:30	2/17/2020 14:35	0:05:29	48.75	-23.40	423.59	38.14	0.88	420.78	-142.80	1.20
163	2/17/2020 14:36	2/17/2020 14:38	0:02:10	36.93	2.66	420.47	31.35	9.72	419.14	-143.53	0.47
164	2/17/2020 14:40	2/17/2020 14:44	0:03:50	24.89	16.35	417.80	13.65	25.78	416.26	-142.32	1.68
165	2/17/2020 14:46	2/17/2020 15:00	0:14:19	8.11	29.90	415.94	-34.02	64.78	423.56	-142.27	1.73
166	2/17/2020 15:20	2/17/2020 15:30	0:10:41	-43.17	160.25	426.53	-14.93	-167.00	417.72	-141.79	2.21
167	2/17/2020 15:31	2/17/2020 15:32	0:00:39	-12.43	-165.09	417.21	-10.42	-163.59	416.84	-142.93	1.07
168	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	-142.68	1.32
169	2/17/2020 15:55	2/17/2020 15:59	0:04:11	50.06	-91.15	423.81	51.67	-66.68	424.32	-140.81	3.19
170	2/17/2020 16:03	2/17/2020 16:08	0:05:19	48.94	-47.73	423.63	38.87	-23.84	420.97	-142.58	1.42
171	2/17/2020 16:11	2/17/2020 16:11	0:00:30	31.73	-14.30	419.23	30.38	-12.79	418.92	-143.31	0.69
172	2/17/2020 16:13	2/17/2020 16:17	0:03:50	24.35	-6.72	417.71	13.08	2.63	416.21	-142.31	1.69
173	2/17/2020 16:19	2/17/2020 16:38	0:18:59	7.53	6.73	415.93	-45.03	59.86	427.37	-142.29	1.71
174	2/17/2020 16:39	2/17/2020 16:40	0:01:00	-45.94	62.17	427.69	-47.60	67.02	428.26	-143.42	0.58
175	2/17/2020 16:42	2/17/2020 16:44	0:01:11	-50.77	81.37	429.33	-51.50	88.16	429.56	-142.57	1.43
176	2/17/2020 16:44	2/17/2020 17:03	0:19:00	-51.76	93.11	429.64	-14.36	169.86	417.52	-141.49	2.51
177	2/17/2020 17:04	2/17/2020 17:08	0:03:30	-11.35	172.14	416.94	-0.69	179.79	415.61	-142.87	1.13
178	2/17/2020 17:08	2/17/2020 17:26	0:18:10	0.84	-179.13	415.52	48.23	-122.63	423.31	-142.64	1.36
179	2/17/2020 17:27	2/17/2020 17:32	0:05:00	49.13	-119.14	423.57	51.66	-90.11	424.35	-140.83	3.17
180	2/17/2020 17:34	2/17/2020 17:34	0:00:09	50.56	-79.41	424.09	50.41	-78.47	424.05	-143.72	0.28

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 ² /4kHz)	PFD Non- Compliance (dB)
181	2/17/2020 17:35	2/17/2020 17:37	0:01:20	49.13	-72.06	423.72	47.21	-65.22	423.22	-142.22	1.78
182	2/17/2020 17:40	2/17/2020 17:45	0:05:00	41.83	-52.49	421.80	29.41	-35.32	418.79	-142.41	1.59
183	2/17/2020 17:46	2/17/2020 17:50	0:03:40	23.80	-29.80	417.70	13.00	-20.89	416.30	-142.30	1.70
184	2/17/2020 17:52	2/17/2020 18:16	0:23:20	6.44	-16.07	416.00	-51.15	60.81	429.45	-142.27	1.73
185	2/17/2020 18:19	2/17/2020 18:36	0:17:30	-51.57	79.63	429.51	-13.78	146.72	417.32	-141.47	2.53
186	2/17/2020 18:37	2/17/2020 18:59	0:22:01	-10.77	148.98	416.75	48.27	-146.08	423.34	-142.62	1.38
187	2/17/2020 19:00	2/17/2020 19:05	0:04:59	49.16	-142.58	423.60	51.65	-113.54	424.41	-140.85	3.15
188	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	-143.13	0.87
189	2/17/2020 19:55	2/17/2020 20:09	0:14:11	-48.30	75.76	428.36	-13.21	123.57	417.14	-142.12	1.88
190	2/17/2020 20:10	2/17/2020 20:32	0:22:01	-10.19	125.82	416.58	48.54	-168.67	423.28	-142.64	1.36
191	2/17/2020 20:33	2/17/2020 20:38	0:05:01	49.19	-166.04	423.48	51.64	-136.98	424.30	-140.86	3.14
192	2/17/2020 20:40	2/17/2020 20:44	0:04:09	50.36	-125.35	424.01	44.14	-104.38	422.43	-141.92	2.08
193	2/17/2020 20:58	2/17/2020 21:17	0:18:40	5.27	-62.40	416.15	-45.78	-9.02	427.86	-142.25	1.75
194	2/17/2020 21:17	2/17/2020 21:22	0:04:01	-46.65	-6.65	428.15	-51.28	14.90	429.67	-142.54	1.46
195	2/17/2020 21:23	2/17/2020 21:27	0:04:30	-51.77	22.80	429.80	-49.16	48.81	428.73	-141.45	2.55
196	2/17/2020 21:30	2/17/2020 21:42	0:12:11	-44.63	62.71	427.02	-12.64	100.42	416.97	-142.16	1.84
197	2/17/2020 21:44	2/17/2020 22:00	0:16:30	-9.11	103.03	416.34	38.61	145.02	420.31	-142.64	1.36
198	2/17/2020 22:03	2/17/2020 22:11	0:07:51	44.71	156.55	422.01	51.63	-160.41	424.16	-140.87	3.13
199	2/17/2020 22:13	2/17/2020 22:24	0:11:20	50.34	-148.79	423.88	26.42	-103.03	418.23	-140.70	3.30
200	2/17/2020 22:26	2/17/2020 22:27	0:01:09	22.14	-99.07	417.50	18.73	-96.17	417.02	-142.41	1.59
201	2/17/2020 22:32	2/17/2020 22:50	0:18:20	4.17	-85.20	416.20	-45.82	-32.48	427.91	-142.28	1.72
202	2/17/2020 22:50	2/17/2020 22:55	0:04:11	-46.69	-30.11	428.20	-51.39	-7.56	429.73	-142.50	1.50
203	2/17/2020 22:56	2/17/2020 23:05	0:09:20	-51.77	-0.63	429.82	-40.38	47.55	425.43	-141.52	2.48
204	2/17/2020 23:08	2/17/2020 23:15	0:07:31	-33.46	57.51	422.91	-12.06	77.27	416.84	-142.17	1.83
205	2/17/2020 23:17	2/17/2020 23:40	0:23:59	-8.52	79.87	416.23	51.15	158.29	424.07	-142.65	1.35
206	2/18/2020 0:06	2/18/2020 0:23	0:16:31	-2.02	-104.42	416.63	-46.16	-55.17	428.09	-142.31	1.69
207	2/18/2020 0:23	2/18/2020 0:28	0:04:20	-47.00	-52.77	428.37	-51.55	-29.04	429.81	-142.48	1.52
208	2/18/2020 0:28	2/18/2020 0:48	0:19:30	-51.74	-25.08	429.85	-12.99	52.98	417.00	-141.57	2.43
209	2/18/2020 1:03	2/18/2020 1:16	0:13:19	32.44	89.56	418.75	51.55	153.70	424.33	-140.87	3.13
210	2/18/2020 1:19	2/18/2020 1:30	0:11:40	49.95	166.16	423.98	24.40	-148.28	418.08	-140.82	3.18
211	2/18/2020 1:32	2/18/2020 1:35	0:03:39	21.03	-145.28	417.54	10.11	-136.66	416.47	-142.34	1.66
212	2/18/2020 1:38	2/18/2020 1:49	0:11:30	3.01	-131.55	416.40	-30.96	-103.93	422.93	-142.34	1.66
213	2/18/2020 1:52	2/18/2020 1:56	0:03:50	-38.18	-94.59	425.32	-46.20	-78.65	428.05	-143.56	0.44
214	2/18/2020 1:56	2/18/2020 2:21	0:25:19	-47.04	-76.24	428.33	-10.40	31.33	416.43	-141.60	2.40
215	2/18/2020 2:23	2/18/2020 2:36	0:13:30	-6.86	33.91	415.87	32.95	66.58	418.84	-142.65	1.35
216	2/18/2020 2:42	2/18/2020 2:49	0:07:40	45.16	86.88	422.21	51.61	129.26	424.33	-141.19	2.81
217	2/18/2020 2:51	2/18/2020 3:28	0:36:30	49.92	142.71	423.99	-45.35	-104.45	427.67	-141.06	2.94
218	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	-143.31	0.69
219	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	-143.35	0.65
220	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	-143.31	0.69
221	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	-143.47	0.53
222	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	-143.37	0.63
223	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	-143.36	0.64
224	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	-143.47	0.53
225	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	-143.43	0.57
226	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	-143.39	0.61
227	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	-143.47	0.53
228	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	-143.44	0.56
229	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	-143.44	0.56
230	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	-143.50	0.50

Max. Exceedance: 9.16 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 ² /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	-137.29	6.71
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	-135.91	8.09
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	-133.04	10.96
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	-134.32	9.68
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	-135.89	8.11
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	-133.15	10.85
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	-134.41	9.59
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	-136.36	7.64
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	-133.24	10.76
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	-135.39	8.61
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	-136.11	7.89
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	-134.34	9.66
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	-136.90	7.10
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	-134.34	9.66
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	-133.91	10.09
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	-135.02	8.98
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	-134.33	9.67
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	-137.50	6.50
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	-133.90	10.10
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	-134.73	9.27
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	-136.92	7.08
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	-136.00	8.00
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	-134.69	9.31
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	-137.19	6.81
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	-136.96	7.04
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	-134.64	9.36
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	-136.92	7.08
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	-134.63	9.37
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	-136.41	7.59
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	-134.64	9.36
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	-135.89	8.11
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	-133.92	10.08
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	-134.64	9.36
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	-139.13	4.87
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	-134.50	9.50
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	-135.26	8.74
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	-134.41	9.59
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	-134.63	9.37
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	-134.72	9.28
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	-133.90	10.10
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	-134.20	9.80
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	-136.56	7.44
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	-136.17	7.83
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	-138.68	5.32
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	-136.18	7.82
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	-137.16	6.84
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	-136.20	7.80
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	-139.12	4.88
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	-139.48	4.52
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	-140.29	3.71
51	2/17/2020 3:31	2/17/2020 3:38	0:07:29	46.90	85.32	419.89	51.19	127.90	422.01	-139.18	4.82
52	2/17/2020 3:40	2/17/2020 3:48	0:08:09	49.54	138.26	421.75	33.03	172.80	418.26	-140.18	3.82
53	2/17/2020 3:49	2/17/2020 3:49	0:00:30	31.71	174.36	418.13	30.37	175.87	418.00	-143.00	1.00
54	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	-140.56	3.44
55	2/17/2020 4:20	2/17/2020 4:22	0:02:19	-50.13	-93.83	429.20	-51.66	-80.33	428.95	-140.52	3.48
56	2/17/2020 4:23	2/17/2020 4:23	0:00:30	-51.78	-75.35	428.69	-51.75	-72.36	428.50	-140.64	3.36
57	2/17/2020 4:24	2/17/2020 4:25	0:01:20	-51.63	-69.38	428.27	-50.91	-61.56	427.52	-141.84	2.16
58	2/17/2020 4:26	2/17/2020 4:58	0:32:40	-50.50	-58.71	427.18	35.67	40.21	411.31	-138.94	5.06
59	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	-141.10	2.90
60	2/17/2020 5:07	2/17/2020 5:10	0:02:30	51.11	81.05	417.72	51.74	95.94	418.78	-140.79	3.21

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 ² /4kHz)	PFD Non- Compliance (dB)
61	2/17/2020 5:11	2/17/2020 5:11	0:00:00	51.42	101.90	419.07	51.42	101.90	419.07	-143.59	0.41
62	2/17/2020 5:16	2/17/2020 5:16	0:00:00	45.36	128.53	419.36	45.36	128.53	419.36	-143.04	0.96
63	2/17/2020 5:19	2/17/2020 5:20	0:01:01	37.44	143.40	418.67	34.94	146.84	418.42	-141.09	2.91
64	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	-142.64	1.36
65	2/17/2020 5:23	2/17/2020 5:36	0:12:40	26.90	155.91	417.67	-11.05	-174.92	419.57	-139.43	4.57
66	2/17/2020 5:38	2/17/2020 5:48	0:10:09	-16.04	-171.10	420.65	-42.88	-139.79	427.89	-141.09	2.91
67	2/17/2020 5:49	2/17/2020 5:49	0:00:00	-44.86	-135.44	428.36	-44.86	-135.44	428.36	-143.97	0.03
68	2/17/2020 5:49	2/17/2020 5:49	0:00:10	-45.78	-133.15	428.56	-46.07	-132.37	428.62	-143.64	0.36
69	2/17/2020 5:50	2/17/2020 6:02	0:11:30	-46.92	-129.98	428.79	-46.40	-66.07	424.51	-139.46	4.54
70	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	-140.36	3.64
71	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	-139.52	4.48
72	2/17/2020 6:43	2/17/2020 6:59	0:15:49	51.54	76.91	418.97	18.43	139.85	417.15	-138.80	5.20
73	2/17/2020 7:00	2/17/2020 7:02	0:02:10	16.46	141.45	417.10	9.95	146.40	417.13	-140.65	3.35
74	2/17/2020 7:03	2/17/2020 7:24	0:21:10	5.90	149.34	417.31	-49.25	-145.41	429.07	-139.33	4.67
75	2/17/2020 7:26	2/17/2020 7:26	0:00:00	-51.03	-135.18	429.10	-51.03	-135.18	429.10	-143.68	0.32
76	2/17/2020 7:29	2/17/2020 7:34	0:05:01	-51.68	-117.37	428.26	-46.53	-89.98	424.50	-139.64	4.36
77	2/17/2020 7:35	2/17/2020 7:35	0:00:39	-45.35	-86.85	423.81	-44.08	-83.86	423.09	-142.90	1.10
78	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	-140.21	3.79
79	2/17/2020 7:40	2/17/2020 7:51	0:10:40	-33.21	-66.42	417.47	-2.07	-39.75	407.33	-139.35	4.65
80	2/17/2020 7:52	2/17/2020 7:55	0:03:59	-0.03	-38.31	407.07	12.18	-29.52	406.74	-140.58	3.42
81	2/17/2020 7:56	2/17/2020 7:56	0:00:00	13.69	-28.38	406.84	13.69	-28.38	406.84	-143.28	0.72
82	2/17/2020 7:57	2/17/2020 7:57	0:00:00	15.69	-26.83	407.01	15.69	-26.83	407.01	-143.94	0.06
83	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	-140.47	3.53
84	2/17/2020 8:07	2/17/2020 8:10	0:02:40	43.75	6.58	414.15	48.36	19.28	416.14	-140.27	3.73
85	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	-139.28	4.72
86	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	-138.49	5.51
87	2/17/2020 8:50	2/17/2020 8:50	0:00:00	-34.39	159.53	425.56	-34.39	159.53	425.56	-143.93	0.07
88	2/17/2020 8:50	2/17/2020 9:05	0:14:11	-36.07	161.75	426.04	-49.89	-125.97	426.63	-139.28	4.72
89	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	-139.08	4.92
90	2/17/2020 9:46	2/17/2020 9:46	0:00:00	51.31	12.00	417.90	51.31	12.00	417.90	-143.42	0.58
91	2/17/2020 9:46	2/17/2020 9:47	0:00:31	51.61	15.95	418.19	51.74	18.93	418.39	-141.60	2.40
92	2/17/2020 9:47	2/17/2020 9:48	0:00:19	51.80	21.93	418.57	51.78	23.94	418.68	-141.07	2.93
93	2/17/2020 9:49	2/17/2020 9:52	0:02:30	51.27	32.86	419.04	48.87	46.86	419.24	-140.71	3.29
94	2/17/2020 9:52	2/17/2020 9:53	0:00:30	48.18	49.46	419.22	47.42	51.99	419.18	-142.83	1.17
95	2/17/2020 9:53	2/17/2020 10:27	0:34:00	46.03	56.03	419.08	-45.74	155.94	426.53	-139.79	4.21
96	2/17/2020 10:28	2/17/2020 10:33	0:04:51	-46.61	158.30	426.71	-51.64	-175.26	428.25	-140.94	3.06
97	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	-139.36	4.64
98	2/17/2020 11:13	2/17/2020 11:23	0:10:00	44.15	-39.68	413.48	50.43	15.68	417.70	-138.75	5.25
99	2/17/2020 11:24	2/17/2020 11:31	0:06:59	49.15	22.10	417.72	35.18	52.19	416.30	-141.51	2.49
100	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	-139.59	4.41
101	2/17/2020 12:11	2/17/2020 12:56	0:44:30	-48.12	-165.73	425.46	50.33	-7.24	417.51	-138.79	5.21
102	2/17/2020 12:57	2/17/2020 13:14	0:17:19	49.42	-2.65	417.52	6.13	54.90	414.82	-140.46	3.54
103	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	-139.61	4.39
104	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	-139.82	4.18
105	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	-140.47	3.53
106	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	-139.99	4.01
107	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	-140.88	3.12
108	2/17/2020 15:55	2/17/2020 16:00	0:04:31	50.06	-91.15	423.81	51.55	-64.70	424.29	-139.01	4.99
109	2/17/2020 16:01	2/17/2020 16:08	0:07:20	50.98	-58.84	424.15	38.87	-23.84	420.97	-140.78	3.22
110	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	-140.49	3.51
111	2/17/2020 16:42	2/17/2020 17:32	0:50:10	-50.77	81.37	429.33	51.54	-88.13	424.33	-139.03	4.97
112	2/17/2020 17:34	2/17/2020 17:37	0:03:00	50.84	-81.31	424.16	47.21	-65.22	423.22	-140.42	3.58
113	2/17/2020 17:40	2/17/2020 17:51	0:11:39	41.83	-52.49	421.80	9.98	-18.64	416.11	-140.50	3.50
114	2/17/2020 17:52	2/17/2020 18:16	0:24:10	7.96	-17.16	416.03	-51.35	62.76	429.51	-140.47	3.53
115	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	-139.05	4.95
116	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	-141.33	2.67
117	2/17/2020 19:55	2/17/2020 20:38	0:43:01	-48.30	75.76	428.36	51.52	-135.00	424.28	-139.06	4.94
118	2/17/2020 20:40	2/17/2020 20:44	0:04:29	50.66	-127.24	424.08	44.14	-104.38	422.43	-140.12	3.88
119	2/17/2020 20:58	2/17/2020 21:27	0:29:21	6.28	-63.13	416.15	-49.16	48.81	428.73	-139.65	4.35
120	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	-140.36	3.64

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 ² /4kHz)	PFD Non- Compliance (dB)
121	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	-139.07	4.93
122	2/17/2020 22:13	2/17/2020 22:27	0:14:09	50.49	-149.73	423.91	18.73	-96.17	417.02	-138.90	5.10
123	2/17/2020 22:30	2/17/2020 22:30	0:00:29	10.26	-89.59	416.28	8.74	-88.48	416.22	-142.85	1.15
124	2/17/2020 22:31	2/17/2020 23:05	0:34:00	5.70	-86.29	416.18	-40.38	47.55	425.43	-139.72	4.28
125	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	-140.37	3.63
126	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	-139.77	4.23
127	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	-139.07	4.93
128	2/18/2020 1:18	2/18/2020 1:36	0:17:30	50.29	164.31	424.06	8.09	-135.18	416.39	-139.02	4.98
129	2/18/2020 1:37	2/18/2020 1:49	0:12:00	4.53	-132.63	416.37	-30.96	-103.93	422.93	-140.54	3.46
130	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	-139.80	4.20
131	2/18/2020 2:42	2/18/2020 2:50	0:08:19	45.16	86.88	422.21	51.30	133.20	424.28	-139.39	4.61
132	2/18/2020 2:51	2/18/2020 3:28	0:36:39	50.10	141.79	424.03	-45.35	-104.45	427.67	-139.26	4.74
133	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	-141.51	2.49
134	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	-141.55	2.45
135	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	-141.51	2.49
136	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	-141.67	2.33
137	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	-141.57	2.43
138	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	-141.56	2.44
139	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	-141.67	2.33
140	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	-141.63	2.37
141	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	-141.59	2.41
142	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	-141.67	2.33
143	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	-141.64	2.36
144	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	-141.64	2.36
145	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	-141.70	2.30

Max. Exceedance: 10.96 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 ² /4kHz)	PFD Non-Compliance (dB)
1	2/15/2020 22:24	2/16/2020 23:03	24:38:40	-49.11	-2.30	270.11	51.27	-162.95	310.86	-135.54	8.46
2	2/16/2020 23:05	2/16/2020 23:09	0:03:59	49.64	-152.26	318.18	42.90	-132.42	334.77	-142.28	1.72
3	2/16/2020 23:11	2/16/2020 23:31	0:19:59	39.15	-125.67	341.79	-19.20	-74.99	412.02	-141.57	2.43
4	2/16/2020 23:33	2/16/2020 23:35	0:02:00	-26.37	-68.56	416.12	-31.82	-62.80	418.09	-143.70	0.30
5	2/16/2020 23:36	2/16/2020 23:36	0:00:00	-34.42	-59.65	418.59	-34.42	-59.65	418.59	-143.95	0.05
6	2/16/2020 23:41	2/16/2020 23:45	0:04:20	-44.93	-41.72	416.33	-50.85	-19.35	407.10	-143.34	0.66
7	2/16/2020 23:46	2/17/2020 0:34	0:48:00	-51.60	-11.54	402.90	51.24	174.18	310.97	-138.68	5.32
8	2/17/2020 0:36	2/17/2020 0:40	0:03:59	49.57	-175.15	318.29	42.78	-155.39	334.87	-142.27	1.73
9	2/17/2020 0:42	2/17/2020 1:02	0:19:50	38.21	-147.42	343.28	-19.85	-97.65	412.43	-141.59	2.41
10	2/17/2020 1:05	2/17/2020 1:07	0:01:51	-26.99	-91.16	416.41	-31.97	-85.83	418.16	-143.69	0.31
11	2/17/2020 1:08	2/17/2020 1:08	0:00:00	-34.99	-82.12	418.71	-34.99	-82.12	418.71	-143.99	0.01
12	2/17/2020 1:12	2/17/2020 1:16	0:04:20	-45.04	-64.67	416.37	-50.89	-42.23	407.09	-143.35	0.65
13	2/17/2020 1:18	2/17/2020 2:06	0:48:01	-51.62	-34.41	402.87	51.20	151.30	310.97	-138.70	5.30
14	2/17/2020 2:08	2/17/2020 2:12	0:03:59	49.51	161.95	318.28	42.66	-178.35	334.86	-142.29	1.71
15	2/17/2020 2:14	2/17/2020 2:23	0:09:01	37.66	-169.81	343.98	12.26	-144.53	380.47	-141.62	2.38
16	2/17/2020 2:23	2/17/2020 2:34	0:11:00	10.75	-143.40	382.34	-22.44	-118.63	414.02	-143.18	0.82
17	2/17/2020 2:44	2/17/2020 2:44	0:00:20	-46.09	-85.17	423.84	-46.66	-83.58	424.00	-143.55	0.45
18	2/17/2020 2:45	2/17/2020 2:45	0:00:09	-47.73	-80.30	424.29	-47.98	-79.45	424.36	-143.82	0.18
19	2/17/2020 2:46	2/17/2020 2:48	0:01:40	-49.12	-75.11	424.65	-50.83	-65.87	425.03	-143.70	0.30
20	2/17/2020 2:49	2/17/2020 2:50	0:00:50	-51.73	-55.09	425.12	-51.77	-50.09	425.04	-143.84	0.16
21	2/17/2020 2:51	2/17/2020 3:01	0:09:59	-51.69	-47.10	424.95	-35.97	0.81	418.60	-141.98	2.02
22	2/17/2020 3:03	2/17/2020 3:10	0:06:41	-30.32	7.70	416.63	-10.98	24.63	411.71	-141.41	2.59
23	2/17/2020 3:12	2/17/2020 3:19	0:06:31	-3.87	29.77	410.85	15.90	44.14	411.54	-143.18	0.82
24	2/17/2020 3:20	2/17/2020 3:28	0:08:00	20.34	47.76	412.29	41.41	72.74	418.00	-143.26	0.74
25	2/17/2020 3:28	2/17/2020 3:29	0:00:50	42.49	74.79	418.36	44.19	78.35	418.94	-143.35	0.65
26	2/17/2020 3:33	2/17/2020 3:37	0:04:20	49.50	94.77	420.85	51.73	120.00	422.01	-141.68	2.32
27	2/17/2020 3:45	2/17/2020 3:45	0:00:11	41.87	159.64	419.13	41.51	160.31	419.10	-142.75	1.25
28	2/17/2020 3:45	2/17/2020 3:45	0:00:00	40.02	162.93	418.96	40.02	162.93	418.96	-142.68	1.32
29	2/17/2020 3:46	2/17/2020 3:46	0:00:10	38.86	164.82	418.85	38.46	165.43	418.81	-142.85	1.15
30	2/17/2020 3:47	2/17/2020 3:47	0:00:00	35.60	169.53	418.52	35.60	169.53	418.52	-143.93	0.07
31	2/17/2020 3:50	2/17/2020 3:52	0:01:31	27.16	179.22	417.72	22.90	-176.77	417.42	-143.29	0.71
32	2/17/2020 3:58	2/17/2020 3:58	0:00:00	6.51	-163.89	417.32	6.51	-163.89	417.32	-143.79	0.21
33	2/17/2020 3:59	2/17/2020 3:59	0:00:00	2.44	-161.00	417.63	2.44	-161.00	417.63	-143.98	0.02
34	2/17/2020 4:02	2/17/2020 4:02	0:00:00	-8.75	-153.05	419.15	-8.75	-153.05	419.15	-143.82	0.18
35	2/17/2020 4:03	2/17/2020 4:04	0:00:20	-10.76	-151.56	419.53	-11.77	-150.82	419.74	-143.80	0.20
36	2/17/2020 4:08	2/17/2020 4:10	0:02:29	-24.04	-140.75	422.68	-30.98	-133.74	424.62	-143.12	0.88
37	2/17/2020 4:11	2/17/2020 4:12	0:01:20	-32.31	-132.21	425.00	-35.74	-127.90	425.98	-143.05	0.95
38	2/17/2020 4:13	2/17/2020 4:13	0:00:20	-37.79	-125.00	426.56	-38.59	-123.79	426.77	-143.47	0.53
39	2/17/2020 4:14	2/17/2020 4:14	0:00:00	-39.75	-121.93	427.09	-39.75	-121.93	427.09	-143.52	0.48
40	2/17/2020 4:21	2/17/2020 4:21	0:00:20	-51.21	-86.23	429.14	-51.40	-84.27	429.09	-143.01	0.99
41	2/17/2020 4:23	2/17/2020 4:23	0:00:09	-51.78	-74.35	428.63	-51.77	-73.35	428.56	-143.14	0.86
42	2/17/2020 4:27	2/17/2020 4:27	0:00:20	-49.65	-54.08	426.56	-49.26	-52.28	426.29	-142.88	1.12
43	2/17/2020 4:27	2/17/2020 4:27	0:00:09	-48.61	-49.63	425.86	-48.38	-48.77	425.71	-143.53	0.47
44	2/17/2020 4:33	2/17/2020 4:33	0:00:00	-38.30	-26.13	420.08	-38.30	-26.13	420.08	-143.97	0.03
45	2/17/2020 4:34	2/17/2020 4:35	0:00:41	-35.44	-22.05	418.63	-33.73	-19.85	417.79	-142.31	1.69
46	2/17/2020 4:39	2/17/2020 4:39	0:00:30	-22.22	-7.96	412.77	-20.77	-6.69	412.23	-143.69	0.31
47	2/17/2020 4:40	2/17/2020 4:47	0:07:10	-17.33	-3.84	411.02	4.46	12.08	406.78	-142.67	1.33
48	2/17/2020 4:49	2/17/2020 5:02	0:13:10	9.04	15.37	406.69	44.33	55.12	414.39	-141.44	2.56
49	2/17/2020 5:04	2/17/2020 5:05	0:00:39	47.81	64.62	415.88	48.76	68.06	416.33	-143.29	0.71
50	2/17/2020 5:06	2/17/2020 5:06	0:00:19	49.96	73.46	416.97	50.30	75.32	417.17	-143.17	0.83
51	2/17/2020 5:07	2/17/2020 5:08	0:00:11	51.22	82.03	417.81	51.31	83.00	417.89	-143.28	0.72
52	2/17/2020 5:20	2/17/2020 5:20	0:00:00	37.03	143.99	418.63	37.03	143.99	418.63	-143.73	0.27
53	2/17/2020 5:20	2/17/2020 5:20	0:00:09	35.79	145.72	418.50	35.37	146.28	418.46	-143.59	0.41
54	2/17/2020 5:25	2/17/2020 5:25	0:00:11	22.63	159.91	417.37	22.15	160.34	417.34	-143.53	0.47
55	2/17/2020 5:26	2/17/2020 5:26	0:00:20	20.70	161.60	417.27	19.72	162.42	417.22	-143.51	0.49
56	2/17/2020 5:30	2/17/2020 5:30	0:00:09	8.25	171.29	417.21	7.74	171.65	417.23	-143.71	0.29
57	2/17/2020 5:31	2/17/2020 5:33	0:02:40	5.21	173.48	417.38	-2.94	179.23	418.21	-141.93	2.07
58	2/17/2020 5:40	2/17/2020 5:40	0:00:39	-21.43	-166.65	421.98	-23.36	-164.95	422.49	-143.75	0.25
59	2/17/2020 5:42	2/17/2020 5:43	0:01:19	-27.59	-160.91	423.65	-31.23	-157.03	424.69	-143.59	0.41
60	2/17/2020 5:48	2/17/2020 5:48	0:00:00	-42.53	-140.49	427.81	-42.53	-140.49	427.81	-143.92	0.08

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 ² /4kHz)	PFD Non-Compliance (dB)
61	2/17/2020 5:52	2/17/2020 5:52	0:00:00	-50.06	-117.81	429.20	-50.06	-117.81	429.20	-143.86	0.14
62	2/17/2020 5:53	2/17/2020 5:54	0:01:01	-50.54	-115.01	429.21	-51.27	-109.25	429.13	-141.96	2.04
63	2/17/2020 5:57	2/17/2020 5:57	0:00:00	-51.29	-88.45	427.86	-51.29	-88.45	427.86	-143.90	0.10
64	2/17/2020 5:58	2/17/2020 6:03	0:04:50	-50.97	-85.55	427.57	-44.26	-60.71	423.28	-143.24	0.76
65	2/17/2020 6:06	2/17/2020 6:07	0:00:41	-36.84	-47.60	419.33	-35.17	-45.33	418.49	-143.44	0.56
66	2/17/2020 6:07	2/17/2020 6:08	0:00:31	-33.46	-43.15	417.66	-32.14	-41.58	417.03	-143.63	0.37
67	2/17/2020 6:09	2/17/2020 6:21	0:12:10	-29.45	-38.57	415.79	6.83	-9.88	406.68	-142.86	1.14
68	2/17/2020 6:23	2/17/2020 6:24	0:01:10	12.90	-5.41	406.82	16.40	-2.70	407.11	-143.19	0.81
69	2/17/2020 6:26	2/17/2020 6:28	0:01:50	20.83	0.95	407.71	26.11	5.75	408.72	-143.54	0.46
70	2/17/2020 6:30	2/17/2020 6:31	0:00:50	32.94	13.09	410.46	35.10	15.80	411.11	-143.47	0.53
71	2/17/2020 6:32	2/17/2020 6:33	0:01:40	37.18	18.66	411.77	41.08	24.91	413.12	-143.40	0.60
72	2/17/2020 6:35	2/17/2020 6:35	0:00:30	44.23	31.20	414.32	45.18	33.44	414.71	-143.76	0.24
73	2/17/2020 6:37	2/17/2020 6:44	0:07:01	47.98	41.51	415.93	51.08	81.81	419.16	-141.67	2.33
74	2/17/2020 6:47	2/17/2020 6:50	0:02:41	47.46	99.02	419.40	42.52	111.20	419.11	-141.30	2.70
75	2/17/2020 6:52	2/17/2020 6:53	0:01:00	37.18	120.14	418.61	34.68	123.55	418.36	-143.58	0.42
76	2/17/2020 6:58	2/17/2020 6:59	0:00:51	22.33	136.54	417.33	19.90	138.63	417.21	-143.10	0.90
77	2/17/2020 7:01	2/17/2020 7:01	0:00:11	12.97	144.15	417.07	12.47	144.53	417.08	-143.15	0.85
78	2/17/2020 7:02	2/17/2020 7:02	0:00:00	10.45	146.03	417.11	10.45	146.03	417.11	-143.61	0.39
79	2/17/2020 7:04	2/17/2020 7:04	0:00:09	2.33	151.86	417.59	1.83	152.22	417.64	-143.54	0.46
80	2/17/2020 7:05	2/17/2020 7:06	0:01:09	-0.21	153.66	417.85	-3.78	156.17	418.31	-142.43	1.57
81	2/17/2020 7:07	2/17/2020 7:10	0:02:10	-7.33	158.71	418.86	-13.88	163.56	420.14	-142.26	1.74
82	2/17/2020 7:10	2/17/2020 7:13	0:02:21	-15.37	164.72	420.47	-22.23	170.39	422.16	-142.72	1.28
83	2/17/2020 7:13	2/17/2020 7:13	0:00:00	-25.09	173.00	422.93	-25.09	173.00	422.93	-143.98	0.02
84	2/17/2020 7:14	2/17/2020 7:18	0:03:20	-26.97	174.81	423.44	-35.84	-175.00	425.96	-141.83	2.17
85	2/17/2020 7:18	2/17/2020 7:20	0:01:50	-38.28	-171.50	426.64	-42.42	-164.39	427.72	-142.94	1.06
86	2/17/2020 7:22	2/17/2020 7:23	0:01:29	-45.38	-157.85	428.41	-47.88	-150.62	428.89	-143.46	0.54
87	2/17/2020 7:31	2/17/2020 7:32	0:00:39	-50.63	-106.66	427.20	-50.00	-102.92	426.71	-142.14	1.86
88	2/17/2020 7:32	2/17/2020 7:32	0:00:00	-49.23	-99.30	426.18	-49.23	-99.30	426.18	-143.97	0.03
89	2/17/2020 7:34	2/17/2020 7:34	0:00:00	-46.53	-89.98	424.50	-46.53	-89.98	424.50	-143.51	0.49
90	2/17/2020 7:37	2/17/2020 7:37	0:00:00	-41.66	-78.95	421.76	-41.66	-78.95	421.76	-142.71	1.29
91	2/17/2020 7:40	2/17/2020 7:40	0:00:00	-34.93	-68.58	418.30	-34.93	-68.58	418.30	-143.20	0.80
92	2/17/2020 7:40	2/17/2020 7:41	0:00:30	-33.65	-66.95	417.67	-32.33	-65.37	417.05	-141.85	2.15
93	2/17/2020 7:41	2/17/2020 7:41	0:00:21	-31.00	-63.84	416.42	-30.10	-62.84	416.01	-143.45	0.55
94	2/17/2020 7:45	2/17/2020 7:45	0:00:09	-20.67	-53.82	412.11	-20.18	-53.40	411.94	-142.89	1.11
95	2/17/2020 7:53	2/17/2020 7:54	0:00:21	5.59	-34.33	406.67	6.61	-33.60	406.64	-143.33	0.67
96	2/17/2020 7:55	2/17/2020 7:55	0:00:09	9.15	-31.77	406.63	9.66	-31.39	406.64	-143.08	0.92
97	2/17/2020 7:58	2/17/2020 7:59	0:00:59	19.16	-24.03	407.43	22.08	-21.53	407.90	-143.06	0.94
98	2/17/2020 8:00	2/17/2020 8:01	0:00:50	24.96	-18.92	408.46	27.31	-16.63	408.98	-142.99	1.01
99	2/17/2020 8:02	2/17/2020 8:03	0:00:50	30.53	-13.26	409.79	32.75	-10.71	410.41	-143.19	0.81
100	2/17/2020 8:04	2/17/2020 8:04	0:00:49	35.34	-7.45	411.19	37.42	-4.57	411.86	-143.15	0.85
101	2/17/2020 8:05	2/17/2020 8:06	0:00:41	39.40	-1.52	412.54	40.92	1.05	413.08	-142.97	1.03
102	2/17/2020 8:07	2/17/2020 8:08	0:00:11	43.75	6.58	414.15	44.09	7.31	414.29	-143.48	0.52
103	2/17/2020 8:08	2/17/2020 8:08	0:00:09	45.05	9.55	414.68	45.36	10.31	414.81	-143.22	0.78
104	2/17/2020 8:09	2/17/2020 8:11	0:02:01	46.25	12.65	415.18	49.25	22.80	416.59	-142.77	1.23
105	2/17/2020 8:12	2/17/2020 8:13	0:00:50	50.79	31.15	417.49	51.35	35.99	417.92	-142.82	1.18
106	2/17/2020 8:14	2/17/2020 8:17	0:02:51	51.64	39.94	418.23	51.23	56.85	419.16	-141.78	2.22
107	2/17/2020 8:18	2/17/2020 8:32	0:14:41	50.31	63.55	419.36	16.67	117.71	417.15	-140.99	3.01
108	2/17/2020 8:33	2/17/2020 8:34	0:00:50	14.68	119.27	417.13	12.18	121.18	417.13	-142.55	1.45
109	2/17/2020 8:34	2/17/2020 8:35	0:00:41	10.17	122.67	417.17	8.14	124.15	417.25	-143.44	0.56
110	2/17/2020 8:36	2/17/2020 8:36	0:00:00	6.62	125.25	417.32	6.62	125.25	417.32	-143.77	0.23
111	2/17/2020 8:36	2/17/2020 8:37	0:00:41	5.10	126.34	417.42	3.06	127.78	417.57	-143.35	0.65
112	2/17/2020 8:40	2/17/2020 8:40	0:00:00	-6.61	134.62	418.79	-6.61	134.62	418.79	-143.91	0.09
113	2/17/2020 8:41	2/17/2020 8:42	0:01:21	-9.65	136.82	419.32	-13.66	139.83	420.13	-143.25	0.75
114	2/17/2020 8:44	2/17/2020 8:45	0:01:10	-18.62	143.75	421.27	-22.02	146.64	422.13	-143.37	0.63
115	2/17/2020 8:56	2/17/2020 8:56	0:00:19	-46.99	-177.03	428.74	-47.52	-175.38	428.84	-143.70	0.30
116	2/17/2020 8:59	2/17/2020 9:01	0:02:30	-50.98	-159.16	429.11	-51.78	-144.36	428.50	-142.52	1.48
117	2/17/2020 9:03	2/17/2020 9:04	0:01:40	-51.37	-136.44	427.86	-50.07	-126.89	426.76	-141.77	2.23
118	2/17/2020 9:05	2/17/2020 9:08	0:02:30	-48.67	-120.60	425.81	-44.54	-108.49	423.34	-141.63	2.37
119	2/17/2020 9:10	2/17/2020 9:34	0:24:30	-41.08	-101.48	421.45	29.42	-38.03	409.52	-141.58	2.42
120	2/17/2020 9:35	2/17/2020 9:35	0:00:29	30.78	-36.55	409.88	32.12	-35.02	410.25	-143.48	0.52

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 ² /4kHz)	PFD Non-Compliance (dB)
121	2/17/2020 9:36	2/17/2020 9:36	0:00:00	33.87	-32.91	410.76	33.87	-32.91	410.76	-143.81	0.19
122	2/17/2020 9:38	2/17/2020 9:39	0:00:39	39.23	-25.36	412.51	40.76	-22.80	413.05	-143.29	0.71
123	2/17/2020 9:39	2/17/2020 9:40	0:00:20	42.22	-20.11	413.60	42.92	-18.72	413.87	-143.62	0.38
124	2/17/2020 9:41	2/17/2020 9:42	0:01:00	44.59	-15.10	414.53	46.41	-10.46	415.29	-142.62	1.38
125	2/17/2020 9:42	2/17/2020 9:43	0:00:41	47.24	-8.03	415.66	48.26	-4.66	416.13	-142.74	1.26
126	2/17/2020 9:43	2/17/2020 9:43	0:00:00	48.94	-2.04	416.47	48.94	-2.04	416.47	-143.74	0.26
127	2/17/2020 9:47	2/17/2020 9:47	0:00:00	51.79	22.94	418.62	51.79	22.94	418.62	-143.57	0.43
128	2/17/2020 9:50	2/17/2020 9:51	0:00:59	50.38	39.58	419.19	49.29	45.09	419.24	-143.21	0.79
129	2/17/2020 9:54	2/17/2020 9:59	0:05:30	45.43	57.59	419.03	32.89	78.63	417.54	-142.29	1.71
130	2/17/2020 10:04	2/17/2020 10:09	0:05:41	20.81	90.73	416.29	3.79	103.70	416.11	-143.05	0.95
131	2/17/2020 10:13	2/17/2020 10:18	0:05:00	-8.43	112.37	417.46	-23.27	124.19	420.60	-143.10	0.90
132	2/17/2020 10:19	2/17/2020 10:20	0:00:50	-25.65	126.39	421.22	-27.98	128.69	421.84	-143.23	0.77
133	2/17/2020 10:26	2/17/2020 10:27	0:01:29	-42.13	147.92	425.69	-45.13	154.40	426.40	-143.17	0.83
134	2/17/2020 10:29	2/17/2020 10:29	0:00:20	-48.17	163.27	427.00	-48.64	164.99	427.07	-143.61	0.39
135	2/17/2020 10:30	2/17/2020 10:32	0:01:30	-49.87	170.35	428.27	-51.16	178.85	428.35	-143.44	0.56
136	2/17/2020 10:34	2/17/2020 10:46	0:12:09	-51.79	-170.28	428.07	-32.68	-112.92	417.36	-142.13	1.87
137	2/17/2020 10:48	2/17/2020 10:55	0:06:20	-26.31	-106.09	414.56	-7.58	-90.81	408.52	-141.86	2.14
138	2/17/2020 10:57	2/17/2020 11:03	0:06:20	0.07	-85.37	407.24	19.25	-71.08	407.33	-143.07	0.93
139	2/17/2020 11:04	2/17/2020 11:15	0:10:11	22.17	-68.58	407.73	46.87	-32.71	414.50	-143.15	0.85
140	2/17/2020 11:17	2/17/2020 11:21	0:04:00	50.04	-20.51	415.88	51.71	3.01	417.39	-141.25	2.75
141	2/17/2020 11:35	2/17/2020 11:38	0:03:29	25.27	63.14	415.28	15.05	71.85	414.78	-142.96	1.04
142	2/17/2020 11:40	2/17/2020 11:44	0:03:39	9.02	76.38	414.86	-2.18	84.34	415.87	-142.95	1.05
143	2/17/2020 11:49	2/17/2020 11:51	0:01:21	-18.77	96.74	419.33	-22.65	100.07	420.42	-143.83	0.17
144	2/17/2020 11:54	2/17/2020 11:54	0:00:30	-31.47	108.89	423.12	-32.79	110.43	423.54	-143.87	0.13
145	2/17/2020 12:01	2/17/2020 12:02	0:00:41	-47.60	137.76	427.95	-48.57	141.16	428.16	-143.79	0.21
146	2/17/2020 12:03	2/17/2020 12:05	0:01:20	-49.99	147.42	428.41	-51.13	154.99	428.49	-143.33	0.67
147	2/17/2020 12:06	2/17/2020 12:19	0:12:10	-51.79	166.84	428.20	-32.38	-136.13	417.46	-142.09	1.91
148	2/17/2020 12:21	2/17/2020 12:24	0:03:11	-25.52	-128.89	414.47	-16.29	-120.93	411.09	-142.01	1.99
149	2/17/2020 12:25	2/17/2020 12:28	0:02:01	-12.80	-118.22	410.03	-6.73	-113.75	408.54	-143.38	0.62
150	2/17/2020 12:30	2/17/2020 12:36	0:06:20	0.93	-108.33	407.31	20.07	-93.96	407.52	-142.98	1.02
151	2/17/2020 12:37	2/17/2020 12:47	0:10:01	22.98	-91.42	407.94	47.05	-55.72	414.48	-143.15	0.85
152	2/17/2020 12:50	2/17/2020 12:53	0:03:50	50.16	-43.44	415.81	51.72	-20.87	417.21	-141.29	2.71
153	2/17/2020 12:58	2/17/2020 12:58	0:00:39	48.33	1.76	417.49	47.33	5.14	417.42	-143.60	0.40
154	2/17/2020 13:08	2/17/2020 13:11	0:03:19	24.95	39.88	415.03	15.20	48.16	414.57	-142.96	1.04
155	2/17/2020 13:13	2/17/2020 13:17	0:03:40	8.16	53.44	414.71	-3.04	61.38	415.82	-142.94	1.06
156	2/17/2020 13:21	2/17/2020 13:21	0:00:00	-13.66	69.13	417.90	-13.66	69.13	417.90	-143.98	0.02
157	2/17/2020 13:21	2/17/2020 13:22	0:00:59	-15.15	70.28	418.26	-18.12	72.65	419.03	-143.05	0.95
158	2/17/2020 13:32	2/17/2020 13:32	0:00:09	-42.96	102.45	426.76	-43.31	103.16	426.88	-143.91	0.09
159	2/17/2020 13:32	2/17/2020 13:32	0:00:20	-44.30	105.33	427.23	-44.94	106.82	427.45	-143.64	0.36
160	2/17/2020 13:34	2/17/2020 13:35	0:00:31	-48.03	115.62	428.53	-48.73	118.21	428.77	-143.86	0.14
161	2/17/2020 13:36	2/17/2020 13:37	0:00:50	-50.11	124.50	429.24	-50.86	129.21	429.49	-143.23	0.77
162	2/17/2020 13:40	2/17/2020 13:46	0:05:39	-51.70	147.96	429.72	-45.47	178.56	427.43	-142.11	1.89
163	2/17/2020 13:48	2/17/2020 13:51	0:03:19	-40.71	-171.51	425.68	-32.54	-159.87	422.77	-143.88	0.12
164	2/17/2020 13:54	2/17/2020 13:57	0:02:49	-24.28	-151.28	420.12	-16.00	-144.25	417.95	-142.32	1.68
165	2/17/2020 13:58	2/17/2020 14:00	0:01:40	-12.00	-141.18	417.12	-6.95	-137.48	416.30	-143.56	0.44
166	2/17/2020 14:03	2/17/2020 14:09	0:05:30	3.24	-130.27	415.47	19.80	-117.76	416.52	-143.29	0.71
167	2/17/2020 14:09	2/17/2020 14:09	0:00:00	21.26	-116.51	416.79	21.26	-116.51	416.79	-143.09	0.91
168	2/17/2020 14:11	2/17/2020 14:18	0:06:50	25.10	-113.06	417.47	42.45	-90.39	421.66	-143.34	0.66
169	2/17/2020 14:19	2/17/2020 14:20	0:00:59	44.47	-86.09	422.23	46.30	-81.48	422.75	-143.42	0.58
170	2/17/2020 14:23	2/17/2020 14:26	0:03:41	50.37	-65.85	423.91	51.71	-44.24	424.34	-141.48	2.52
171	2/17/2020 14:30	2/17/2020 14:31	0:00:50	48.29	-21.66	423.47	47.02	-17.48	423.13	-143.50	0.50
172	2/17/2020 14:41	2/17/2020 14:44	0:03:19	24.42	16.80	417.72	14.65	25.01	416.35	-143.01	0.99
173	2/17/2020 14:46	2/17/2020 14:50	0:03:31	7.10	30.63	415.92	-3.60	38.20	416.34	-142.97	1.03
174	2/17/2020 14:55	2/17/2020 14:57	0:01:20	-19.65	50.33	419.22	-23.52	53.70	420.26	-143.84	0.16
175	2/17/2020 15:00	2/17/2020 15:00	0:00:30	-32.28	62.67	422.97	-33.59	64.25	423.41	-143.87	0.13
176	2/17/2020 15:07	2/17/2020 15:08	0:00:20	-48.30	93.01	428.54	-48.76	94.74	428.70	-143.92	0.08
177	2/17/2020 15:09	2/17/2020 15:10	0:00:50	-50.14	101.05	429.17	-50.88	105.76	429.41	-143.29	0.71
178	2/17/2020 15:13	2/17/2020 15:18	0:05:11	-51.69	124.52	429.65	-46.32	152.75	427.68	-142.16	1.84
179	2/17/2020 15:21	2/17/2020 15:24	0:03:20	-40.28	165.64	425.48	-32.03	177.14	422.57	-143.88	0.12
180	2/17/2020 15:28	2/17/2020 15:30	0:02:30	-23.25	-173.93	419.82	-15.93	-167.78	417.94	-142.49	1.51

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 ² /4kHz)	PFD Non-Compliance (dB)
181	2/17/2020 15:32	2/17/2020 15:33	0:01:29	-10.92	-163.96	416.93	-6.37	-160.65	416.23	-143.56	0.44
182	2/17/2020 15:37	2/17/2020 15:40	0:03:00	4.33	-153.08	415.48	13.44	-146.42	415.82	-143.36	0.64
183	2/17/2020 15:40	2/17/2020 15:42	0:01:49	14.94	-145.27	415.96	20.36	-140.87	416.64	-143.64	0.36
184	2/17/2020 15:44	2/17/2020 15:50	0:06:50	25.17	-136.58	417.47	42.50	-113.87	421.67	-143.34	0.66
185	2/17/2020 15:51	2/17/2020 15:53	0:01:10	44.52	-109.56	422.24	46.63	-104.15	422.83	-143.37	0.63
186	2/17/2020 15:56	2/17/2020 15:59	0:03:31	50.54	-88.35	423.95	51.71	-67.67	424.33	-141.51	2.49
187	2/17/2020 16:03	2/17/2020 16:04	0:01:09	48.49	-45.98	423.51	46.70	-40.13	423.04	-143.28	0.72
188	2/17/2020 16:06	2/17/2020 16:08	0:02:10	43.29	-31.79	422.13	38.48	-23.22	420.87	-143.67	0.33
189	2/17/2020 16:09	2/17/2020 16:10	0:00:41	36.04	-19.69	420.25	34.35	-17.46	419.84	-143.83	0.17
190	2/17/2020 16:10	2/17/2020 16:11	0:00:11	32.61	-15.33	419.43	32.17	-14.81	419.33	-143.88	0.12
191	2/17/2020 16:14	2/17/2020 16:17	0:03:09	23.87	-6.28	417.62	14.58	1.48	416.34	-143.01	0.99
192	2/17/2020 16:19	2/17/2020 16:23	0:03:31	6.51	7.46	415.91	-4.19	15.03	416.40	-142.99	1.01
193	2/17/2020 16:28	2/17/2020 16:30	0:01:20	-20.21	27.22	419.35	-24.07	30.61	420.40	-143.83	0.17
194	2/17/2020 16:33	2/17/2020 16:33	0:00:29	-32.78	39.68	423.12	-34.09	41.28	423.55	-143.87	0.13
195	2/17/2020 16:40	2/17/2020 16:41	0:00:11	-48.57	70.42	428.59	-48.80	71.29	428.67	-143.96	0.04
196	2/17/2020 16:42	2/17/2020 16:43	0:00:41	-50.33	78.54	429.19	-50.90	82.32	429.37	-143.27	0.73
197	2/17/2020 16:46	2/17/2020 16:51	0:05:01	-51.69	101.09	429.59	-46.56	128.49	427.69	-142.19	1.81
198	2/17/2020 16:54	2/17/2020 16:57	0:03:20	-39.85	142.80	425.24	-31.52	154.14	422.32	-143.87	0.13
199	2/17/2020 17:00	2/17/2020 17:03	0:02:31	-22.70	162.98	419.58	-15.35	169.08	417.74	-142.63	1.37
200	2/17/2020 17:05	2/17/2020 17:06	0:01:29	-10.34	172.88	416.76	-5.78	176.19	416.09	-143.57	0.43
201	2/17/2020 17:10	2/17/2020 17:13	0:03:00	4.92	-176.25	415.42	14.02	-169.57	415.83	-143.43	0.57
202	2/17/2020 17:13	2/17/2020 17:15	0:01:49	15.51	-168.40	415.98	20.92	-163.98	416.70	-143.63	0.37
203	2/17/2020 17:17	2/17/2020 17:23	0:06:50	25.71	-159.64	417.55	42.90	-136.65	421.79	-143.34	0.66
204	2/17/2020 17:25	2/17/2020 17:26	0:01:09	44.89	-132.29	422.35	46.95	-126.80	422.94	-143.39	0.61
205	2/17/2020 17:29	2/17/2020 17:32	0:03:29	50.57	-111.79	423.98	51.71	-91.11	424.36	-141.53	2.47
206	2/17/2020 17:36	2/17/2020 17:37	0:01:40	48.69	-70.30	423.61	46.09	-62.00	422.93	-142.92	1.08
207	2/17/2020 17:38	2/17/2020 17:44	0:05:49	44.56	-58.17	422.52	30.77	-36.79	419.09	-143.11	0.89
208	2/17/2020 17:47	2/17/2020 17:49	0:02:19	23.32	-29.37	417.61	16.49	-23.60	416.63	-143.00	1.00
209	2/17/2020 17:49	2/17/2020 17:50	0:00:11	15.00	-22.43	416.48	14.50	-22.04	416.43	-143.96	0.04
210	2/17/2020 17:53	2/17/2020 17:56	0:03:29	5.42	-15.34	415.99	-5.28	-7.77	416.61	-142.97	1.03
211	2/17/2020 18:01	2/17/2020 18:03	0:01:20	-20.77	4.11	419.57	-24.62	7.54	420.62	-143.81	0.19
212	2/17/2020 18:06	2/17/2020 18:06	0:00:20	-33.29	16.70	423.33	-34.15	17.78	423.62	-143.87	0.13
213	2/17/2020 18:15	2/17/2020 18:16	0:00:50	-50.35	55.09	429.19	-51.04	59.84	429.41	-143.27	0.73
214	2/17/2020 18:19	2/17/2020 18:23	0:04:49	-51.68	77.65	429.56	-46.80	104.22	427.73	-142.16	1.84
215	2/17/2020 18:27	2/17/2020 18:30	0:03:20	-39.40	119.94	425.00	-31.01	131.14	422.06	-143.87	0.13
216	2/17/2020 18:33	2/17/2020 18:36	0:02:31	-22.15	139.89	419.34	-14.78	145.95	417.53	-142.74	1.26
217	2/17/2020 18:38	2/17/2020 18:39	0:01:20	-9.25	150.10	416.50	-5.20	153.02	415.95	-143.62	0.38
218	2/17/2020 18:43	2/17/2020 18:46	0:02:51	6.02	160.95	415.35	14.59	167.29	415.82	-143.50	0.50
219	2/17/2020 18:46	2/17/2020 18:48	0:01:49	16.08	168.46	415.98	21.48	172.92	416.74	-143.61	0.39
220	2/17/2020 18:50	2/17/2020 18:56	0:06:41	26.25	177.30	417.62	42.95	-160.12	421.80	-143.34	0.66
221	2/17/2020 18:57	2/17/2020 18:59	0:01:20	44.93	-155.75	422.37	47.26	-149.44	423.04	-143.32	0.68
222	2/17/2020 19:01	2/17/2020 19:05	0:03:21	50.73	-134.28	424.07	51.70	-114.54	424.41	-141.55	2.45
223	2/17/2020 19:07	2/17/2020 19:07	0:00:00	50.39	-101.91	424.11	50.39	-101.91	424.11	-143.95	0.05
224	2/17/2020 19:08	2/17/2020 19:17	0:08:51	48.88	-94.63	423.73	29.80	-59.31	418.96	-142.53	1.47
225	2/17/2020 19:20	2/17/2020 19:22	0:02:19	22.77	-52.46	417.61	15.92	-46.73	416.68	-142.99	1.01
226	2/17/2020 19:26	2/17/2020 19:29	0:03:29	4.83	-38.51	416.12	-5.87	-30.94	416.81	-142.95	1.05
227	2/17/2020 19:34	2/17/2020 19:36	0:01:21	-21.33	-19.00	419.85	-25.16	-15.54	420.92	-143.83	0.17
228	2/17/2020 19:39	2/17/2020 19:39	0:00:30	-33.35	-6.80	423.49	-34.64	-5.18	423.92	-143.89	0.11
229	2/17/2020 19:47	2/17/2020 19:48	0:00:50	-50.37	31.64	429.31	-51.05	36.40	429.53	-143.28	0.72
230	2/17/2020 19:51	2/17/2020 19:56	0:04:51	-51.67	54.21	429.65	-46.76	80.75	427.78	-142.10	1.90
231	2/17/2020 20:00	2/17/2020 20:03	0:03:09	-38.96	97.06	424.87	-30.94	107.63	422.03	-143.86	0.14
232	2/17/2020 20:05	2/17/2020 20:05	0:00:19	-25.89	112.86	420.40	-24.95	113.76	420.12	-143.93	0.07
233	2/17/2020 20:07	2/17/2020 20:09	0:02:19	-21.11	117.20	419.02	-14.21	122.80	417.35	-142.82	1.18
234	2/17/2020 20:11	2/17/2020 20:12	0:01:20	-8.68	126.93	416.33	-4.61	129.85	415.80	-143.60	0.40
235	2/17/2020 20:16	2/17/2020 20:18	0:02:40	6.60	137.78	415.25	14.66	143.77	415.71	-143.56	0.44
236	2/17/2020 20:19	2/17/2020 20:21	0:01:49	16.65	145.33	415.92	22.04	149.82	416.70	-143.61	0.39
237	2/17/2020 20:23	2/17/2020 20:29	0:06:31	26.79	154.24	417.59	43.00	176.40	421.67	-143.34	0.66
238	2/17/2020 20:30	2/17/2020 20:31	0:01:10	45.29	-178.47	422.33	47.30	-172.91	422.91	-143.37	0.63
239	2/17/2020 20:34	2/17/2020 20:38	0:03:11	50.88	-156.76	423.99	51.69	-137.97	424.31	-141.56	2.44
240	2/17/2020 20:40	2/17/2020 20:40	0:00:09	50.36	-125.35	424.01	50.20	-124.42	423.97	-143.39	0.61

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 ² /4kHz)	PFD Non-Compliance (dB)
241	2/17/2020 20:41	2/17/2020 20:50	0:09:09	48.84	-118.08	423.64	28.81	-81.86	418.74	-141.83	2.17
242	2/17/2020 20:53	2/17/2020 20:55	0:02:19	22.22	-75.55	417.53	15.35	-69.87	416.64	-142.97	1.03
243	2/17/2020 20:59	2/17/2020 21:02	0:03:31	3.74	-61.32	416.17	-6.96	-53.75	417.00	-142.95	1.05
244	2/17/2020 21:07	2/17/2020 21:08	0:01:10	-21.89	-42.10	420.08	-25.23	-39.06	421.02	-143.85	0.15
245	2/17/2020 21:12	2/17/2020 21:12	0:00:19	-33.85	-29.77	423.74	-34.70	-28.69	424.03	-143.91	0.09
246	2/17/2020 21:20	2/17/2020 21:21	0:00:50	-50.55	9.13	429.45	-51.18	13.92	429.64	-143.24	0.76
247	2/17/2020 21:24	2/17/2020 21:29	0:04:50	-51.67	30.77	429.72	-46.72	57.28	427.81	-142.15	1.85
248	2/17/2020 21:33	2/17/2020 21:36	0:03:20	-38.90	73.57	424.87	-30.43	84.61	421.86	-143.85	0.15
249	2/17/2020 21:38	2/17/2020 21:39	0:00:41	-25.82	89.34	420.36	-23.93	91.12	419.79	-143.85	0.15
250	2/17/2020 21:40	2/17/2020 21:42	0:02:19	-20.55	94.10	418.83	-13.64	99.66	417.17	-142.86	1.14
251	2/17/2020 21:44	2/17/2020 21:45	0:01:10	-7.59	104.14	416.10	-4.03	106.68	415.66	-143.60	0.40
252	2/17/2020 21:49	2/17/2020 21:51	0:02:40	7.18	114.62	415.16	15.23	120.63	415.65	-143.62	0.38
253	2/17/2020 21:52	2/17/2020 21:54	0:01:50	17.22	122.20	415.88	22.59	126.73	416.67	-143.62	0.38
254	2/17/2020 21:56	2/17/2020 22:02	0:06:20	27.33	131.18	417.57	43.06	152.92	421.54	-143.34	0.66
255	2/17/2020 22:03	2/17/2020 22:04	0:01:19	45.34	158.06	422.19	47.60	164.46	422.85	-143.31	0.69
256	2/17/2020 22:07	2/17/2020 22:10	0:03:00	51.02	-179.24	423.88	51.68	-161.41	424.17	-141.57	2.43
257	2/17/2020 22:13	2/17/2020 22:13	0:00:20	50.17	-147.86	423.84	49.82	-146.02	423.75	-143.67	0.33
258	2/17/2020 22:14	2/17/2020 22:24	0:09:31	48.81	-141.53	423.51	27.82	-104.42	418.50	-141.40	2.60
259	2/17/2020 22:26	2/17/2020 22:28	0:02:30	21.66	-98.64	417.43	14.27	-92.62	416.54	-143.00	1.00
260	2/17/2020 22:32	2/17/2020 22:35	0:03:30	3.15	-84.48	416.22	-7.54	-76.91	417.14	-142.98	1.02
261	2/17/2020 22:40	2/17/2020 22:41	0:00:20	-22.44	-65.19	420.29	-23.40	-64.33	420.56	-143.87	0.13
262	2/17/2020 22:41	2/17/2020 22:41	0:00:19	-24.83	-63.02	420.96	-25.77	-62.12	421.24	-143.93	0.07
263	2/17/2020 22:45	2/17/2020 22:45	0:00:20	-34.34	-52.73	423.96	-35.19	-51.64	424.25	-143.90	0.10
264	2/17/2020 22:53	2/17/2020 22:54	0:01:01	-50.57	-14.30	429.48	-51.30	-8.54	429.70	-143.19	0.81
265	2/17/2020 22:57	2/17/2020 23:02	0:05:00	-51.66	7.34	429.73	-46.39	34.62	427.70	-142.22	1.78
266	2/17/2020 23:03	2/17/2020 23:03	0:00:00	-45.51	36.97	427.36	-45.51	36.97	427.36	-144.00	0.00
267	2/17/2020 23:06	2/17/2020 23:09	0:03:30	-38.45	50.69	424.71	-29.45	62.08	421.53	-143.84	0.16
268	2/17/2020 23:11	2/17/2020 23:12	0:01:10	-25.75	65.82	420.34	-22.41	68.89	419.34	-143.81	0.19
269	2/17/2020 23:13	2/17/2020 23:15	0:02:30	-19.99	70.99	418.67	-12.56	76.89	416.94	-142.87	1.13
270	2/17/2020 23:17	2/17/2020 23:18	0:01:10	-7.00	80.97	416.00	-3.44	83.51	415.57	-143.60	0.40
271	2/17/2020 23:22	2/17/2020 23:25	0:02:41	7.76	91.45	415.16	15.81	97.49	415.72	-143.69	0.31
272	2/17/2020 23:25	2/17/2020 23:27	0:01:50	17.79	99.07	415.96	23.14	103.64	416.79	-143.63	0.37
273	2/17/2020 23:29	2/17/2020 23:35	0:06:11	27.86	108.14	417.72	43.11	129.44	421.66	-143.35	0.65
274	2/17/2020 23:36	2/17/2020 23:37	0:01:20	45.68	135.37	422.41	47.89	141.85	423.06	-143.41	0.59
275	2/17/2020 23:39	2/17/2020 23:39	0:00:00	49.84	149.78	423.66	49.84	149.78	423.66	-143.95	0.05
276	2/17/2020 23:41	2/17/2020 23:43	0:02:40	51.25	159.26	424.10	51.67	175.16	424.32	-141.61	2.39
277	2/17/2020 23:46	2/17/2020 23:57	0:11:00	49.97	-170.38	423.95	26.35	-126.55	418.37	-141.49	2.51
278	2/17/2020 23:59	2/18/2020 0:01	0:02:40	21.10	-121.75	417.49	13.20	-115.38	416.59	-143.05	0.95
279	2/18/2020 0:05	2/18/2020 0:08	0:03:30	2.57	-107.66	416.36	-8.12	-100.07	417.34	-143.01	0.99
280	2/18/2020 0:13	2/18/2020 0:14	0:00:19	-22.99	-88.29	420.54	-23.95	-87.42	420.81	-143.89	0.11
281	2/18/2020 0:14	2/18/2020 0:14	0:00:09	-25.84	-85.64	421.36	-26.31	-85.19	421.50	-143.93	0.07
282	2/18/2020 0:18	2/18/2020 0:18	0:00:20	-34.83	-75.69	424.21	-35.67	-74.58	424.50	-143.92	0.08
283	2/18/2020 0:26	2/18/2020 0:27	0:00:59	-50.59	-37.76	429.54	-51.31	-31.99	429.75	-143.18	0.82
284	2/18/2020 0:30	2/18/2020 0:36	0:05:50	-51.65	-16.11	429.76	-44.85	15.01	427.11	-142.27	1.73
285	2/18/2020 0:39	2/18/2020 0:42	0:03:30	-37.99	27.79	424.53	-28.93	39.05	421.34	-143.83	0.17
286	2/18/2020 0:44	2/18/2020 0:45	0:01:31	-25.21	42.75	420.15	-20.89	46.63	418.89	-143.78	0.22
287	2/18/2020 0:46	2/18/2020 0:48	0:02:30	-19.43	47.87	418.50	-11.98	53.74	416.80	-142.83	1.17
288	2/18/2020 0:50	2/18/2020 0:51	0:01:19	-6.42	57.80	415.89	-2.35	60.70	415.44	-143.60	0.40
289	2/18/2020 0:55	2/18/2020 0:58	0:02:41	8.34	68.29	415.14	16.37	74.35	415.75	-143.75	0.25
290	2/18/2020 0:58	2/18/2020 1:00	0:01:40	18.35	75.95	416.00	23.21	80.11	416.77	-143.64	0.36
291	2/18/2020 1:02	2/18/2020 1:08	0:06:01	28.39	85.09	417.81	43.16	105.95	421.65	-143.35	0.65
292	2/18/2020 1:09	2/18/2020 1:10	0:01:29	45.73	111.89	422.41	48.17	119.23	423.14	-143.41	0.59
293	2/18/2020 1:12	2/18/2020 1:12	0:00:11	49.86	126.33	423.66	50.04	127.25	423.72	-143.84	0.16
294	2/18/2020 1:14	2/18/2020 1:16	0:02:21	51.45	137.78	424.18	51.67	151.71	424.34	-141.57	2.43
295	2/18/2020 1:19	2/18/2020 1:30	0:11:20	49.77	167.08	423.94	24.87	-148.72	418.17	-141.52	2.48
296	2/18/2020 1:32	2/18/2020 1:34	0:02:19	19.57	-144.04	417.34	12.63	-138.54	416.61	-143.04	0.96
297	2/18/2020 1:38	2/18/2020 1:41	0:03:30	1.99	-130.83	416.44	-8.70	-123.24	417.46	-143.04	0.96
298	2/18/2020 1:46	2/18/2020 1:46	0:00:09	-23.54	-111.38	420.70	-24.01	-110.95	420.83	-143.92	0.08
299	2/18/2020 1:47	2/18/2020 1:47	0:00:09	-26.37	-108.71	421.51	-26.84	-108.25	421.65	-143.93	0.07
300	2/18/2020 1:51	2/18/2020 1:51	0:00:09	-35.31	-98.65	424.35	-35.73	-98.09	424.49	-143.95	0.05

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 ² /4kHz)	PFD Non-Compliance (dB)
301	2/18/2020 1:59	2/18/2020 2:00	0:01:10	-50.75	-60.26	429.52	-51.49	-53.48	429.72	-143.12	0.88
302	2/18/2020 2:03	2/18/2020 2:09	0:06:11	-51.64	-39.56	429.67	-44.16	-6.99	426.74	-142.30	1.70
303	2/18/2020 2:12	2/18/2020 2:15	0:03:50	-37.94	4.29	424.41	-27.95	16.48	420.91	-143.81	0.19
304	2/18/2020 2:17	2/18/2020 2:20	0:03:50	-25.14	19.23	420.03	-13.92	28.68	417.10	-142.78	1.22
305	2/18/2020 2:21	2/18/2020 2:21	0:00:11	-11.91	30.20	416.70	-11.41	30.58	416.61	-143.85	0.15
306	2/18/2020 2:23	2/18/2020 2:24	0:01:10	-5.33	35.00	415.68	-1.77	37.52	415.32	-143.60	0.40
307	2/18/2020 2:28	2/18/2020 2:30	0:02:19	9.43	45.49	415.13	16.45	50.83	415.71	-143.82	0.18
308	2/18/2020 2:31	2/18/2020 2:33	0:01:40	18.91	52.82	416.03	23.76	57.03	416.83	-143.63	0.37
309	2/18/2020 2:34	2/18/2020 2:41	0:06:11	28.45	61.58	417.78	43.55	83.19	421.74	-143.35	0.65
310	2/18/2020 2:42	2/18/2020 2:44	0:01:49	46.07	89.20	422.48	48.89	98.38	423.34	-143.48	0.52
311	2/18/2020 2:45	2/18/2020 2:45	0:00:10	49.89	102.87	423.65	50.07	103.80	423.71	-143.88	0.12
312	2/18/2020 2:47	2/18/2020 2:49	0:02:10	51.53	115.32	424.20	51.66	128.27	424.34	-141.89	2.11

Max. Exceedance: 8.46 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 ² /4kHz)	PFD Non-Compliance (dB)
1	2/15/2020 22:24	2/17/2020 3:39	29:14:10	-49.11	-2.30	270.11	50.97	129.84	421.99	-132.53	11.47
2	2/17/2020 3:40	2/17/2020 3:53	0:12:40	49.73	137.35	421.79	20.97	-175.07	417.31	-139.67	4.33
3	2/17/2020 3:53	2/17/2020 4:22	0:28:30	18.53	-173.02	417.21	-51.66	-80.33	428.95	-140.00	4.00
4	2/17/2020 4:23	2/17/2020 4:25	0:02:21	-51.78	-75.35	428.69	-50.91	-61.56	427.52	-140.13	3.87
5	2/17/2020 4:26	2/17/2020 5:10	0:44:10	-50.50	-58.71	427.18	51.71	96.94	418.83	-138.43	5.57
6	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	-143.08	0.92
7	2/17/2020 5:12	2/17/2020 5:12	0:00:00	50.00	112.42	419.38	50.00	112.42	419.38	-143.71	0.29
8	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	-142.53	1.47
9	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	-140.58	3.42
10	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	-142.12	1.88
11	2/17/2020 5:23	2/17/2020 5:36	0:12:59	26.90	155.91	417.67	-12.05	-174.17	419.77	-138.92	5.08
12	2/17/2020 5:37	2/17/2020 5:48	0:10:20	-15.55	-171.49	420.53	-42.88	-139.79	427.89	-140.58	3.42
13	2/17/2020 5:49	2/17/2020 7:02	1:13:20	-44.86	-135.44	428.36	8.94	147.14	417.16	-138.29	5.71
14	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	-138.82	5.18
15	2/17/2020 7:26	2/17/2020 7:27	0:01:00	-51.03	-135.18	429.10	-51.58	-129.32	428.95	-143.17	0.83
16	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	-139.13	4.87
17	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	-142.39	1.61
18	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	-139.70	4.30
19	2/17/2020 7:38	2/17/2020 7:38	0:00:00	-39.79	-75.69	420.77	-39.79	-75.69	420.77	-143.13	0.87
20	2/17/2020 7:38	2/17/2020 7:56	0:18:00	-38.63	-73.82	420.16	13.69	-28.38	406.84	-138.84	5.16
21	2/17/2020 7:57	2/17/2020 7:57	0:00:10	15.19	-27.22	406.96	15.69	-26.83	407.01	-143.43	0.57
22	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	-139.96	4.04
23	2/17/2020 8:07	2/17/2020 8:48	0:40:20	43.42	5.86	414.02	-28.62	152.91	423.93	-137.98	6.02
24	2/17/2020 8:49	2/17/2020 9:44	0:54:31	-33.96	158.98	425.44	49.93	2.47	417.00	-138.57	5.43
25	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	-140.56	3.44
26	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	-140.20	3.80
27	2/17/2020 9:53	2/17/2020 11:23	1:29:40	46.03	56.03	419.08	50.27	16.62	417.71	-138.24	5.76
28	2/17/2020 11:24	2/17/2020 16:00	4:35:41	49.36	21.21	417.72	51.55	-64.70	424.29	-138.28	5.72
29	2/17/2020 16:01	2/17/2020 17:32	1:31:59	51.10	-59.80	424.18	51.54	-88.13	424.33	-138.52	5.48
30	2/17/2020 17:34	2/17/2020 19:05	1:31:49	50.97	-82.27	424.19	51.53	-111.56	424.38	-138.54	5.46
31	2/17/2020 19:07	2/17/2020 19:24	0:17:50	50.82	-104.75	424.22	8.90	-41.43	416.17	-139.52	4.48
32	2/17/2020 19:25	2/17/2020 20:38	1:13:29	7.38	-40.33	416.13	51.44	-134.02	424.26	-138.55	5.45
33	2/17/2020 20:40	2/17/2020 20:57	0:17:39	50.66	-127.24	424.08	8.82	-64.96	416.20	-138.82	5.18
34	2/17/2020 20:58	2/17/2020 22:11	1:13:21	6.79	-63.49	416.16	51.43	-157.45	424.12	-138.56	5.44
35	2/17/2020 22:13	2/17/2020 22:30	0:17:40	50.49	-149.73	423.91	8.23	-88.12	416.21	-138.39	5.61
36	2/17/2020 22:31	2/17/2020 23:44	1:13:21	6.20	-86.65	416.18	51.33	-179.91	424.26	-138.60	5.40
37	2/17/2020 23:45	2/18/2020 0:03	0:17:39	50.47	-173.18	424.07	8.16	-111.65	416.34	-138.48	5.52
38	2/18/2020 0:04	2/18/2020 1:17	1:13:11	5.62	-109.82	416.31	51.31	156.65	424.28	-138.56	5.44
39	2/18/2020 1:18	2/18/2020 1:36	0:17:39	50.29	164.31	424.06	7.58	-134.82	416.38	-138.51	5.49
40	2/18/2020 1:37	2/18/2020 2:50	1:13:11	5.04	-133.00	416.36	51.20	134.18	424.26	-138.88	5.12

Max. Exceedance: 11.47 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 ² /4kHz)	PFD Non- Compliance (dB)
1	2/15/2020 22:24	2/15/2020 22:26	0:01:01	-49.11	-2.30	270.11	-50.27	3.36	272.94	-142.89	1.11
2	2/15/2020 22:36	2/15/2020 22:41	0:04:21	-41.82	64.51	286.63	-30.89	80.09	283.19	-142.70	1.30
3	2/15/2020 22:41	2/15/2020 23:55	1:13:30	-29.50	81.62	282.53	-50.46	-18.17	273.26	-136.14	7.86
4	2/16/2020 0:06	2/16/2020 1:24	1:18:00	-41.00	43.33	286.38	-50.48	-40.68	273.11	-136.15	7.85
5	2/16/2020 1:35	2/16/2020 2:53	1:17:40	-40.15	22.12	286.03	-50.51	-63.17	272.87	-136.16	7.84
6	2/16/2020 3:05	2/16/2020 4:23	1:17:30	-39.29	0.87	285.60	-50.69	-84.67	273.13	-136.18	7.82
7	2/16/2020 4:34	2/16/2020 5:52	1:17:21	-38.80	-21.04	285.30	-50.73	-107.13	272.97	-136.19	7.81
8	2/16/2020 6:04	2/16/2020 7:21	1:17:11	-37.89	-42.33	284.91	-50.90	-128.59	273.13	-136.20	7.80
9	2/16/2020 7:24	2/16/2020 8:16	0:51:59	-51.59	-108.17	280.26	40.95	98.67	211.14	-135.04	8.96
10	2/16/2020 8:17	2/16/2020 8:50	0:32:40	38.11	103.32	210.00	-50.84	-151.68	274.91	-136.57	7.43
11	2/16/2020 9:03	2/16/2020 9:46	0:43:10	-36.27	-85.37	283.94	39.92	77.73	210.77	-137.94	6.06
12	2/16/2020 9:47	2/16/2020 10:19	0:32:20	37.01	82.24	209.70	-50.92	-173.78	274.84	-136.59	7.41
13	2/16/2020 10:32	2/16/2020 11:15	0:43:09	-35.58	-107.14	283.55	39.26	56.09	210.49	-137.95	6.05
14	2/16/2020 11:17	2/16/2020 11:49	0:32:11	36.31	60.51	209.45	-51.00	164.12	274.93	-136.60	7.40
15	2/16/2020 12:02	2/16/2020 12:45	0:43:10	-34.44	-128.35	283.20	38.18	35.08	209.87	-137.91	6.09
16	2/16/2020 12:46	2/16/2020 13:18	0:31:59	35.60	38.77	209.02	-51.07	142.05	274.97	-136.56	7.44
17	2/16/2020 13:32	2/16/2020 14:15	0:43:09	-33.71	-150.15	282.95	37.49	13.40	209.43	-137.92	6.08
18	2/16/2020 14:16	2/16/2020 14:48	0:31:41	34.43	17.60	208.49	-51.15	119.99	274.84	-136.59	7.41
19	2/16/2020 15:01	2/16/2020 16:16	1:14:49	-32.53	-171.41	282.31	-50.50	92.45	316.22	-136.19	7.81
20	2/16/2020 16:36	2/16/2020 17:01	0:24:49	-16.78	-179.18	331.53	50.12	-101.34	244.15	-138.88	5.12
21	2/16/2020 17:03	2/16/2020 17:14	0:11:30	51.35	-92.34	238.85	35.78	-29.64	208.97	-135.54	8.46
22	2/16/2020 17:15	2/16/2020 17:46	0:31:00	32.62	-25.62	208.17	-51.12	74.25	290.99	-136.77	7.23
23	2/16/2020 18:01	2/16/2020 18:03	0:02:29	-29.63	146.37	301.34	-22.43	153.37	297.64	-143.29	0.71
24	2/16/2020 18:05	2/16/2020 18:31	0:26:09	-18.44	156.77	295.24	50.98	-118.40	231.33	-138.23	5.77
25	2/16/2020 18:31	2/16/2020 18:44	0:12:20	51.31	-115.34	230.15	34.71	-50.97	208.75	-140.98	3.02
26	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	-136.78	7.22
27	2/16/2020 19:31	2/16/2020 19:33	0:02:30	-28.97	124.32	300.81	-21.73	131.24	297.03	-143.27	0.73
28	2/16/2020 19:35	2/16/2020 20:00	0:25:50	-17.72	134.61	294.59	50.91	-141.73	231.62	-138.20	5.80
29	2/16/2020 20:01	2/16/2020 20:14	0:12:31	51.35	-137.66	230.05	34.07	-72.91	208.59	-140.93	3.07
30	2/16/2020 20:15	2/16/2020 20:45	0:30:30	30.83	-69.06	207.94	-51.21	29.59	290.96	-136.80	7.20
31	2/16/2020 21:00	2/16/2020 21:03	0:02:21	-27.82	102.75	300.12	-21.02	109.10	296.46	-143.25	0.75
32	2/16/2020 21:04	2/16/2020 21:36	0:31:29	-17.00	112.44	293.98	49.39	-128.29	218.60	-138.21	5.79
33	2/16/2020 21:37	2/16/2020 21:43	0:06:20	47.71	-121.88	216.41	33.41	-94.84	208.32	-141.44	2.56
34	2/16/2020 21:44	2/16/2020 22:15	0:30:19	30.15	-91.06	207.74	-51.26	7.28	290.87	-136.81	7.19
35	2/16/2020 22:25	2/16/2020 22:58	0:33:19	-41.39	61.94	303.99	49.74	165.78	292.20	-139.11	4.89
36	2/16/2020 23:01	2/16/2020 23:02	0:01:20	51.72	-177.29	301.99	51.70	-169.05	306.98	-143.54	0.46
37	2/16/2020 23:16	2/16/2020 23:17	0:00:11	23.98	-107.76	365.34	23.50	-107.32	366.01	-144.00	0.00
38	2/16/2020 23:23	2/16/2020 23:36	0:13:21	4.99	-92.81	389.46	-33.99	-60.19	418.53	-141.95	2.05
39	2/17/2020 0:03	2/17/2020 0:03	0:00:40	-23.69	60.76	320.65	-21.72	62.52	317.09	-143.91	0.09
40	2/17/2020 0:06	2/17/2020 0:29	0:23:39	-14.66	68.32	305.33	49.80	142.89	292.32	-139.11	4.89
41	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	-143.52	0.48
42	2/17/2020 0:54	2/17/2020 1:07	0:13:19	4.31	-115.53	390.12	-34.57	-82.67	418.66	-141.95	2.05
43	2/17/2020 1:34	2/17/2020 1:35	0:00:50	-22.54	38.58	318.76	-20.06	40.74	314.37	-143.90	0.10
44	2/17/2020 1:37	2/17/2020 2:01	0:23:41	-13.97	45.64	304.45	50.05	120.95	292.87	-139.12	4.88
45	2/17/2020 2:03	2/17/2020 2:05	0:01:20	51.71	135.95	301.50	51.71	144.19	306.47	-143.48	0.52
46	2/17/2020 2:23	2/17/2020 2:44	0:20:50	12.26	-144.53	380.47	-45.50	-86.73	423.67	-141.85	2.15
47	2/17/2020 3:11	2/17/2020 3:25	0:13:49	-7.44	27.22	411.21	33.35	60.82	415.48	-142.88	1.12
48	2/17/2020 3:26	2/17/2020 3:28	0:01:59	35.91	64.12	416.24	40.67	71.42	417.76	-142.67	1.33
49	2/17/2020 3:45	2/17/2020 3:47	0:02:00	41.87	159.64	419.13	37.26	167.23	418.69	-140.77	3.23
50	2/17/2020 4:22	2/17/2020 4:22	0:00:09	-51.70	-79.33	428.90	-51.74	-78.34	428.86	-143.67	0.33
51	2/17/2020 4:24	2/17/2020 4:24	0:00:30	-51.57	-68.39	428.19	-51.34	-65.44	427.92	-143.49	0.51
52	2/17/2020 4:26	2/17/2020 4:26	0:00:20	-50.19	-56.83	426.94	-49.84	-54.99	426.69	-143.80	0.20
53	2/17/2020 4:29	2/17/2020 4:29	0:00:11	-46.29	-42.15	424.44	-46.00	-41.36	424.27	-143.93	0.07
54	2/17/2020 4:30	2/17/2020 5:19	0:48:50	-43.81	-36.08	423.02	38.24	142.20	418.75	-139.82	4.18
55	2/17/2020 6:08	2/17/2020 6:08	0:00:39	-32.14	-41.58	417.03	-30.36	-39.55	416.20	-142.95	1.05
56	2/17/2020 6:10	2/17/2020 6:10	0:00:10	-27.61	-36.67	414.97	-27.14	-36.20	414.77	-143.30	0.70
57	2/17/2020 6:32	2/17/2020 6:32	0:00:21	37.59	19.25	411.91	38.39	20.46	412.18	-143.77	0.23
58	2/17/2020 6:34	2/17/2020 6:36	0:01:31	43.56	29.74	414.06	46.38	36.56	415.21	-143.79	0.21
59	2/17/2020 7:01	2/17/2020 7:19	0:18:00	10.96	145.66	417.10	-40.60	-167.74	427.26	-140.49	3.51
60	2/17/2020 7:21	2/17/2020 7:36	0:14:59	-43.78	-161.57	428.05	-43.07	-81.71	422.53	-138.96	5.04

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 ² /4kHz)	PFD Non- Compliance (dB)
61	2/17/2020 7:59	2/17/2020 8:15	0:16:40	21.60	-21.95	407.82	51.72	49.94	418.85	-140.99	3.01
62	2/17/2020 8:17	2/17/2020 8:17	0:00:09	51.23	56.85	419.16	51.13	57.83	419.19	-143.91	0.09
63	2/17/2020 8:21	2/17/2020 8:26	0:04:20	45.30	81.49	419.36	35.71	98.63	418.50	-142.01	1.99
64	2/17/2020 8:27	2/17/2020 8:27	0:00:09	32.70	102.43	418.20	32.26	102.95	418.16	-143.86	0.14
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	-142.61	1.39
66	2/17/2020 8:32	2/17/2020 8:33	0:00:41	17.66	116.91	417.18	15.68	118.49	417.14	-143.13	0.87
67	2/17/2020 8:34	2/17/2020 8:40	0:06:41	12.68	120.80	417.13	-7.62	135.35	418.96	-139.01	4.99
68	2/17/2020 8:41	2/17/2020 8:45	0:03:20	-10.15	137.19	419.42	-20.08	144.97	421.64	-140.39	3.61
69	2/17/2020 9:16	2/17/2020 9:19	0:02:40	-23.29	-79.69	413.11	-15.46	-73.13	410.35	-142.72	1.28
70	2/17/2020 9:20	2/17/2020 9:34	0:13:41	-11.45	-70.07	409.21	29.42	-38.03	409.52	-142.82	1.18
71	2/17/2020 9:55	2/17/2020 9:59	0:04:29	44.17	60.59	418.91	33.76	77.57	417.64	-142.81	1.19
72	2/17/2020 10:56	2/17/2020 11:09	0:13:40	-4.02	-88.26	407.83	35.84	-53.91	410.81	-142.79	1.21
73	2/17/2020 11:10	2/17/2020 11:12	0:01:59	37.90	-50.99	411.41	42.44	-43.24	412.88	-142.58	1.42
74	2/17/2020 11:44	2/17/2020 11:56	0:11:41	-3.20	85.06	416.02	-36.62	115.38	424.76	-142.25	1.75
75	2/17/2020 12:28	2/17/2020 12:42	0:13:40	-3.67	-111.58	407.96	36.13	-77.09	410.88	-142.80	1.20
76	2/17/2020 12:43	2/17/2020 12:45	0:02:00	38.17	-74.15	411.47	42.68	-66.34	412.91	-142.59	1.41
77	2/17/2020 13:17	2/17/2020 13:20	0:03:09	-3.55	61.74	415.90	-13.16	68.75	417.78	-142.23	1.77
78	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	-143.37	0.63
79	2/17/2020 14:02	2/17/2020 14:12	0:10:10	-1.86	-133.86	415.74	28.37	-109.84	418.13	-142.99	1.01
80	2/17/2020 14:13	2/17/2020 14:15	0:01:40	31.98	-105.89	418.94	36.28	-100.46	420.01	-143.45	0.55
81	2/17/2020 14:16	2/17/2020 14:18	0:01:50	38.71	-96.90	420.64	42.80	-89.69	421.76	-142.79	1.21
82	2/17/2020 14:50	2/17/2020 15:02	0:11:31	-4.62	38.92	416.45	-37.37	69.29	424.71	-142.23	1.77
83	2/17/2020 15:35	2/17/2020 15:45	0:10:01	-1.27	-157.04	415.72	28.44	-133.35	418.13	-142.99	1.01
84	2/17/2020 15:46	2/17/2020 15:48	0:01:31	32.49	-128.88	419.06	36.34	-123.96	420.02	-143.44	0.56
85	2/17/2020 15:49	2/17/2020 15:51	0:01:40	39.16	-119.78	420.76	42.85	-113.17	421.77	-142.79	1.21
86	2/17/2020 16:23	2/17/2020 16:35	0:11:31	-5.21	15.75	416.51	-37.83	46.39	424.84	-142.23	1.77
87	2/17/2020 17:08	2/17/2020 17:18	0:10:01	-0.69	179.79	415.61	28.97	-156.38	418.23	-142.99	1.01
88	2/17/2020 17:19	2/17/2020 17:21	0:01:31	33.00	-151.86	419.17	36.82	-146.88	420.13	-143.44	0.56
89	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	-142.80	1.20
90	2/17/2020 17:56	2/17/2020 18:08	0:11:19	-5.79	-7.41	416.67	-37.89	22.90	424.89	-142.23	1.77
91	2/17/2020 18:41	2/17/2020 18:51	0:09:50	0.41	156.98	415.47	29.49	-179.41	418.31	-142.99	1.01
92	2/17/2020 18:52	2/17/2020 18:54	0:01:31	33.50	-174.83	419.26	37.29	-169.79	420.24	-143.44	0.56
93	2/17/2020 18:55	2/17/2020 18:56	0:01:40	39.66	-166.13	420.88	43.30	-159.42	421.90	-142.81	1.19
94	2/17/2020 19:29	2/17/2020 19:41	0:11:19	-6.37	-30.58	416.87	-38.35	0.00	425.19	-142.23	1.77
95	2/17/2020 20:14	2/17/2020 20:24	0:09:50	0.99	133.81	415.35	30.01	157.57	418.29	-143.00	1.00
96	2/17/2020 20:25	2/17/2020 20:27	0:01:21	33.99	162.20	419.24	37.35	166.72	420.11	-143.43	0.57
97	2/17/2020 20:28	2/17/2020 20:29	0:01:40	40.10	171.02	420.86	43.68	177.82	421.87	-142.81	1.19
98	2/17/2020 21:02	2/17/2020 21:14	0:11:19	-6.96	-53.75	417.00	-38.80	-22.88	425.43	-142.23	1.77
99	2/17/2020 21:47	2/17/2020 21:49	0:01:40	1.58	110.64	415.23	6.67	114.25	415.15	-143.81	0.19
100	2/17/2020 21:49	2/17/2020 21:57	0:07:39	8.19	115.35	415.19	30.53	134.55	418.27	-143.00	1.00
101	2/17/2020 21:58	2/17/2020 22:00	0:01:31	34.06	138.70	419.12	37.81	143.81	420.09	-143.42	0.58
102	2/17/2020 22:01	2/17/2020 22:02	0:01:41	40.16	147.53	420.73	43.73	154.34	421.73	-142.82	1.18
103	2/17/2020 22:35	2/17/2020 22:46	0:11:09	-7.54	-76.91	417.14	-38.86	-46.37	425.50	-142.22	1.78
104	2/17/2020 23:20	2/17/2020 23:22	0:01:40	2.17	87.47	415.19	7.26	91.09	415.15	-143.81	0.19
105	2/17/2020 23:22	2/17/2020 23:30	0:07:31	8.78	92.19	415.19	30.60	111.04	418.34	-143.00	1.00
106	2/17/2020 23:31	2/17/2020 23:33	0:01:31	34.55	115.74	419.31	38.27	120.92	420.30	-143.42	0.58
107	2/17/2020 23:34	2/17/2020 23:35	0:01:40	40.59	124.69	420.94	44.11	131.60	421.95	-142.83	1.17
108	2/18/2020 0:08	2/18/2020 0:19	0:11:09	-8.12	-100.07	417.34	-39.30	-69.25	425.74	-142.21	1.79
109	2/18/2020 0:53	2/18/2020 0:55	0:01:41	2.75	64.29	415.14	7.84	67.92	415.13	-143.81	0.19
110	2/18/2020 0:55	2/18/2020 1:03	0:07:31	9.36	69.03	415.18	31.11	88.03	418.43	-143.00	1.00
111	2/18/2020 1:04	2/18/2020 1:06	0:01:31	35.04	92.78	419.41	38.72	98.03	420.40	-143.41	0.59
112	2/18/2020 1:07	2/18/2020 1:08	0:01:40	40.64	101.20	420.93	44.16	108.12	421.95	-142.84	1.16
113	2/18/2020 1:41	2/18/2020 1:52	0:11:00	-8.70	-123.24	417.46	-39.36	-92.75	425.72	-142.22	1.78
114	2/18/2020 2:26	2/18/2020 2:28	0:01:40	3.33	41.12	415.06	8.42	44.76	415.09	-143.82	0.18
115	2/18/2020 2:28	2/18/2020 2:36	0:07:31	9.93	45.86	415.15	31.62	65.02	418.52	-142.99	1.01
116	2/18/2020 2:37	2/18/2020 2:39	0:01:21	35.52	69.84	419.50	38.78	74.54	420.38	-143.40	0.60
117	2/18/2020 2:40	2/18/2020 2:41	0:01:40	41.07	78.36	421.02	44.53	85.38	422.03	-142.85	1.15
118	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	-142.93	1.07

Max. Exceedance: 8.96 dB

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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	-141.87	2.13
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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
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

Table 1 Berthed (CLS - 5M93G1D) PFD Exceedance

	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 ² /4kHz)	PFD Non- Compliance (dB)
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 ² /4kHz)	PFD Non-Compliance (dB)
1	5/11/2020 21:17	5/11/2020 21:22	0:05:50	-50.57	-94.45	439.75	-41.18	-66.26	435.98	-143.03	0.97
2	5/11/2020 21:23	5/11/2020 21:29	0:06:11	-40.06	-64.32	435.53	-23.97	-44.92	429.45	-143.31	0.69
3	5/11/2020 21:30	5/11/2020 21:33	0:02:49	-20.61	-41.95	428.36	-12.21	-35.26	426.03	-143.10	0.90
4	5/11/2020 21:35	5/11/2020 22:00	0:25:20	-7.67	-31.92	425.05	51.77	55.20	430.31	-141.63	2.37
5	5/11/2020 22:01	5/11/2020 22:04	0:02:41	51.77	60.19	430.33	50.25	75.73	430.00	-143.62	0.38
6	5/11/2020 22:06	5/11/2020 22:07	0:00:31	46.38	90.45	429.10	45.49	92.80	428.90	-143.57	0.43
7	5/11/2020 22:08	5/11/2020 22:18	0:10:40	43.90	96.54	428.53	16.04	129.99	423.99	-142.40	1.60
8	5/11/2020 22:21	5/11/2020 22:24	0:03:20	9.53	134.92	423.82	-0.62	142.16	424.45	-142.00	2.00
9	5/11/2020 22:25	5/11/2020 22:26	0:01:29	-3.17	143.95	424.78	-7.74	147.21	425.54	-142.76	1.24
10	5/11/2020 22:29	5/11/2020 22:38	0:09:20	-15.76	153.23	427.39	-40.86	-179.07	436.08	-140.19	3.81
11	5/11/2020 22:41	5/11/2020 22:41	0:00:31	-45.88	-168.36	438.02	-46.74	-165.99	438.35	-143.47	0.53
12	5/11/2020 22:42	5/11/2020 22:43	0:00:50	-47.54	-163.54	438.66	-48.74	-159.28	439.11	-142.75	1.25
13	5/11/2020 22:44	5/11/2020 22:52	0:07:40	-50.59	-150.20	439.79	-47.98	-106.31	438.64	-143.03	0.97
14	5/11/2020 22:55	5/11/2020 22:55	0:00:50	-42.91	-93.20	436.61	-41.13	-89.80	435.89	-143.60	0.40
15	5/11/2020 22:56	5/11/2020 23:02	0:06:20	-40.01	-87.86	435.44	-23.43	-68.06	429.21	-143.29	0.71
16	5/11/2020 23:03	5/11/2020 23:06	0:02:51	-20.05	-65.11	428.13	-11.64	-58.46	425.84	-143.07	0.93
17	5/11/2020 23:08	5/11/2020 23:33	0:25:30	-7.60	-55.50	424.99	51.79	32.70	430.40	-141.64	2.36
18	5/11/2020 23:34	5/11/2020 23:36	0:01:50	51.76	36.69	430.40	50.94	47.50	430.23	-143.62	0.38
19	5/11/2020 23:39	5/11/2020 23:40	0:01:29	47.69	62.86	429.49	45.14	70.04	428.90	-143.40	0.60
20	5/11/2020 23:41	5/11/2020 23:51	0:10:49	43.86	73.00	428.61	15.48	106.80	424.01	-142.50	1.50
21	5/11/2020 23:54	5/11/2020 23:57	0:03:09	8.45	112.08	423.87	-1.20	118.94	424.54	-142.21	1.79
22	5/11/2020 23:58	5/12/2020 0:11	0:13:00	-4.25	121.09	424.96	-40.53	156.73	435.93	-140.40	3.60
23	5/12/2020 0:14	5/12/2020 0:16	0:01:51	-45.92	168.12	438.01	-48.77	177.20	439.09	-142.39	1.61
24	5/12/2020 0:17	5/12/2020 0:18	0:00:39	-50.61	-173.70	439.77	-51.12	-169.88	439.95	-143.52	0.48
25	5/12/2020 0:21	5/12/2020 0:29	0:08:00	-51.69	-153.09	440.12	-40.71	-112.69	435.72	-143.04	0.96
26	5/12/2020 0:29	5/12/2020 0:36	0:06:20	-39.58	-110.77	435.27	-22.89	-91.20	429.06	-143.29	0.71
27	5/12/2020 0:37	5/12/2020 0:39	0:02:49	-19.50	-88.27	427.99	-11.07	-81.66	425.76	-143.07	0.93
28	5/12/2020 0:41	5/12/2020 0:59	0:18:40	-7.03	-78.72	424.93	44.68	-26.78	428.64	-141.65	2.35
29	5/12/2020 1:02	5/12/2020 1:06	0:03:49	49.20	-12.84	429.77	51.79	9.20	430.45	-142.32	1.68
30	5/12/2020 1:07	5/12/2020 1:13	0:06:09	51.76	13.19	430.45	45.10	46.51	428.92	-143.38	0.62
31	5/12/2020 1:14	5/12/2020 1:25	0:10:51	43.48	50.19	428.54	14.91	83.61	423.93	-142.50	1.50
32	5/12/2020 1:27	5/12/2020 1:30	0:03:21	7.88	88.87	423.83	-2.28	96.07	424.62	-142.37	1.63
33	5/12/2020 1:32	5/12/2020 1:44	0:12:29	-5.84	98.60	425.16	-40.58	133.19	435.99	-140.91	3.09
34	5/12/2020 1:46	5/12/2020 1:49	0:02:10	-45.66	143.82	437.98	-49.02	154.57	439.27	-141.95	2.05
35	5/12/2020 1:50	5/12/2020 1:57	0:06:20	-50.63	162.79	439.88	-49.67	-160.35	439.46	-143.16	0.84
36	5/12/2020 2:01	5/12/2020 2:09	0:07:10	-41.04	-136.89	436.03	-22.35	-114.35	429.07	-143.31	0.69
37	5/12/2020 2:10	5/12/2020 2:13	0:02:50	-18.95	-111.45	428.01	-10.50	-104.88	425.81	-143.09	0.91
38	5/12/2020 2:14	5/12/2020 2:19	0:05:00	-6.46	-101.94	425.00	8.78	-91.11	423.52	-142.09	1.91
39	5/12/2020 2:38	5/12/2020 2:39	0:01:10	51.57	-20.27	430.31	51.79	-13.31	430.37	-143.56	0.44
40	5/12/2020 2:40	5/12/2020 2:46	0:06:20	51.75	-10.31	430.36	44.75	23.72	428.70	-143.36	0.64
41	5/12/2020 2:47	5/12/2020 2:58	0:10:49	43.10	27.35	428.32	14.35	60.42	423.73	-142.49	1.51
42	5/12/2020 3:00	5/12/2020 3:03	0:02:39	6.80	66.01	423.69	-1.33	71.77	424.34	-142.46	1.54
43	5/12/2020 3:11	5/12/2020 3:17	0:06:29	-23.74	89.07	429.66	-40.63	109.65	436.00	-141.53	2.47
44	5/12/2020 3:19	5/12/2020 3:22	0:02:21	-45.70	120.29	438.02	-49.25	131.94	439.41	-141.42	2.58
45	5/12/2020 3:23	5/12/2020 3:35	0:11:30	-50.78	140.23	440.01	-40.24	-159.14	435.88	-143.04	0.96
46	5/12/2020 3:35	5/12/2020 3:42	0:06:31	-39.09	-157.25	435.42	-21.81	-137.50	429.06	-143.30	0.70
47	5/12/2020 3:43	5/12/2020 3:46	0:03:00	-18.89	-135.02	428.15	-9.94	-128.09	425.83	-143.12	0.88
48	5/12/2020 3:47	5/12/2020 4:02	0:15:11	-5.89	-125.16	425.04	37.88	-86.60	427.03	-142.24	1.76
49	5/12/2020 4:05	5/12/2020 4:12	0:07:10	44.11	-75.33	428.45	51.79	-36.82	430.27	-141.60	2.40
50	5/12/2020 4:13	5/12/2020 4:19	0:06:20	51.72	-32.83	430.25	44.39	0.93	428.47	-143.33	0.67
51	5/12/2020 4:20	5/12/2020 4:31	0:11:00	43.06	3.81	428.15	13.79	37.22	423.54	-142.48	1.52
52	5/12/2020 4:34	5/12/2020 4:37	0:03:20	5.73	43.16	423.58	-4.45	50.35	424.63	-142.49	1.51
53	5/12/2020 4:38	5/12/2020 4:43	0:04:29	-8.50	53.25	425.37	-21.88	63.78	428.93	-140.99	3.01
54	5/12/2020 4:52	5/12/2020 4:56	0:03:20	-45.44	95.99	437.82	-50.20	112.97	439.69	-141.17	2.83
55	5/12/2020 4:56	5/12/2020 4:57	0:00:50	-50.80	116.73	439.92	-51.35	121.55	440.14	-143.49	0.51
56	5/12/2020 4:58	5/12/2020 5:08	0:10:21	-51.58	124.49	440.23	-39.82	177.96	435.67	-143.03	0.97
57	5/12/2020 5:09	5/12/2020 5:15	0:06:29	-38.65	179.82	435.21	-21.26	-160.65	428.88	-143.29	0.71
58	5/12/2020 5:16	5/12/2020 5:19	0:03:00	-18.34	-158.20	427.98	-9.37	-151.30	425.71	-143.12	0.88
59	5/12/2020 5:20	5/12/2020 5:36	0:15:40	-4.81	-148.01	424.86	39.89	-107.06	427.50	-142.25	1.75
60	5/12/2020 5:49	5/12/2020 5:52	0:03:00	49.19	-37.27	429.63	44.35	-22.60	428.46	-143.32	0.68
61	5/12/2020 5:53	5/12/2020 6:04	0:11:01	42.67	-19.02	428.06	13.23	14.03	423.49	-142.46	1.54

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^2/4kHz)	PFD Non- Compliance (dB)
62	5/12/2020 6:07	5/12/2020 6:10	0:03:19	4.64	20.30	423.59	-5.53	27.49	424.76	-142.48	1.52
63	5/12/2020 6:12	5/12/2020 6:23	0:11:19	-9.58	30.41	425.54	-40.73	62.56	435.88	-140.93	3.07
64	5/12/2020 6:25	5/12/2020 6:26	0:00:40	-45.17	71.70	437.66	-46.36	74.80	438.13	-143.24	0.76
65	5/12/2020 6:29	5/12/2020 6:29	0:00:00	-50.23	89.47	439.65	-50.23	89.47	439.65	-143.91	0.09
66	5/12/2020 6:29	5/12/2020 6:30	0:00:41	-50.82	93.23	439.88	-51.28	97.08	440.05	-143.62	0.38
67	5/12/2020 6:31	5/12/2020 6:48	0:17:20	-51.65	101.99	440.20	-20.71	176.19	428.66	-143.01	0.99
68	5/12/2020 6:49	5/12/2020 6:52	0:03:00	-17.29	179.03	427.64	-8.29	-174.14	425.46	-143.10	0.90
69	5/12/2020 6:54	5/12/2020 7:13	0:18:50	-4.23	-171.23	424.73	46.63	-116.25	429.03	-141.46	2.54
70	5/12/2020 7:27	5/12/2020 7:38	0:10:10	40.06	-37.89	427.44	12.16	-8.79	423.48	-142.45	1.55
71	5/12/2020 7:40	5/12/2020 7:44	0:03:30	4.58	-3.28	423.62	-6.11	4.28	424.89	-142.40	1.60
72	5/12/2020 7:45	5/12/2020 7:55	0:09:49	-11.16	7.95	425.91	-38.48	35.25	434.96	-141.29	2.71
73	5/12/2020 7:55	5/12/2020 7:56	0:00:41	-39.65	37.10	435.43	-41.15	39.68	436.03	-143.17	0.83
74	5/12/2020 7:58	5/12/2020 8:00	0:01:20	-45.21	48.18	437.64	-47.49	54.52	438.54	-142.40	1.60
75	5/12/2020 8:16	5/12/2020 8:21	0:05:39	-35.70	136.83	433.90	-20.16	153.04	428.40	-143.20	0.80
76	5/12/2020 8:23	5/12/2020 8:26	0:02:51	-16.23	156.25	427.26	-7.71	162.65	425.26	-143.12	0.88
77	5/12/2020 8:27	5/12/2020 8:46	0:19:10	-3.66	165.55	424.57	47.48	-137.31	429.27	-141.41	2.59
78	5/12/2020 9:07	5/12/2020 9:11	0:03:59	23.39	-41.59	424.46	11.59	-31.99	423.58	-142.46	1.54
79	5/12/2020 9:13	5/12/2020 9:17	0:03:30	4.00	-26.49	423.77	-6.68	-18.94	425.10	-142.44	1.56
80	5/12/2020 9:19	5/12/2020 9:28	0:09:20	-12.23	-14.87	426.27	-38.13	11.10	434.91	-142.21	1.79
81	5/12/2020 9:29	5/12/2020 9:29	0:00:11	-40.83	15.48	435.97	-41.20	16.14	436.12	-143.57	0.43
82	5/12/2020 9:31	5/12/2020 9:35	0:03:39	-45.25	24.65	437.72	-50.43	43.40	439.73	-141.14	2.86
83	5/12/2020 9:36	5/12/2020 9:36	0:00:30	-50.98	47.19	439.94	-51.30	50.09	440.06	-143.80	0.20
84	5/12/2020 9:37	5/12/2020 9:41	0:03:41	-51.71	55.99	440.21	-50.42	77.52	439.70	-143.00	1.00
85	5/12/2020 9:45	5/12/2020 9:47	0:01:51	-42.94	101.36	436.74	-38.89	108.58	435.12	-143.14	0.86
86	5/12/2020 9:48	5/12/2020 9:55	0:06:40	-37.70	110.39	434.65	-19.61	129.88	428.16	-143.10	0.90
87	5/12/2020 9:56	5/12/2020 9:58	0:01:31	-15.18	133.45	426.90	-10.67	136.87	425.80	-143.31	0.69
88	5/12/2020 10:00	5/12/2020 10:19	0:18:49	-2.57	142.69	424.33	47.51	-160.82	429.21	-141.46	2.54
89	5/12/2020 10:22	5/12/2020 10:24	0:02:10	51.21	-142.66	430.12	51.78	-129.78	430.27	-143.33	0.67
90	5/12/2020 10:25	5/12/2020 10:32	0:06:40	51.70	-126.79	430.26	43.55	-91.73	428.34	-143.29	0.71
91	5/12/2020 10:32	5/12/2020 10:44	0:11:30	41.81	-88.25	427.94	10.51	-54.82	423.63	-142.44	1.56
92	5/12/2020 10:46	5/12/2020 10:50	0:03:39	4.44	-50.43	423.82	-6.75	-42.52	425.21	-142.47	1.53
93	5/12/2020 10:52	5/12/2020 11:00	0:08:29	-13.80	-37.31	426.77	-37.39	-13.64	434.76	-142.70	1.30
94	5/12/2020 11:04	5/12/2020 11:08	0:04:01	-44.99	0.37	437.76	-50.60	20.83	439.93	-141.12	2.88
95	5/12/2020 11:09	5/12/2020 11:09	0:00:11	-51.11	24.65	440.12	-51.21	25.62	440.15	-143.87	0.13
96	5/12/2020 11:10	5/12/2020 11:16	0:06:20	-51.71	32.49	440.33	-46.93	68.02	438.42	-143.03	0.97
97	5/12/2020 11:20	5/12/2020 11:20	0:00:59	-40.75	81.87	435.92	-38.44	85.64	434.99	-143.59	0.41
98	5/12/2020 11:21	5/12/2020 11:28	0:06:50	-37.24	87.43	434.51	-18.57	107.11	427.81	-142.99	1.01
99	5/12/2020 11:29	5/12/2020 11:32	0:02:39	-14.12	110.65	426.56	-6.06	116.59	424.79	-143.04	0.96
100	5/12/2020 11:33	5/12/2020 11:45	0:11:39	-3.01	118.76	424.30	31.37	146.84	425.43	-141.90	2.10
101	5/12/2020 11:47	5/12/2020 11:52	0:04:31	38.15	155.68	426.81	47.29	174.83	428.95	-141.44	2.56
102	5/12/2020 11:53	5/12/2020 11:57	0:04:49	48.53	179.06	429.26	51.78	-153.27	430.09	-142.57	1.43
103	5/12/2020 11:58	5/12/2020 11:58	0:00:09	51.64	-149.29	430.06	51.59	-148.30	430.05	-143.75	0.25
104	5/12/2020 12:01	5/12/2020 12:05	0:03:29	49.29	-132.18	429.53	43.51	-115.25	428.20	-143.29	0.71
105	5/12/2020 12:05	5/12/2020 12:17	0:11:41	41.76	-111.78	427.80	9.94	-78.02	423.63	-142.43	1.57
106	5/12/2020 12:19	5/12/2020 12:23	0:03:50	4.37	-74.01	423.83	-7.33	-65.73	425.34	-142.47	1.53
107	5/12/2020 12:25	5/12/2020 12:26	0:00:59	-14.86	-60.11	427.06	-17.83	-57.76	427.88	-143.74	0.26
108	5/12/2020 12:27	5/12/2020 12:27	0:00:00	-19.30	-56.55	428.32	-19.30	-56.55	428.32	-144.00	0.00
109	5/12/2020 12:28	5/12/2020 12:31	0:02:30	-24.12	-52.34	429.86	-31.05	-45.33	432.33	-143.77	0.23
110	5/12/2020 12:32	5/12/2020 12:33	0:01:31	-33.25	-42.76	433.16	-37.04	-37.77	434.63	-143.04	0.96
111	5/12/2020 12:37	5/12/2020 12:37	0:00:00	-45.03	-23.15	437.78	-45.03	-23.15	437.78	-143.52	0.48
112	5/12/2020 13:02	5/12/2020 13:18	0:15:10	-13.55	87.46	426.38	31.43	123.29	425.44	-141.64	2.36
113	5/12/2020 13:33	5/12/2020 13:38	0:05:00	50.65	-163.05	429.88	43.12	-138.07	428.15	-143.27	0.73
114	5/12/2020 13:39	5/12/2020 13:50	0:11:49	41.35	-134.64	427.75	8.86	-100.86	423.70	-142.42	1.58
115	5/12/2020 13:52	5/12/2020 13:56	0:04:09	4.80	-97.94	423.86	-7.90	-88.94	425.52	-142.46	1.54
116	5/12/2020 14:29	5/12/2020 14:34	0:04:40	-30.70	48.42	431.99	-17.45	60.77	427.48	-142.75	1.25
117	5/12/2020 14:36	5/12/2020 14:44	0:08:09	-12.98	64.26	426.26	11.84	82.13	423.30	-141.40	2.60
118	5/12/2020 14:47	5/12/2020 14:58	0:11:09	20.26	88.80	423.81	47.36	127.81	429.05	-141.44	2.56
119	5/12/2020 14:59	5/12/2020 15:04	0:05:01	48.59	132.04	429.36	51.75	160.74	430.20	-142.76	1.24
120	5/12/2020 15:04	5/12/2020 15:11	0:06:49	51.63	163.73	430.18	42.73	-160.91	428.16	-143.27	0.73
121	5/12/2020 15:12	5/12/2020 15:24	0:12:00	41.30	-158.18	427.84	8.29	-124.07	423.78	-142.40	1.60
122	5/12/2020 15:25	5/12/2020 15:29	0:04:20	5.25	-121.88	423.90	-7.97	-112.52	425.58	-142.25	1.75

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^2/4kHz)	PFD Non-Compliance (dB)
123	5/12/2020 15:43	5/12/2020 15:46	0:03:30	-44.48	-71.70	437.63	-49.85	-54.31	439.68	-140.98	3.02
124	5/12/2020 15:49	5/12/2020 16:01	0:11:39	-51.75	-36.99	440.36	-35.00	19.62	433.56	-143.03	0.97
125	5/12/2020 16:04	5/12/2020 16:07	0:03:59	-27.91	27.75	430.86	-16.40	37.98	427.09	-142.81	1.19
126	5/12/2020 16:09	5/12/2020 16:25	0:16:01	-12.41	41.06	426.05	34.60	79.86	426.07	-141.14	2.86
127	5/12/2020 16:28	5/12/2020 16:31	0:03:00	41.37	90.13	427.58	47.13	103.47	428.99	-141.42	2.58
128	5/12/2020 16:32	5/12/2020 16:37	0:05:10	48.39	107.67	429.31	51.75	137.25	430.22	-142.91	1.09
129	5/12/2020 16:37	5/12/2020 16:44	0:06:50	51.62	140.23	430.20	42.68	175.56	428.19	-143.25	0.75
130	5/12/2020 16:45	5/12/2020 16:57	0:12:11	40.88	178.94	427.79	7.21	-146.92	423.85	-142.39	1.61
131	5/12/2020 16:58	5/12/2020 17:02	0:04:40	5.69	-145.83	423.91	-8.54	-135.73	425.71	-142.14	1.86
132	5/12/2020 17:04	5/12/2020 17:04	0:00:30	-13.06	-132.37	426.72	-14.56	-131.23	427.09	-143.81	0.19
133	5/12/2020 17:30	5/12/2020 17:41	0:10:30	-43.40	-17.72	436.84	-15.84	14.80	426.86	-142.84	1.16
134	5/12/2020 17:42	5/12/2020 17:57	0:14:57	-11.84	17.86	425.84	32.39	53.50	425.80	-140.85	3.15
135	5/12/2020 18:15	5/12/2020 18:17	0:02:30	47.08	141.26	429.33	42.38	152.54	428.25	-143.23	0.77
136	5/12/2020 18:18	5/12/2020 18:35	0:17:30	40.56	155.88	427.84	-9.49	-158.67	425.95	-142.14	1.86
137	5/12/2020 18:37	5/12/2020 18:38	0:01:09	-13.00	-156.06	426.75	-16.49	-153.36	427.65	-143.50	0.50
138	5/12/2020 18:48	5/12/2020 18:50	0:01:40	-43.84	-120.42	437.35	-46.87	-112.77	438.52	-142.44	1.56
139	5/12/2020 18:53	5/12/2020 18:53	0:00:10	-50.52	-97.86	439.89	-50.66	-96.92	439.94	-143.47	0.53
140	5/12/2020 18:55	5/12/2020 19:14	0:18:40	-51.76	-84.25	440.32	-15.40	-8.49	426.87	-142.87	1.13
141	5/12/2020 19:15	5/12/2020 19:37	0:21:31	-11.41	-5.44	425.87	47.14	56.21	429.12	-140.70	3.30
142	5/12/2020 19:37	5/12/2020 19:41	0:03:59	48.40	60.41	429.43	51.74	83.01	430.30	-142.99	1.01
143	5/12/2020 19:44	5/12/2020 19:50	0:06:00	51.02	99.82	430.17	41.98	129.68	428.12	-143.25	0.75
144	5/12/2020 19:51	5/12/2020 20:09	0:17:29	40.14	132.98	427.70	-10.05	178.12	426.02	-142.17	1.83
145	5/12/2020 20:10	5/12/2020 20:11	0:01:29	-13.07	-179.63	426.72	-17.53	-176.14	427.90	-143.38	0.62
146	5/12/2020 20:21	5/12/2020 20:24	0:02:49	-43.55	-144.67	437.18	-48.43	-131.29	439.05	-141.35	2.65
147	5/12/2020 20:28	5/12/2020 20:28	0:00:21	-51.77	-107.75	440.26	-51.80	-105.76	440.27	-143.83	0.17
148	5/12/2020 20:29	5/12/2020 20:47	0:18:11	-51.78	-102.77	440.25	-14.35	-31.30	426.55	-142.88	1.12
149	5/12/2020 20:48	5/12/2020 21:09	0:20:50	-10.84	-28.65	425.70	46.34	30.26	428.93	-141.11	2.89
150	5/12/2020 21:34	5/12/2020 21:44	0:10:31	13.19	137.79	423.87	-18.58	161.08	428.18	-142.16	1.84
151	5/12/2020 21:54	5/12/2020 21:57	0:02:30	-43.59	-168.21	437.14	-47.98	-156.51	438.81	-141.33	2.67
152	5/12/2020 22:09	5/12/2020 22:20	0:11:19	-43.69	-89.22	436.90	-13.78	-54.49	426.34	-142.88	1.12
153	5/12/2020 22:21	5/12/2020 22:42	0:21:01	-10.27	-51.85	425.51	46.94	8.35	429.13	-141.36	2.64
154	5/12/2020 22:54	5/12/2020 22:56	0:02:40	46.70	71.51	429.27	41.53	83.28	428.08	-143.24	0.76
155	5/12/2020 22:57	5/12/2020 23:18	0:20:19	39.66	86.53	427.67	-19.13	137.91	428.36	-142.19	1.81
156	5/12/2020 23:27	5/12/2020 23:27	0:00:31	-43.30	167.55	437.00	-44.29	169.71	437.39	-143.72	0.28
157	5/12/2020 23:45	5/12/2020 23:54	0:08:30	-36.51	-100.54	434.00	-12.71	-77.30	426.09	-142.88	1.12
158	5/12/2020 23:55	5/13/2020 0:15	0:20:39	-9.70	-75.06	425.41	46.70	-15.98	429.12	-141.74	2.26
159	5/13/2020 0:38	5/13/2020 0:43	0:04:51	18.02	86.74	424.17	3.46	97.62	424.08	-142.52	1.48
160	5/13/2020 0:44	5/13/2020 0:51	0:07:19	1.93	98.70	424.20	-20.17	115.16	428.64	-142.39	1.61
161	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	-142.88	1.12
162	5/13/2020 2:23	5/13/2020 2:24	0:01:20	-16.80	88.76	427.56	-20.72	91.99	428.72	-143.22	0.78
163	5/13/2020 2:33	5/13/2020 2:33	0:00:10	-43.38	120.48	437.10	-43.72	121.19	437.23	-143.93	0.07
164	5/13/2020 2:44	5/13/2020 3:00	0:16:10	-50.06	179.65	439.71	-11.59	-123.72	426.16	-142.90	1.10
165	5/13/2020 3:01	5/13/2020 3:09	0:08:30	-9.07	-121.86	425.61	16.71	-103.14	423.80	-142.32	1.68
166	5/13/2020 4:18	5/13/2020 4:33	0:15:20	-48.64	162.41	439.12	-10.52	-146.55	425.95	-142.93	1.07
167	5/13/2020 4:34	5/13/2020 4:50	0:16:00	-8.50	-145.07	425.52	37.83	-104.73	427.05	-142.22	1.78
168	5/13/2020 5:10	5/13/2020 5:22	0:12:40	38.28	-5.82	427.08	2.24	27.59	423.79	-142.57	1.43
169	5/13/2020 5:24	5/13/2020 5:31	0:07:29	-1.32	30.10	424.16	-23.73	47.39	429.48	-142.80	1.20
170	5/13/2020 5:53	5/13/2020 6:06	0:13:40	-45.70	147.91	437.91	-9.94	-169.75	425.79	-142.95	1.05
171	5/13/2020 6:07	5/13/2020 6:27	0:19:30	-7.93	-168.28	425.37	45.69	-113.25	428.83	-142.13	1.87
172	5/13/2020 6:40	5/13/2020 6:42	0:02:19	45.04	-42.24	428.64	40.17	-32.48	427.50	-143.18	0.82
173	5/13/2020 6:43	5/13/2020 6:56	0:12:51	37.83	-28.76	426.97	1.16	4.73	423.89	-142.67	1.33
174	5/13/2020 6:57	5/13/2020 7:05	0:07:51	-2.41	7.24	424.31	-25.69	25.59	430.14	-142.76	1.24
175	5/13/2020 7:07	5/13/2020 7:09	0:01:50	-31.19	31.29	432.12	-35.94	37.15	433.94	-143.36	0.64
176	5/13/2020 7:10	5/13/2020 7:11	0:01:00	-40.31	43.78	435.67	-42.49	47.77	436.54	-143.79	0.21
177	5/13/2020 7:29	5/13/2020 7:40	0:10:49	-39.05	137.54	435.19	-8.87	167.41	425.48	-142.96	1.04
178	5/13/2020 7:40	5/13/2020 7:59	0:19:11	-7.35	168.51	425.18	45.43	-137.54	428.80	-142.32	1.68
179	5/13/2020 8:01	5/13/2020 8:02	0:00:41	47.92	-130.28	429.40	48.86	-126.84	429.62	-143.28	0.72
180	5/13/2020 8:20	5/13/2020 8:29	0:08:50	26.84	-39.25	424.96	0.58	-18.49	424.06	-142.74	1.26
181	5/13/2020 8:30	5/13/2020 8:42	0:11:50	-3.49	-15.62	424.56	-37.22	15.33	434.50	-142.73	1.27
182	5/13/2020 8:43	5/13/2020 8:47	0:03:31	-39.59	18.97	435.44	-46.64	33.92	438.22	-142.66	1.34
183	5/13/2020 9:09	5/13/2020 9:32	0:23:29	-20.72	134.53	428.48	45.16	-161.82	428.70	-142.38	1.62

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^2/4kHz)	PFD Non- Compliance (dB)
184	5/13/2020 9:34	5/13/2020 9:35	0:01:10	47.71	-154.63	429.32	49.31	-148.57	429.72	-143.35	0.65
185	5/13/2020 9:58	5/13/2020 10:02	0:04:01	12.16	-50.45	423.67	0.00	-41.71	424.22	-142.79	1.21
186	5/13/2020 10:04	5/13/2020 10:21	0:17:00	-4.58	-38.48	424.84	-48.23	15.37	438.97	-140.86	3.14
187	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	-142.46	1.54
188	5/13/2020 11:22	5/13/2020 11:35	0:13:01	36.85	-98.22	426.80	-0.58	-64.93	424.29	-142.84	1.16
189	5/13/2020 11:37	5/13/2020 11:39	0:02:09	-5.66	-61.33	425.04	-12.23	-56.54	426.39	-143.31	0.69
190	5/13/2020 11:40	5/13/2020 11:53	0:13:51	-13.73	-55.40	426.76	-48.03	-8.99	438.92	-140.67	3.33
191	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	-142.93	1.07
192	5/13/2020 12:49	5/13/2020 12:54	0:04:59	48.45	-146.82	429.37	38.80	-124.75	427.19	-143.16	0.84
193	5/13/2020 12:55	5/13/2020 13:06	0:10:19	36.38	-121.19	426.68	6.98	-93.90	423.74	-143.19	0.81
194	5/13/2020 13:10	5/13/2020 13:12	0:02:00	-6.75	-84.18	425.28	-12.80	-79.73	426.59	-143.37	0.63
195	5/13/2020 13:13	5/13/2020 13:29	0:16:31	-14.79	-78.21	427.10	-51.22	-16.05	440.19	-140.43	3.57
196	5/13/2020 13:32	5/13/2020 13:45	0:12:19	-51.60	1.75	440.30	-29.02	55.83	431.32	-142.93	1.07
197	5/13/2020 13:48	5/13/2020 14:11	0:23:39	-21.01	63.40	428.54	45.28	127.61	428.58	-142.75	1.25
198	5/13/2020 14:15	5/13/2020 14:28	0:12:11	50.88	149.28	429.99	38.35	-147.69	427.23	-143.01	0.99
199	5/13/2020 14:28	5/13/2020 14:42	0:13:19	36.33	-144.74	426.80	-2.24	-111.01	424.63	-142.93	1.07
200	5/13/2020 14:43	5/13/2020 14:46	0:02:10	-7.32	-107.39	425.46	-13.86	-102.55	426.92	-143.39	0.61
201	5/13/2020 14:46	5/13/2020 14:52	0:06:00	-16.34	-100.62	427.58	-33.24	-84.43	433.24	-141.40	2.60
202	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	-140.75	3.25
203	5/13/2020 15:05	5/13/2020 15:34	0:28:10	-51.59	-21.75	440.25	18.24	69.09	440.65	-142.99	1.01
204	5/13/2020 15:35	5/13/2020 15:38	0:02:50	22.60	72.80	443.67	30.50	80.57	449.93	-143.31	0.69
205	5/13/2020 15:41	5/13/2020 15:43	0:02:30	37.73	89.74	456.52	43.29	99.43	462.24	-143.45	0.55
206	5/13/2020 15:50	5/13/2020 15:50	0:00:00	51.73	135.84	475.33	51.73	135.84	475.33	-143.99	0.01
207	5/13/2020 16:13	5/13/2020 16:13	0:00:20	4.04	-139.17	471.57	3.04	-138.46	471.25	-143.86	0.14
208	5/13/2020 16:21	5/13/2020 16:30	0:08:50	-19.37	-121.91	464.57	-42.31	-94.47	457.15	-141.35	2.65
209	5/13/2020 16:33	5/13/2020 16:35	0:02:21	-47.53	-81.65	454.34	-50.43	-69.29	451.75	-141.31	2.69
210	5/13/2020 16:39	5/13/2020 17:07	0:28:09	-51.54	-44.80	446.50	18.64	45.65	440.77	-142.93	1.07
211	5/13/2020 17:09	5/13/2020 17:17	0:07:30	23.94	50.24	444.52	42.88	74.84	461.67	-143.19	0.81
212	5/13/2020 17:25	5/13/2020 17:25	0:00:00	51.78	117.81	476.52	51.78	117.81	476.52	-143.93	0.07
213	5/13/2020 17:55	5/13/2020 18:03	0:08:10	-21.20	-144.12	486.16	-42.12	-118.60	494.97	-141.93	2.07
214	5/13/2020 18:05	5/13/2020 18:06	0:01:00	-45.08	-112.23	496.27	-46.82	-107.61	497.03	-143.20	0.80
215	5/13/2020 18:22	5/13/2020 18:22	0:00:40	-38.37	-27.16	488.34	-36.78	-24.82	487.61	-143.93	0.07
216	5/13/2020 18:45	5/13/2020 18:50	0:04:31	29.38	31.67	479.08	40.57	46.60	482.26	-143.66	0.34
217	5/13/2020 19:30	5/13/2020 19:38	0:07:40	-22.76	-166.69	487.93	-42.22	-142.35	493.74	-142.17	1.83
218	5/13/2020 19:39	5/13/2020 19:41	0:01:59	-44.87	-136.70	494.49	-48.17	-127.23	495.33	-142.49	1.51
219	5/13/2020 19:56	5/13/2020 19:57	0:00:50	-38.29	-50.93	488.28	-36.29	-48.03	487.37	-143.93	0.07
220	5/13/2020 20:19	5/13/2020 20:24	0:05:01	29.48	7.87	479.08	41.74	24.79	482.63	-143.64	0.36
221	5/13/2020 21:05	5/13/2020 21:12	0:06:50	-25.21	171.65	488.58	-42.30	-166.11	493.70	-142.35	1.65
222	5/13/2020 21:13	5/13/2020 21:15	0:02:31	-44.62	-161.18	494.36	-48.68	-149.25	495.37	-142.61	1.39
223	5/13/2020 21:30	5/13/2020 21:31	0:00:49	-37.80	-74.11	487.98	-35.78	-71.25	487.06	-143.93	0.07
224	5/13/2020 21:54	5/13/2020 21:59	0:05:00	30.03	-15.45	479.21	42.18	1.70	482.80	-143.61	0.39
225	5/13/2020 23:04	5/13/2020 23:05	0:00:50	-37.31	-97.31	487.74	-35.27	-94.49	486.82	-143.92	0.08
226	5/13/2020 23:28	5/13/2020 23:33	0:05:10	30.13	-39.25	479.27	42.61	-21.37	482.99	-143.58	0.42
227	5/14/2020 1:49	5/14/2020 1:52	0:02:49	-29.18	103.87	489.73	-36.49	112.67	491.99	-143.04	0.96
228	5/14/2020 2:13	5/14/2020 2:14	0:00:41	-36.33	-143.74	487.65	-34.67	-141.53	486.91	-143.91	0.09
229	5/14/2020 3:26	5/14/2020 3:28	0:02:00	-36.17	88.32	491.81	-40.83	95.54	493.27	-143.01	0.99
230	5/14/2020 3:28	5/14/2020 3:33	0:04:29	-41.91	97.51	493.60	-49.49	118.51	495.64	-142.92	1.08
231	5/14/2020 3:47	5/14/2020 3:48	0:00:41	-35.83	-166.96	487.46	-34.16	-164.78	486.73	-143.92	0.08
232	5/14/2020 4:11	5/14/2020 4:13	0:02:01	32.18	-108.68	479.92	37.22	-102.16	481.31	-143.59	0.41
233	5/14/2020 5:22	5/14/2020 5:22	0:00:39	-35.32	169.81	487.19	-33.64	171.96	486.45	-143.92	0.08
234	5/14/2020 6:56	5/14/2020 6:57	0:00:50	-35.23	146.02	487.07	-33.11	148.69	486.15	-143.91	0.09
235	5/14/2020 7:20	5/14/2020 7:23	0:03:29	33.67	-154.70	480.28	41.94	-142.21	482.76	-143.67	0.33
236	5/14/2020 7:27	5/14/2020 7:28	0:01:00	47.75	-127.99	484.81	49.12	-122.88	485.36	-143.61	0.39
237	5/14/2020 8:08	5/14/2020 8:10	0:01:40	-36.85	17.54	491.99	-40.71	23.60	493.18	-142.76	1.24
238	5/14/2020 8:54	5/14/2020 8:58	0:03:21	34.20	-177.96	480.38	42.02	-165.97	482.76	-143.71	0.29
239	5/14/2020 9:01	5/14/2020 9:02	0:01:11	47.55	-152.54	484.72	49.17	-146.59	485.37	-143.49	0.51
240	5/14/2020 9:43	5/14/2020 9:44	0:01:49	-37.34	-5.66	492.29	-41.52	1.14	493.58	-142.68	1.32
241	5/14/2020 9:46	5/14/2020 9:49	0:03:01	-44.24	6.66	494.38	-49.07	21.02	495.62	-143.43	0.57
242	5/14/2020 10:29	5/14/2020 10:32	0:03:09	35.13	159.33	480.47	42.45	170.95	482.73	-143.74	0.26
243	5/14/2020 11:17	5/14/2020 11:19	0:01:40	-38.22	-28.27	492.63	-41.96	-21.96	493.78	-142.71	1.29
244	5/14/2020 11:20	5/14/2020 11:23	0:02:40	-44.94	-15.62	494.64	-49.12	-2.69	495.69	-143.55	0.45

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 ² /4kHz)	PFD Non- Compliance (dB)
245	5/14/2020 11:39	5/14/2020 11:40	0:00:51	-33.68	76.26	486.38	-31.51	78.83	485.44	-143.90	0.10
246	5/14/2020 11:52	5/14/2020 11:52	0:00:00	4.93	108.39	476.29	4.93	108.39	476.29	-143.99	0.01
247	5/14/2020 12:03	5/14/2020 12:06	0:03:09	35.64	136.10	480.52	42.88	147.89	482.77	-143.81	0.19
248	5/14/2020 12:09	5/14/2020 12:09	0:00:29	47.15	158.38	484.29	47.92	160.84	484.59	-142.99	1.01
249	5/14/2020 12:51	5/14/2020 12:53	0:01:40	-38.70	-51.44	492.86	-42.39	-45.04	493.98	-142.91	1.09
250	5/14/2020 12:55	5/14/2020 12:55	0:00:39	-45.61	-37.86	494.90	-46.75	-34.75	495.21	-143.82	0.18
251	5/14/2020 13:38	5/14/2020 13:40	0:02:29	36.56	113.44	480.84	42.26	122.76	482.65	-143.88	0.12
252	5/14/2020 13:43	5/14/2020 13:44	0:01:40	46.94	133.85	484.32	49.31	142.28	485.27	-143.03	0.97
253	5/14/2020 14:48	5/14/2020 14:48	0:00:50	-32.63	29.71	485.91	-30.43	32.22	484.98	-143.88	0.12
254	5/14/2020 15:01	5/14/2020 15:01	0:00:20	6.16	61.45	476.22	7.16	62.17	476.20	-143.96	0.04
255	5/14/2020 15:12	5/14/2020 15:13	0:01:20	37.45	90.81	481.08	40.54	95.70	482.05	-143.94	0.06
256	5/14/2020 15:17	5/14/2020 15:17	0:00:30	47.00	110.11	484.32	47.78	112.56	484.62	-143.40	0.60
257	5/14/2020 16:35	5/14/2020 16:36	0:00:11	7.27	38.34	476.15	7.77	38.70	476.15	-143.94	0.06
258	5/14/2020 17:35	5/14/2020 17:36	0:01:20	-40.47	-120.28	493.43	-43.29	-114.94	494.26	-143.48	0.52
259	5/14/2020 17:56	5/14/2020 17:57	0:01:01	-32.00	-17.37	485.53	-29.34	-14.42	484.41	-143.87	0.13
260	5/14/2020 18:10	5/14/2020 18:10	0:00:19	7.88	14.87	476.11	8.88	15.59	476.12	-143.92	0.08
261	5/14/2020 19:30	5/14/2020 19:31	0:00:59	-31.46	-40.66	485.28	-28.79	-37.75	484.16	-143.87	0.13
262	5/14/2020 19:44	5/14/2020 19:45	0:00:20	9.00	-8.23	476.10	10.00	-7.50	476.13	-143.89	0.11
263	5/14/2020 21:05	5/14/2020 21:06	0:01:10	-30.92	-63.96	484.98	-27.77	-60.62	483.68	-143.87	0.13
264	5/14/2020 21:19	5/14/2020 21:19	0:00:09	10.11	-31.33	476.09	10.61	-30.96	476.11	-143.90	0.10
265	5/14/2020 22:39	5/14/2020 22:40	0:01:11	-30.37	-87.27	484.74	-27.21	-83.96	483.45	-143.86	0.14
266	5/14/2020 22:53	5/14/2020 22:53	0:00:00	11.22	-54.42	476.14	11.22	-54.42	476.14	-143.97	0.03
267	5/15/2020 0:13	5/15/2020 0:15	0:01:10	-29.82	-110.58	484.63	-26.64	-107.32	483.36	-143.86	0.14
268	5/15/2020 1:48	5/15/2020 1:49	0:01:10	-29.28	-133.91	484.63	-26.08	-130.68	483.36	-143.87	0.13
269	5/15/2020 3:12	5/15/2020 3:12	0:00:11	-49.65	163.00	494.26	-49.46	163.89	494.15	-143.99	0.01
270	5/15/2020 3:21	5/15/2020 3:21	0:00:00	-32.71	-161.67	486.13	-32.71	-161.67	486.13	-144.00	0.00
271	5/15/2020 3:22	5/15/2020 3:23	0:01:09	-28.72	-157.24	484.46	-25.51	-154.05	483.20	-143.86	0.14
272	5/15/2020 4:46	5/15/2020 4:47	0:00:20	-49.41	140.18	494.06	-49.00	141.93	493.83	-143.96	0.04
273	5/15/2020 4:55	5/15/2020 4:55	0:00:11	-32.18	175.05	485.86	-31.74	175.56	485.67	-143.98	0.02
274	5/15/2020 4:56	5/15/2020 4:58	0:01:10	-28.17	179.42	484.20	-24.94	-177.42	482.95	-143.86	0.14
275	5/15/2020 5:21	5/15/2020 5:21	0:00:00	42.35	-116.17	482.63	42.35	-116.17	482.63	-144.00	0.00
276	5/15/2020 6:21	5/15/2020 6:21	0:00:41	-49.37	116.48	493.97	-48.51	119.95	493.51	-143.95	0.05
277	5/15/2020 6:29	5/15/2020 6:29	0:00:10	-31.64	151.76	485.56	-31.20	152.26	485.37	-143.98	0.02
278	5/15/2020 6:31	5/15/2020 6:32	0:01:20	-27.61	156.09	483.90	-23.89	159.64	482.49	-143.86	0.14
279	5/15/2020 8:05	5/15/2020 8:06	0:01:20	-27.04	132.74	483.61	-23.31	136.26	482.21	-143.85	0.15
280	5/15/2020 11:12	5/15/2020 11:12	0:00:00	-29.56	82.33	484.64	-29.56	82.33	484.64	-143.98	0.02
281	5/15/2020 11:14	5/15/2020 11:15	0:01:29	-25.91	86.03	483.16	-21.67	89.89	481.59	-143.83	0.17
282	5/15/2020 15:58	5/15/2020 15:58	0:00:39	-21.35	18.45	481.38	-19.43	20.08	480.72	-143.81	0.19
283	5/15/2020 17:20	5/15/2020 17:22	0:01:51	-48.14	-46.08	493.36	-45.13	-37.35	491.78	-143.86	0.14
284	5/15/2020 17:31	5/15/2020 17:33	0:01:29	-23.14	-7.04	481.99	-18.83	-3.34	480.50	-143.80	0.20
285	5/15/2020 18:49	5/15/2020 18:50	0:01:39	-51.67	-102.64	496.10	-51.71	-92.83	495.71	-143.18	0.82
286	5/15/2020 18:55	5/15/2020 18:57	0:01:50	-47.84	-68.96	493.19	-44.75	-60.34	491.58	-143.84	0.16
287	5/15/2020 19:06	5/15/2020 19:07	0:01:31	-22.56	-30.43	481.76	-18.24	-26.76	480.28	-143.80	0.20
288	5/15/2020 19:15	5/15/2020 19:15	0:00:00	5.20	-9.61	475.98	5.20	-9.61	475.98	-143.97	0.03
289	5/15/2020 20:23	5/15/2020 20:25	0:01:51	-51.68	-126.32	496.01	-51.65	-115.53	495.54	-143.13	0.87
290	5/15/2020 20:29	5/15/2020 20:31	0:02:11	-47.78	-92.67	493.07	-44.04	-82.63	491.13	-143.83	0.17
291	5/15/2020 20:40	5/15/2020 20:42	0:01:40	-21.97	-53.82	481.48	-17.15	-49.79	479.88	-143.80	0.20
292	5/15/2020 20:49	5/15/2020 20:49	0:00:11	5.82	-33.08	475.92	6.33	-32.72	475.91	-143.97	0.03
293	5/15/2020 22:14	5/15/2020 22:16	0:01:39	-21.38	-77.22	481.27	-16.54	-73.22	479.69	-143.80	0.20
294	5/15/2020 22:24	5/15/2020 22:24	0:00:10	6.45	-56.55	475.91	6.95	-56.19	475.90	-143.89	0.11
295	5/15/2020 23:37	5/15/2020 23:40	0:02:29	-47.41	-139.29	492.95	-42.89	-128.01	490.64	-143.81	0.19
296	5/15/2020 23:49	5/15/2020 23:50	0:01:49	-20.79	-100.63	481.18	-15.45	-96.27	479.49	-143.79	0.21
297	5/15/2020 23:58	5/15/2020 23:58	0:00:11	7.56	-79.66	476.02	8.06	-79.30	476.02	-143.85	0.15
298	5/16/2020 0:33	5/16/2020 0:33	0:00:00	28.31	60.42	483.17	28.31	60.42	483.17	-143.99	0.01
299	5/16/2020 1:12	5/16/2020 1:14	0:02:40	-47.06	-162.11	490.87	-42.07	-150.31	488.53	-143.77	0.23
300	5/16/2020 1:23	5/16/2020 1:25	0:01:49	-20.13	-123.97	479.91	-14.78	-119.65	478.40	-143.77	0.23
301	5/16/2020 1:32	5/16/2020 1:33	0:00:11	8.25	-103.06	475.63	8.75	-102.70	475.64	-143.85	0.15
302	5/16/2020 2:07	5/16/2020 2:07	0:00:00	27.68	37.15	482.87	27.68	37.15	482.87	-143.99	0.01
303	5/16/2020 2:46	5/16/2020 2:49	0:02:50	-46.95	174.30	490.85	-41.58	-173.29	488.35	-143.76	0.24
304	5/16/2020 2:57	5/16/2020 2:59	0:01:50	-19.47	-147.32	479.78	-14.10	-143.03	478.29	-143.77	0.23
305	5/16/2020 4:21	5/16/2020 4:23	0:02:01	-44.81	156.08	489.77	-40.71	164.36	487.91	-143.75	0.25

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 ² /4kHz)	PFD Non-Compliance (dB)
306	5/16/2020 4:32	5/16/2020 4:34	0:02:00	-18.80	-170.66	479.54	-12.92	-166.04	477.98	-143.77	0.23
307	5/16/2020 4:41	5/16/2020 4:41	0:00:11	10.13	-149.50	475.73	10.63	-149.13	475.75	-143.85	0.15
308	5/16/2020 5:16	5/16/2020 5:16	0:00:09	26.41	-9.39	482.61	25.95	-8.95	482.55	-143.97	0.03
309	5/16/2020 5:57	5/16/2020 5:58	0:00:10	-40.57	140.71	487.77	-40.20	141.35	487.61	-143.95	0.05
310	5/16/2020 6:06	5/16/2020 6:08	0:01:59	-18.12	165.99	479.28	-12.23	170.58	477.76	-143.76	0.24
311	5/16/2020 6:50	5/16/2020 6:50	0:00:10	25.76	-32.67	482.60	25.30	-32.23	482.53	-143.98	0.02
312	5/16/2020 7:28	5/16/2020 7:32	0:03:40	-46.64	103.52	490.53	-39.30	118.93	487.15	-143.72	0.28
313	5/16/2020 7:40	5/16/2020 7:42	0:02:00	-17.45	142.63	479.01	-11.54	147.19	477.53	-143.76	0.24
314	5/16/2020 7:50	5/16/2020 7:50	0:00:19	11.52	163.72	475.69	12.51	164.46	475.76	-143.88	0.12
315	5/16/2020 9:24	5/16/2020 9:25	0:00:20	12.21	140.33	475.62	13.20	141.08	475.69	-143.85	0.15
316	5/16/2020 10:40	5/16/2020 10:41	0:01:11	-40.88	68.46	487.94	-38.22	72.80	486.74	-143.78	0.22
317	5/16/2020 10:49	5/16/2020 10:51	0:02:10	-16.09	95.90	478.55	-9.66	100.77	477.02	-143.75	0.25
318	5/16/2020 10:59	5/16/2020 10:59	0:00:20	13.39	117.32	475.61	14.38	118.08	475.69	-143.86	0.14
319	5/16/2020 11:33	5/16/2020 11:34	0:00:10	23.34	-102.13	482.32	22.87	-101.71	482.27	-143.97	0.03
320	5/16/2020 12:14	5/16/2020 12:15	0:01:10	-39.99	46.08	487.57	-37.27	50.30	486.35	-143.80	0.20
321	5/16/2020 12:23	5/16/2020 12:25	0:02:11	-15.41	72.53	478.37	-8.97	77.38	476.88	-143.74	0.26
322	5/16/2020 12:33	5/16/2020 12:33	0:00:19	14.08	93.94	475.67	15.06	94.70	475.76	-143.88	0.12
323	5/16/2020 13:08	5/16/2020 13:08	0:00:20	22.68	-125.45	482.38	21.73	-124.61	482.28	-143.97	0.03
324	5/16/2020 16:17	5/16/2020 16:17	0:00:10	20.89	-171.69	482.28	20.41	-171.28	482.23	-143.97	0.03
325	5/16/2020 16:49	5/16/2020 16:50	0:01:21	-51.48	-63.70	493.30	-50.61	-56.08	492.69	-143.89	0.11
326	5/16/2020 16:55	5/16/2020 16:58	0:03:50	-43.82	-32.90	489.20	-35.17	-18.51	485.28	-143.69	0.31
327	5/16/2020 17:06	5/16/2020 17:09	0:02:11	-12.87	2.77	477.58	-6.39	7.53	476.27	-143.73	0.27
328	5/16/2020 17:51	5/16/2020 17:51	0:00:20	20.22	164.98	482.20	19.26	165.78	482.11	-143.97	0.03
329	5/16/2020 18:31	5/16/2020 18:33	0:01:51	-39.03	-47.97	486.97	-34.59	-41.66	485.01	-143.68	0.32
330	5/16/2020 18:41	5/16/2020 18:43	0:02:19	-12.18	-20.61	477.39	-5.19	-15.52	476.06	-143.73	0.27
331	5/16/2020 18:51	5/16/2020 18:51	0:00:21	17.77	1.24	475.94	18.75	2.03	476.07	-143.85	0.15
332	5/16/2020 19:25	5/16/2020 19:26	0:00:20	19.56	141.64	482.11	18.59	142.44	482.03	-143.97	0.03
333	5/16/2020 20:05	5/16/2020 20:07	0:02:19	-39.26	-72.24	486.99	-33.57	-64.28	484.50	-143.67	0.33
334	5/16/2020 20:15	5/16/2020 20:17	0:02:19	-11.49	-44.00	477.17	-4.49	-38.93	475.90	-143.72	0.28
335	5/16/2020 20:25	5/16/2020 20:25	0:00:20	18.45	-22.11	476.01	19.42	-21.31	476.15	-143.88	0.12
336	5/16/2020 21:40	5/16/2020 21:42	0:01:30	-36.33	-91.79	485.66	-32.54	-86.95	484.05	-143.75	0.25
337	5/16/2020 21:50	5/16/2020 21:52	0:02:21	-10.30	-67.02	476.91	-3.29	-61.98	475.74	-143.72	0.28
338	5/16/2020 21:59	5/16/2020 22:00	0:00:19	19.13	-45.46	476.11	20.09	-44.65	476.26	-143.87	0.13
339	5/16/2020 22:34	5/16/2020 22:34	0:00:20	17.72	95.33	482.03	16.75	96.12	481.96	-143.96	0.04
340	5/16/2020 23:24	5/16/2020 23:26	0:02:19	-9.61	-90.42	476.88	-2.59	-85.39	475.77	-143.72	0.28

Max. Exceedance: 3.81 dB

Table 2 Departure (TRDS SMA - 6M16G1D) PFD Exceedances

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /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	-139.83	4.17
2	5/11/2020 22:06	5/11/2020 22:19	0:12:40	46.38	90.45	429.10	14.05	131.54	423.89	-140.60	3.40
3	5/11/2020 22:20	5/11/2020 22:26	0:06:00	10.54	134.18	423.82	-7.74	147.21	425.54	-140.20	3.80
4	5/11/2020 22:29	5/11/2020 22:38	0:09:40	-15.76	153.23	427.39	-41.59	-177.75	436.37	-138.39	5.61
5	5/11/2020 22:40	5/11/2020 22:52	0:11:50	-44.65	-171.40	437.55	-47.98	-106.31	438.64	-140.95	3.05
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	-139.84	4.16
7	5/11/2020 23:39	5/11/2020 23:52	0:13:40	47.69	62.86	429.49	13.48	108.34	423.92	-140.70	3.30
8	5/11/2020 23:53	5/12/2020 0:11	0:18:01	9.97	110.97	423.86	-41.27	158.04	436.22	-138.60	5.40
9	5/12/2020 0:13	5/12/2020 0:18	0:05:00	-44.38	164.33	437.42	-51.12	-169.88	439.95	-140.59	3.41
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	-139.85	4.15
11	5/12/2020 1:02	5/12/2020 1:25	0:22:59	49.20	-12.84	429.77	12.92	85.14	423.85	-140.52	3.48
12	5/12/2020 1:27	5/12/2020 1:44	0:17:40	9.40	87.76	423.80	-40.95	133.84	436.13	-139.11	4.89
13	5/12/2020 1:46	5/12/2020 1:57	0:10:51	-44.09	140.07	437.37	-49.67	-160.35	439.46	-140.15	3.85
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	-140.29	3.71
15	5/12/2020 2:38	5/12/2020 2:59	0:20:20	51.57	-20.27	430.31	12.35	61.94	423.66	-140.69	3.31
16	5/12/2020 3:00	5/12/2020 3:03	0:03:20	8.83	64.55	423.64	-1.33	71.77	424.34	-140.66	3.34
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	-139.73	4.27
18	5/12/2020 3:19	5/12/2020 4:02	0:43:41	-44.13	116.53	437.40	37.88	-86.60	427.03	-139.62	4.38
19	5/12/2020 4:05	5/12/2020 4:32	0:26:29	44.11	-75.33	428.45	11.79	38.74	423.49	-139.80	4.20
20	5/12/2020 4:33	5/12/2020 4:43	0:09:59	8.26	41.33	423.49	-21.88	63.78	428.93	-139.19	4.81
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	-139.37	4.63
22	5/12/2020 5:49	5/12/2020 6:05	0:15:31	49.19	-37.27	429.63	11.22	15.53	423.44	-140.66	3.34
23	5/12/2020 6:06	5/12/2020 6:23	0:17:29	8.19	17.76	423.45	-41.46	63.88	436.17	-139.13	4.87
24	5/12/2020 6:25	5/12/2020 6:26	0:00:59	-44.54	70.20	437.41	-46.36	74.80	438.13	-141.44	2.56
25	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	-139.66	4.34
26	5/12/2020 7:27	5/12/2020 7:38	0:10:39	40.06	-37.89	427.44	10.65	-7.67	423.46	-140.65	3.35
27	5/12/2020 7:39	5/12/2020 7:56	0:17:20	7.62	-5.45	423.49	-41.51	40.34	436.17	-139.49	4.51
28	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	-140.60	3.40
29	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	-139.61	4.39
30	5/12/2020 9:07	5/12/2020 9:11	0:04:30	23.39	-41.59	424.46	10.08	-30.87	423.57	-140.66	3.34
31	5/12/2020 9:12	5/12/2020 9:17	0:05:11	7.55	-29.03	423.61	-8.20	-17.84	425.39	-140.64	3.36
32	5/12/2020 9:18	5/12/2020 9:30	0:11:50	-9.71	-16.74	425.70	-41.92	17.48	436.40	-140.41	3.59
33	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	-139.34	4.66
34	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	-141.30	2.70
35	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	-139.66	4.34
36	5/12/2020 10:22	5/12/2020 10:44	0:22:01	51.21	-142.66	430.12	9.50	-54.08	423.64	-140.64	3.36
37	5/12/2020 10:45	5/12/2020 11:03	0:17:30	7.48	-52.61	423.67	-41.97	-6.06	436.57	-140.67	3.33
38	5/12/2020 11:04	5/12/2020 11:16	0:12:39	-44.35	-1.12	437.51	-46.93	68.02	438.42	-139.32	4.68
39	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	-140.10	3.90
40	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	-139.64	4.36
41	5/12/2020 12:01	5/12/2020 12:34	0:32:49	49.29	-132.18	429.53	-38.64	-35.39	435.26	-140.63	3.37
42	5/12/2020 12:35	5/12/2020 12:36	0:00:59	-40.18	-32.89	435.86	-42.37	-28.91	436.73	-143.13	0.87
43	5/12/2020 12:36	5/12/2020 12:37	0:00:30	-44.07	-25.37	437.40	-45.03	-23.15	437.78	-141.72	2.28
44	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	-139.84	4.16
45	5/12/2020 13:33	5/12/2020 14:00	0:27:10	50.65	-163.05	429.88	-19.85	-79.71	428.57	-140.62	3.38
46	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	-139.60	4.40
47	5/12/2020 14:47	5/12/2020 15:39	0:52:40	20.26	88.80	423.81	-37.14	-84.87	434.75	-139.64	4.36
48	5/12/2020 15:41	5/12/2020 15:46	0:05:10	-41.02	-78.67	436.27	-49.85	-54.31	439.68	-139.18	4.82
49	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	-141.23	2.77
50	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	-139.34	4.66
51	5/12/2020 16:28	5/12/2020 17:07	0:39:39	41.37	90.13	427.58	-23.83	-123.48	429.84	-139.62	4.38
52	5/12/2020 17:08	5/12/2020 17:12	0:04:00	-26.19	-121.26	430.64	-36.79	-109.00	434.56	-142.52	1.48
53	5/12/2020 17:14	5/12/2020 17:15	0:00:50	-41.80	-100.88	436.51	-43.54	-97.41	437.19	-142.55	1.45
54	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	-139.05	4.95
55	5/12/2020 18:15	5/12/2020 18:45	0:30:29	47.08	141.26	429.33	-36.74	-132.71	434.58	-140.34	3.66
56	5/12/2020 18:47	5/12/2020 18:50	0:02:40	-41.76	-124.60	436.54	-46.87	-112.77	438.52	-140.64	3.36
57	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	-138.90	5.10
58	5/12/2020 19:44	5/12/2020 20:12	0:28:00	51.02	99.82	430.17	-20.95	-173.30	428.92	-140.37	3.63
59	5/12/2020 20:13	5/12/2020 20:18	0:04:51	-23.84	-170.75	429.84	-36.80	-156.27	434.55	-142.41	1.59
60	5/12/2020 20:20	5/12/2020 20:24	0:03:50	-41.45	-148.81	436.36	-48.43	-131.29	439.05	-139.55	4.45
61	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	-139.31	4.69

Table 2 Departure (TRDS SMA - 6M16G1D) PFD Exceedances

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
62	5/12/2020 21:34	5/12/2020 21:46	0:11:50	13.19	137.79	423.87	-22.46	164.39	429.37	-140.36	3.64
63	5/12/2020 21:46	5/12/2020 21:51	0:04:29	-24.37	166.12	429.99	-36.44	179.61	434.37	-142.34	1.66
64	5/12/2020 21:53	5/12/2020 21:57	0:03:31	-41.49	-172.35	436.32	-47.98	-156.51	438.81	-139.53	4.47
65	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	-139.56	4.44
66	5/12/2020 22:54	5/12/2020 23:24	0:30:01	46.70	71.51	429.27	-36.08	155.49	434.22	-140.39	3.61
67	5/12/2020 23:26	5/12/2020 23:27	0:01:30	-41.18	163.44	436.18	-44.29	169.71	437.39	-141.92	2.08
68	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	-139.94	4.06
69	5/13/2020 0:38	5/13/2020 0:53	0:14:50	18.02	86.74	424.17	-26.38	120.77	430.66	-140.59	3.41
70	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	-141.08	2.92
71	5/13/2020 2:23	5/13/2020 2:30	0:06:50	-16.80	88.76	427.56	-35.77	107.81	434.09	-141.42	2.58
72	5/13/2020 2:32	5/13/2020 2:33	0:01:31	-40.53	115.05	435.97	-43.72	121.19	437.23	-142.13	1.87
73	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	-140.52	3.48
74	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	-140.42	3.58
75	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	-140.77	3.23
76	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	-140.33	3.67
77	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	-140.87	3.13
78	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	-140.52	3.48
79	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	-140.86	3.14
80	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	-140.58	3.42
81	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	-139.06	4.94
82	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	-140.66	3.34
83	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	-138.87	5.13
84	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	-141.13	2.87
85	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	-141.36	2.64
86	5/13/2020 13:09	5/13/2020 13:45	0:36:09	-1.67	-87.79	424.47	-29.02	55.83	431.32	-138.63	5.37
87	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	-140.95	3.05
88	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	-139.60	4.40
89	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	-138.95	5.05
90	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	-141.19	2.81
91	5/13/2020 15:41	5/13/2020 16:30	0:49:01	37.73	89.74	456.52	-42.31	-94.47	457.15	-139.55	4.45
92	5/13/2020 16:33	5/13/2020 17:17	0:44:10	-47.53	-81.65	454.34	43.22	75.54	462.04	-139.51	4.49
93	5/13/2020 17:20	5/13/2020 18:06	0:45:50	48.64	90.40	468.71	-46.82	-107.61	497.03	-140.13	3.87
94	5/13/2020 18:08	5/13/2020 18:10	0:01:50	-50.30	-93.86	498.51	-51.55	-83.44	499.02	-142.78	1.22
95	5/13/2020 18:12	5/13/2020 18:50	0:37:28	-51.71	-71.69	499.08	40.57	46.60	482.26	-141.86	2.14
96	5/13/2020 19:07	5/13/2020 19:41	0:33:40	41.43	135.81	486.28	-48.17	-127.23	495.33	-140.37	3.63
97	5/13/2020 19:47	5/13/2020 20:36	0:49:10	-51.70	-95.31	495.36	50.44	85.02	487.29	-141.84	2.16
98	5/13/2020 20:47	5/13/2020 21:15	0:28:30	27.63	130.15	484.23	-48.68	-149.25	495.37	-140.55	3.45
99	5/13/2020 21:27	5/13/2020 22:01	0:34:41	-45.23	-88.10	491.52	46.88	12.76	484.49	-141.81	2.19
100	5/13/2020 23:03	5/13/2020 23:35	0:32:40	-41.50	-104.11	489.69	46.67	-11.77	484.45	-141.78	2.22
101	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	-142.28	1.72
102	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	-142.35	1.65
103	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	-142.24	1.76
104	5/14/2020 1:42	5/14/2020 1:43	0:00:41	-10.05	87.51	484.88	-12.03	88.98	485.26	-143.80	0.20
105	5/14/2020 1:43	5/14/2020 1:52	0:08:10	-14.01	90.48	485.68	-36.49	112.67	491.99	-141.24	2.76
106	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	-142.11	1.89
107	5/14/2020 3:26	5/14/2020 3:36	0:10:00	-36.17	88.32	491.81	-51.68	135.44	495.84	-141.12	2.88
108	5/14/2020 3:37	5/14/2020 4:13	0:36:21	-51.78	142.31	495.63	37.22	-102.16	481.31	-141.79	2.21
109	5/14/2020 4:46	5/14/2020 4:51	0:05:00	2.25	30.93	483.02	-12.75	41.69	485.19	-142.29	1.71
110	5/14/2020 4:53	5/14/2020 4:57	0:04:20	-17.16	45.12	486.20	-29.38	56.26	489.61	-143.23	0.77
111	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	-142.12	1.88
112	5/14/2020 6:05	5/14/2020 6:26	0:20:11	42.98	-34.57	486.27	-13.35	18.24	485.32	-142.34	1.66
113	5/14/2020 6:27	5/14/2020 6:33	0:05:39	-18.24	22.09	486.46	-33.86	37.48	490.99	-142.29	1.71
114	5/14/2020 6:54	5/14/2020 7:28	0:34:00	-39.99	138.98	489.22	49.53	-121.11	485.53	-141.81	2.19
115	5/14/2020 7:46	5/14/2020 8:00	0:14:09	27.83	-37.43	484.04	-13.96	-5.20	485.54	-142.34	1.66
116	5/14/2020 8:02	5/14/2020 8:10	0:08:00	-19.80	-0.53	486.94	-40.71	23.60	493.18	-140.96	3.04
117	5/14/2020 8:33	5/14/2020 9:03	0:29:51	-27.22	131.22	483.68	50.43	-140.26	485.94	-141.69	2.31
118	5/14/2020 9:25	5/14/2020 9:34	0:09:00	12.40	-48.12	482.92	-14.56	-28.65	485.80	-142.36	1.64
119	5/14/2020 9:37	5/14/2020 9:49	0:12:10	-21.34	-23.13	487.49	-49.07	21.02	495.62	-140.88	3.12
120	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	-141.94	2.06
121	5/14/2020 10:46	5/14/2020 11:09	0:22:20	45.93	-113.11	486.68	-15.16	-52.09	485.98	-142.35	1.65
122	5/14/2020 11:11	5/14/2020 11:23	0:11:50	-22.88	-45.69	487.96	-49.32	-1.81	495.73	-140.91	3.09

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 ² /4kHz)	PFD Non- Compliance (dB)
123	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	-141.19	2.81
124	5/14/2020 12:25	5/14/2020 12:43	0:18:10	36.63	-119.56	485.25	-15.76	-75.53	486.19	-142.37	1.63
125	5/14/2020 12:46	5/14/2020 12:55	0:09:29	-24.40	-68.22	488.47	-46.75	-34.75	495.21	-141.11	2.89
126	5/14/2020 13:28	5/14/2020 14:17	0:49:40	9.05	87.45	476.24	-16.85	-98.59	486.53	-141.23	2.77
127	5/14/2020 14:20	5/14/2020 14:22	0:01:50	-24.97	-91.60	488.70	-29.99	-86.55	490.19	-143.23	0.77
128	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	-141.60	2.40
129	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	-142.62	1.38
130	5/14/2020 15:48	5/14/2020 15:52	0:04:11	-5.57	-130.92	484.32	-17.93	-121.63	486.80	-142.39	1.61
131	5/14/2020 15:55	5/14/2020 15:57	0:02:10	-25.53	-114.97	488.86	-31.41	-108.88	490.62	-143.13	0.87
132	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	-142.14	1.86
133	5/14/2020 17:10	5/14/2020 17:26	0:16:50	30.37	176.43	484.56	-19.00	-144.66	487.11	-142.42	1.58
134	5/14/2020 17:29	5/14/2020 17:37	0:07:40	-26.10	-138.34	489.05	-44.59	-112.08	494.63	-141.68	2.32
135	5/14/2020 17:47	5/14/2020 18:22	0:34:21	-49.53	-52.98	494.01	40.70	48.17	482.04	-142.07	1.93
136	5/14/2020 18:35	5/14/2020 19:01	0:26:20	49.36	115.84	487.08	-20.07	-167.67	487.37	-142.34	1.66
137	5/14/2020 19:03	5/14/2020 19:09	0:05:39	-26.67	-161.70	489.21	-40.92	-143.41	493.56	-142.27	1.73
138	5/14/2020 19:20	5/14/2020 19:59	0:39:10	-50.79	-84.00	494.78	47.44	39.74	484.40	-142.07	1.93
139	5/14/2020 20:13	5/14/2020 20:35	0:22:30	42.28	111.64	486.22	-21.14	169.33	487.62	-142.32	1.68
140	5/14/2020 20:38	5/14/2020 20:44	0:06:00	-27.23	174.95	489.33	-42.08	-165.19	493.83	-142.23	1.77
141	5/14/2020 20:55	5/14/2020 21:35	0:40:20	-50.63	-106.76	494.58	49.34	22.85	485.22	-142.07	1.93
142	5/14/2020 21:59	5/14/2020 22:10	0:10:40	9.52	122.73	483.13	-22.20	146.34	487.93	-142.46	1.54
143	5/14/2020 22:12	5/14/2020 22:22	0:09:31	-28.25	152.07	489.65	-48.81	-171.30	495.58	-142.25	1.75
144	5/14/2020 22:30	5/14/2020 23:10	0:39:30	-49.19	-123.21	493.70	49.94	1.83	485.54	-142.06	1.94
145	5/15/2020 0:07	5/15/2020 0:27	0:19:39	-44.98	-133.97	491.59	8.84	-80.08	476.20	-142.06	1.94
146	5/15/2020 1:13	5/15/2020 1:19	0:05:41	-7.75	87.18	484.58	-24.30	100.41	488.46	-142.45	1.55
147	5/15/2020 1:21	5/15/2020 2:02	0:41:30	-29.80	105.88	490.10	13.92	-100.21	476.53	-142.07	1.93
148	5/15/2020 2:32	5/15/2020 2:54	0:21:40	36.62	25.25	485.19	-25.81	77.92	488.78	-142.24	1.76
149	5/15/2020 2:55	5/15/2020 3:03	0:08:00	-30.79	83.05	490.30	-48.05	114.15	495.51	-142.80	1.20
150	5/15/2020 3:06	5/15/2020 3:40	0:33:21	-51.08	129.42	496.07	22.76	-116.86	477.65	-142.06	1.94
151	5/15/2020 4:13	5/15/2020 4:28	0:15:20	18.42	20.24	482.99	-26.84	55.00	489.01	-142.42	1.58
152	5/15/2020 4:30	5/15/2020 4:34	0:04:20	-31.77	60.24	490.53	-42.13	75.35	493.79	-143.29	0.71
153	5/15/2020 4:41	5/15/2020 5:23	0:41:40	-51.61	111.52	495.97	45.60	-108.97	483.74	-142.06	1.94
154	5/15/2020 5:37	5/15/2020 5:59	0:21:29	43.52	-34.34	486.19	-16.49	22.03	486.16	-142.24	1.76
155	5/15/2020 6:18	5/15/2020 6:40	0:22:51	-51.65	99.60	495.49	0.76	178.53	476.65	-142.06	1.94
156	5/15/2020 7:17	5/15/2020 7:37	0:19:40	29.01	-37.30	484.11	-28.41	8.78	489.53	-142.41	1.59
157	5/15/2020 8:04	5/15/2020 8:35	0:31:00	-29.76	129.93	484.71	50.64	-137.61	485.79	-142.05	1.95
158	5/15/2020 8:57	5/15/2020 9:12	0:15:01	13.19	-47.37	482.93	-30.76	-12.63	490.40	-142.46	1.54
159	5/15/2020 9:49	5/15/2020 10:09	0:19:50	2.00	131.58	476.38	50.37	-163.17	485.50	-142.28	1.72
160	5/15/2020 10:33	5/15/2020 10:47	0:13:10	6.11	-66.08	483.05	-32.17	-34.93	490.91	-142.53	1.47
161	5/15/2020 11:07	5/15/2020 11:23	0:16:29	-42.84	63.38	490.72	2.62	108.11	476.27	-142.03	1.97
162	5/15/2020 11:24	5/15/2020 11:41	0:17:20	4.13	109.17	476.17	48.25	163.38	484.45	-142.27	1.73
163	5/15/2020 12:00	5/15/2020 12:20	0:20:30	28.69	-108.70	484.05	-30.96	-60.22	490.60	-142.39	1.61
164	5/15/2020 13:25	5/15/2020 13:52	0:26:29	47.60	-164.47	486.74	-24.23	-90.94	488.64	-142.23	1.77
165	5/15/2020 14:50	5/15/2020 15:01	0:11:09	49.23	119.40	484.96	44.37	-179.67	486.39	-142.39	1.61
166	5/15/2020 15:26	5/15/2020 15:33	0:07:30	-22.92	-116.03	488.27	-41.99	-92.28	494.05	-142.53	1.47
167	5/15/2020 15:58	5/15/2020 16:07	0:09:00	-21.35	18.45	481.38	5.47	38.40	476.02	-142.01	1.99
168	5/15/2020 16:07	5/15/2020 16:22	0:14:21	6.98	39.47	475.98	44.87	81.87	483.22	-142.24	1.76
169	5/15/2020 16:25	5/15/2020 17:00	0:34:59	50.36	101.12	485.45	-24.91	-138.13	488.86	-142.22	1.78
170	5/15/2020 17:16	5/15/2020 17:41	0:24:40	-51.67	-68.17	495.67	6.09	14.93	475.97	-142.00	2.00
171	5/15/2020 18:02	5/15/2020 18:36	0:34:31	51.65	88.89	486.23	-29.14	-157.84	490.11	-142.22	1.78
172	5/15/2020 18:48	5/15/2020 19:16	0:27:30	-51.41	-106.53	496.17	7.21	-8.18	475.93	-141.38	2.62
173	5/15/2020 19:16	5/15/2020 19:21	0:04:31	9.21	-6.73	475.94	22.42	3.74	477.16	-142.23	1.77
174	5/15/2020 19:40	5/15/2020 20:11	0:31:30	50.32	88.45	486.85	-31.90	-178.71	490.91	-142.21	1.79
175	5/15/2020 20:22	5/15/2020 20:50	0:28:00	-51.25	-132.13	496.09	7.83	-31.64	475.89	-141.33	2.67
176	5/15/2020 20:51	5/15/2020 20:57	0:06:00	9.83	-30.19	475.91	27.22	-15.68	478.07	-142.22	1.78
177	5/15/2020 21:21	5/15/2020 21:45	0:24:20	38.31	95.87	485.53	-31.13	156.50	490.68	-142.21	1.79
178	5/15/2020 22:08	5/15/2020 22:24	0:16:21	-37.79	-95.32	488.08	8.95	-54.74	475.90	-142.00	2.00
179	5/15/2020 22:25	5/15/2020 22:42	0:17:11	10.94	-53.28	475.95	50.65	7.28	485.63	-142.22	1.78
180	5/15/2020 23:35	5/15/2020 23:59	0:23:20	-50.01	-149.64	494.41	9.56	-78.21	476.03	-141.99	2.01
181	5/16/2020 0:28	5/16/2020 1:02	0:34:41	41.16	43.34	485.37	-49.62	145.73	493.63	-142.19	1.81
182	5/16/2020 1:12	5/16/2020 1:33	0:21:29	-47.06	-162.11	490.87	10.75	-101.24	475.72	-141.97	2.03
183	5/16/2020 1:34	5/16/2020 1:34	0:00:09	12.73	-99.76	475.84	13.23	-99.38	475.88	-143.37	0.63

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 ² /4kHz)	PFD Non- Compliance (dB)
184	5/16/2020 2:04	5/16/2020 2:37	0:33:10	37.18	25.81	484.44	-49.88	123.07	493.65	-142.19	1.81
185	5/16/2020 2:46	5/16/2020 3:06	0:19:50	-46.95	174.30	490.85	5.94	-128.63	475.67	-141.96	2.04
186	5/16/2020 3:42	5/16/2020 4:09	0:26:09	24.73	16.11	482.39	-46.78	87.59	492.84	-142.27	1.73
187	5/16/2020 4:21	5/16/2020 4:42	0:20:50	-44.81	156.08	489.77	12.62	-147.65	475.87	-141.95	2.05
188	5/16/2020 4:43	5/16/2020 4:43	0:00:39	14.60	-146.14	476.04	16.56	-144.60	476.25	-142.70	1.30
189	5/16/2020 5:09	5/16/2020 5:23	0:13:50	43.88	-33.74	485.58	6.99	6.38	481.26	-142.17	1.83
190	5/16/2020 5:57	5/16/2020 6:12	0:14:30	-40.57	140.71	487.77	-0.21	179.22	475.88	-141.96	2.04
191	5/16/2020 6:49	5/16/2020 7:03	0:14:29	29.42	-36.36	483.13	-13.23	-3.04	483.55	-142.18	1.82
192	5/16/2020 7:26	5/16/2020 7:51	0:25:11	-50.36	88.91	492.44	14.00	165.59	475.88	-141.92	2.08
193	5/16/2020 7:52	5/16/2020 7:55	0:03:01	16.45	167.51	476.14	25.08	174.92	477.55	-142.23	1.77
194	5/16/2020 8:07	5/16/2020 8:12	0:05:00	50.53	-136.94	485.44	51.05	-107.84	486.56	-142.65	1.35
195	5/16/2020 8:29	5/16/2020 8:40	0:11:10	13.56	-46.27	481.54	-19.76	-21.75	485.15	-142.36	1.64
196	5/16/2020 9:17	5/16/2020 9:25	0:08:19	-9.86	124.53	477.11	15.17	142.60	475.87	-142.05	1.95
197	5/16/2020 9:26	5/16/2020 9:42	0:16:19	17.13	144.14	476.09	51.47	-152.86	485.82	-142.23	1.77
198	5/16/2020 10:05	5/16/2020 10:21	0:16:10	5.90	-64.55	481.50	-39.71	-23.18	491.01	-142.35	1.65
199	5/16/2020 10:40	5/16/2020 11:00	0:20:00	-40.88	68.46	487.94	15.85	119.22	475.84	-141.95	2.05
200	5/16/2020 11:00	5/16/2020 11:13	0:13:01	18.29	121.18	476.14	48.83	166.95	484.41	-142.23	1.77
201	5/16/2020 11:31	5/16/2020 11:57	0:26:31	30.24	-108.95	483.24	-43.75	-39.50	492.27	-142.17	1.83
202	5/16/2020 12:14	5/16/2020 12:34	0:20:00	-39.99	46.08	487.57	17.02	96.25	475.98	-141.94	2.06
203	5/16/2020 12:35	5/16/2020 12:49	0:14:10	18.97	97.83	476.24	50.40	150.57	485.22	-142.23	1.77
204	5/16/2020 12:58	5/16/2020 13:20	0:22:00	45.46	-156.97	485.89	-14.97	-97.31	484.25	-142.17	1.83
205	5/16/2020 14:16	5/16/2020 14:33	0:17:41	37.16	93.15	480.42	44.09	-177.64	485.71	-142.71	1.29
206	5/16/2020 14:51	5/16/2020 15:01	0:10:19	-4.73	-128.76	482.51	-34.15	-102.85	489.43	-142.55	1.45
207	5/16/2020 16:07	5/16/2020 16:42	0:35:00	43.97	158.74	485.70	-48.32	-98.64	493.47	-142.17	1.83
208	5/16/2020 16:47	5/16/2020 17:09	0:22:20	-51.80	-72.51	493.74	-3.88	9.31	475.90	-141.89	2.11
209	5/16/2020 17:33	5/16/2020 18:03	0:29:50	51.70	91.47	485.97	-16.52	-167.81	484.64	-142.17	1.83
210	5/16/2020 18:31	5/16/2020 18:52	0:20:40	-39.03	-47.97	486.97	20.20	3.24	476.29	-141.88	2.12
211	5/16/2020 18:52	5/16/2020 19:03	0:10:31	22.59	5.31	476.70	47.38	42.33	483.84	-142.24	1.76
212	5/16/2020 19:11	5/16/2020 19:39	0:27:10	50.26	90.19	486.40	-20.10	171.21	485.45	-142.17	1.83
213	5/16/2020 20:05	5/16/2020 20:26	0:21:10	-39.26	-72.24	486.99	21.35	-19.68	476.46	-141.87	2.13
214	5/16/2020 20:27	5/16/2020 20:40	0:12:51	23.25	-18.00	476.81	50.54	31.93	485.23	-142.24	1.76
215	5/16/2020 21:02	5/16/2020 21:29	0:26:50	12.02	123.67	481.72	-51.71	-147.98	493.74	-142.21	1.79
216	5/16/2020 21:40	5/16/2020 22:00	0:20:11	-36.33	-91.79	485.66	22.01	-43.00	476.59	-141.92	2.08
217	5/16/2020 22:01	5/16/2020 22:15	0:13:30	24.38	-40.87	477.04	51.31	14.10	485.71	-142.24	1.76
218	5/16/2020 22:26	5/16/2020 22:44	0:18:31	39.51	71.51	485.00	-13.17	117.88	483.92	-142.16	1.84
219	5/16/2020 23:17	5/16/2020 23:31	0:14:00	-29.72	-107.68	483.01	11.46	-75.36	475.40	-141.92	2.08

Max. Exceedance: 5.61

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 ² /4kHz)	PFD Non- Compliance (dB)
1	5/11/2020 21:18	5/11/2020 21:21	0:03:00	-49.15	-87.13	439.18	-44.30	-72.53	437.23	-143.73	0.27
2	5/11/2020 21:32	5/11/2020 21:33	0:00:39	-15.70	-37.94	426.92	-13.71	-36.40	426.40	-143.79	0.21
3	5/11/2020 21:36	5/11/2020 21:39	0:03:00	-5.14	-30.11	424.60	4.02	-23.64	423.54	-143.08	0.92
4	5/11/2020 21:41	5/11/2020 21:45	0:03:41	11.11	-18.52	423.36	21.98	-9.82	424.10	-143.80	0.20
5	5/11/2020 21:47	5/11/2020 21:47	0:00:50	27.65	-4.49	424.91	29.94	-2.10	425.31	-143.70	0.30
6	5/11/2020 21:48	5/11/2020 21:58	0:09:20	32.18	0.42	425.73	50.43	40.58	429.96	-142.33	1.67
7	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	-143.10	0.90
8	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	-142.70	1.30
9	5/11/2020 22:25	5/11/2020 22:34	0:09:09	-4.69	145.03	425.01	-31.40	167.72	432.47	-140.88	3.12
10	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	-143.74	0.26
11	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	-143.45	0.55
12	5/11/2020 22:45	5/11/2020 22:46	0:00:20	-51.40	-143.47	440.07	-51.55	-141.51	440.12	-143.73	0.27
13	5/11/2020 22:47	5/11/2020 22:47	0:00:11	-51.79	-133.57	440.19	-51.78	-132.58	440.18	-143.95	0.05
14	5/11/2020 22:51	5/11/2020 22:52	0:00:50	-49.12	-110.64	439.10	-47.98	-106.31	438.64	-143.74	0.26
15	5/11/2020 22:52	5/11/2020 22:54	0:01:40	-47.21	-103.82	438.34	-44.25	-96.06	437.15	-143.74	0.26
16	5/11/2020 22:57	5/11/2020 22:57	0:00:00	-38.07	-84.77	434.66	-38.07	-84.77	434.66	-143.99	0.01
17	5/11/2020 23:05	5/11/2020 23:06	0:00:41	-15.13	-61.12	426.72	-13.14	-59.59	426.20	-143.77	0.23
18	5/11/2020 23:09	5/11/2020 23:12	0:03:20	-4.56	-53.32	424.45	5.61	-46.13	423.41	-142.94	1.06
19	5/11/2020 23:14	5/11/2020 23:17	0:03:40	11.18	-42.09	423.32	22.04	-33.39	424.09	-143.80	0.20
20	5/11/2020 23:20	5/11/2020 23:31	0:11:00	27.72	-28.05	424.92	50.45	17.08	430.03	-142.34	1.66
21	5/11/2020 23:48	5/11/2020 23:51	0:02:51	24.24	99.40	424.84	15.97	106.41	424.04	-143.20	0.80
22	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	-142.91	1.09
23	5/11/2020 23:59	5/12/2020 0:08	0:09:00	-5.78	122.18	425.21	-31.91	144.67	432.64	-141.09	2.91
24	5/12/2020 0:09	5/12/2020 0:09	0:00:20	-35.36	148.93	433.94	-36.19	150.06	434.25	-143.92	0.08
25	5/12/2020 0:10	5/12/2020 0:11	0:01:10	-37.42	151.80	434.73	-40.16	156.09	435.79	-143.73	0.27
26	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	-143.09	0.91
27	5/12/2020 0:19	5/12/2020 0:19	0:00:09	-51.49	-165.99	440.08	-51.56	-165.00	440.10	-143.91	0.09
28	5/12/2020 0:20	5/12/2020 0:20	0:00:11	-51.79	-157.07	440.17	-51.78	-156.07	440.16	-143.90	0.10
29	5/12/2020 0:24	5/12/2020 0:25	0:00:50	-49.09	-134.15	439.08	-47.95	-129.83	438.62	-143.77	0.23
30	5/12/2020 0:25	5/12/2020 0:27	0:01:49	-47.18	-127.34	438.31	-43.88	-118.86	436.99	-143.74	0.26
31	5/12/2020 0:30	5/12/2020 0:30	0:00:00	-37.61	-107.72	434.48	-37.61	-107.72	434.48	-143.99	0.01
32	5/12/2020 0:38	5/12/2020 0:39	0:00:40	-14.57	-84.32	426.60	-12.57	-82.79	426.11	-143.77	0.23
33	5/12/2020 0:42	5/12/2020 0:45	0:03:30	-3.48	-76.18	424.34	7.20	-68.62	423.42	-142.80	1.20
34	5/12/2020 0:47	5/12/2020 0:51	0:03:50	11.24	-65.67	423.39	22.59	-56.54	424.22	-143.81	0.19
35	5/12/2020 0:53	5/12/2020 1:00	0:07:10	28.70	-50.67	425.15	45.61	-24.50	428.87	-142.35	1.65
36	5/12/2020 1:01	5/12/2020 1:01	0:00:21	46.77	-21.34	429.16	47.31	-19.71	429.30	-143.96	0.04
37	5/12/2020 1:02	5/12/2020 1:04	0:01:51	48.31	-16.34	429.55	50.46	-6.43	430.10	-143.01	0.99
38	5/12/2020 1:21	5/12/2020 1:24	0:02:51	24.18	75.82	424.80	15.91	82.84	423.98	-143.20	0.80
39	5/12/2020 1:27	5/12/2020 1:30	0:02:30	6.87	89.60	423.86	-0.76	95.00	424.43	-143.07	0.93
40	5/12/2020 1:32	5/12/2020 1:41	0:08:49	-6.86	99.32	425.34	-32.40	121.62	432.83	-141.60	2.40
41	5/12/2020 1:41	5/12/2020 1:42	0:01:09	-33.71	123.20	433.32	-36.65	127.08	434.45	-143.45	0.55
42	5/12/2020 1:43	5/12/2020 1:44	0:00:50	-38.27	129.44	435.08	-40.21	132.55	435.84	-143.67	0.33
43	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	-142.65	1.35
44	5/12/2020 1:53	5/12/2020 1:53	0:00:11	-51.79	179.43	440.30	-51.78	-179.57	440.29	-143.86	0.14
45	5/12/2020 1:57	5/12/2020 1:58	0:00:41	-48.85	-156.79	439.14	-47.91	-153.35	438.77	-143.75	0.25
46	5/12/2020 1:58	5/12/2020 2:00	0:01:51	-46.87	-150.05	438.36	-43.50	-141.69	437.02	-143.74	0.26
47	5/12/2020 2:12	5/12/2020 2:12	0:00:39	-14.01	-107.52	426.64	-12.01	-106.00	426.15	-143.79	0.21
48	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	-142.79	1.21
49	5/12/2020 2:17	5/12/2020 2:19	0:01:49	2.69	-95.46	423.80	8.28	-91.48	423.53	-143.77	0.23
50	5/12/2020 2:20	5/12/2020 2:24	0:03:50	11.81	-88.88	423.53	23.12	-79.68	424.38	-143.82	0.18
51	5/12/2020 2:27	5/12/2020 2:33	0:06:20	31.02	-71.80	425.62	45.65	-48.03	428.85	-142.28	1.72
52	5/12/2020 2:35	5/12/2020 2:37	0:01:31	48.80	-38.13	429.62	50.48	-29.95	430.04	-143.09	0.91
53	5/12/2020 2:54	5/12/2020 2:57	0:03:00	24.12	52.25	424.63	15.35	59.64	423.78	-143.19	0.81
54	5/12/2020 3:01	5/12/2020 3:03	0:02:00	4.27	67.82	423.81	-1.84	72.13	424.40	-143.16	0.84
55	5/12/2020 3:05	5/12/2020 3:12	0:06:31	-7.93	76.47	425.40	-27.03	92.20	430.80	-141.64	2.36
56	5/12/2020 3:12	5/12/2020 3:16	0:03:20	-28.42	93.60	431.29	-37.12	104.10	434.61	-142.83	1.17
57	5/12/2020 3:16	5/12/2020 3:17	0:00:41	-38.71	106.50	435.24	-40.25	109.00	435.85	-143.66	0.34
58	5/12/2020 3:20	5/12/2020 3:20	0:00:00	-46.28	121.85	438.25	-46.28	121.85	438.25	-143.98	0.02
59	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	-142.11	1.89
60	5/12/2020 3:26	5/12/2020 3:26	0:00:20	-51.79	155.93	440.39	-51.75	157.92	440.38	-143.81	0.19
61	5/12/2020 3:30	5/12/2020 3:31	0:00:30	-48.82	179.70	439.26	-48.13	-177.72	438.99	-143.75	0.25

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 ² /4kHz)	PFD Non- Compliance (dB)
62	5/12/2020 3:31	5/12/2020 3:33	0:01:51	-46.84	-173.58	438.49	-43.46	-165.22	437.16	-143.74	0.26
63	5/12/2020 3:45	5/12/2020 3:45	0:00:41	-13.45	-130.71	426.65	-11.45	-129.20	426.17	-143.81	0.19
64	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	-142.94	1.06
65	5/12/2020 3:50	5/12/2020 3:52	0:01:31	4.28	-117.97	423.81	8.84	-114.69	423.62	-143.82	0.18
66	5/12/2020 3:53	5/12/2020 3:57	0:03:29	12.87	-111.71	423.65	23.18	-103.26	424.45	-143.83	0.17
67	5/12/2020 4:00	5/12/2020 4:06	0:06:11	31.52	-94.86	425.75	45.68	-71.57	428.82	-142.27	1.73
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	-143.13	0.87
69	5/12/2020 4:28	5/12/2020 4:31	0:03:00	23.59	29.11	424.39	14.79	36.45	423.59	-143.18	0.82
70	5/12/2020 4:35	5/12/2020 4:37	0:02:10	3.19	44.96	423.73	-3.43	49.63	424.48	-143.19	0.81
71	5/12/2020 4:39	5/12/2020 4:45	0:06:09	-9.51	53.99	425.58	-27.56	69.09	430.87	-141.69	2.31
72	5/12/2020 4:46	5/12/2020 4:49	0:03:09	-29.39	70.99	431.53	-37.57	81.14	434.68	-142.27	1.73
73	5/12/2020 4:49	5/12/2020 4:50	0:00:21	-39.54	84.19	435.46	-40.30	85.46	435.77	-143.78	0.22
74	5/12/2020 4:53	5/12/2020 4:55	0:02:00	-46.32	98.32	438.17	-49.28	108.43	439.33	-141.86	2.14
75	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	-143.76	0.24
76	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	-143.79	0.21
77	5/12/2020 5:04	5/12/2020 5:06	0:02:00	-46.80	162.90	438.42	-43.08	171.95	436.96	-143.73	0.27
78	5/12/2020 5:09	5/12/2020 5:09	0:00:00	-36.64	-177.21	434.42	-36.64	-177.21	434.42	-143.99	0.01
79	5/12/2020 5:18	5/12/2020 5:19	0:00:41	-12.38	-153.53	426.39	-10.38	-152.04	425.93	-143.82	0.18
80	5/12/2020 5:21	5/12/2020 5:21	0:00:00	-4.30	-147.65	424.78	-4.30	-147.65	424.78	-143.98	0.02
81	5/12/2020 5:21	5/12/2020 5:23	0:01:30	-1.76	-145.86	424.41	2.82	-142.63	423.93	-142.97	1.03
82	5/12/2020 5:24	5/12/2020 5:25	0:01:01	5.87	-140.46	423.73	8.91	-138.27	423.64	-143.87	0.13
83	5/12/2020 5:27	5/12/2020 5:30	0:03:20	13.93	-134.52	423.70	23.72	-126.40	424.53	-143.85	0.15
84	5/12/2020 5:33	5/12/2020 5:39	0:05:49	32.02	-117.91	425.86	45.42	-95.87	428.77	-142.24	1.76
85	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	-143.17	0.83
86	5/12/2020 6:01	5/12/2020 6:04	0:03:00	23.05	5.97	424.29	14.23	13.26	423.53	-143.16	0.84
87	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	-143.18	0.82
88	5/12/2020 6:12	5/12/2020 6:18	0:05:41	-11.59	31.90	425.99	-28.08	46.00	431.00	-141.63	2.37
89	5/12/2020 6:19	5/12/2020 6:22	0:02:49	-30.35	48.41	431.83	-37.63	57.59	434.64	-142.57	1.43
90	5/12/2020 6:23	5/12/2020 6:23	0:00:09	-40.35	61.91	435.73	-40.73	62.56	435.88	-143.89	0.11
91	5/12/2020 6:26	5/12/2020 6:28	0:02:10	-46.36	74.80	438.13	-49.51	85.81	439.37	-141.86	2.14
92	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	-143.71	0.29
93	5/12/2020 6:36	5/12/2020 6:37	0:00:20	-48.54	133.54	439.03	-48.07	135.25	438.85	-143.77	0.23
94	5/12/2020 6:38	5/12/2020 6:39	0:01:49	-46.49	140.18	438.24	-43.03	148.42	436.88	-143.73	0.27
95	5/12/2020 6:42	5/12/2020 6:42	0:00:00	-36.18	159.81	434.18	-36.18	159.81	434.18	-143.99	0.01
96	5/12/2020 6:45	5/12/2020 6:45	0:00:00	-29.65	167.69	431.71	-29.65	167.69	431.71	-143.98	0.02
97	5/12/2020 6:51	5/12/2020 6:52	0:00:39	-11.82	-176.73	426.22	-9.80	-175.24	425.77	-143.80	0.20
98	5/12/2020 6:54	5/12/2020 6:54	0:00:11	-3.22	-170.51	424.58	-2.71	-170.15	424.51	-143.92	0.08
99	5/12/2020 6:55	5/12/2020 6:56	0:01:30	-1.18	-169.08	424.30	3.40	-165.85	423.85	-142.98	1.02
100	5/12/2020 6:58	5/12/2020 6:58	0:00:30	7.46	-162.95	423.64	8.98	-161.85	423.61	-143.92	0.08
101	5/12/2020 7:00	5/12/2020 7:03	0:03:11	14.50	-157.71	423.70	23.79	-149.97	424.52	-143.86	0.14
102	5/12/2020 7:07	5/12/2020 7:12	0:04:59	34.26	-138.83	426.27	45.46	-119.39	428.75	-142.16	1.84
103	5/12/2020 7:15	5/12/2020 7:15	0:00:50	49.70	-105.10	429.76	50.54	-100.46	429.96	-143.23	0.77
104	5/12/2020 7:24	5/12/2020 7:24	0:00:00	46.72	-52.29	429.01	46.72	-52.29	429.01	-143.98	0.02
105	5/12/2020 7:34	5/12/2020 7:37	0:03:00	22.50	-17.17	424.24	13.66	-9.93	423.53	-143.15	0.85
106	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	-143.09	0.91
107	5/12/2020 7:46	5/12/2020 7:51	0:05:30	-12.66	9.08	426.26	-28.60	22.91	431.18	-141.99	2.01
108	5/12/2020 7:52	5/12/2020 7:55	0:02:19	-31.75	26.35	432.35	-37.68	34.05	434.65	-142.82	1.18
109	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	-143.87	0.13
110	5/12/2020 7:59	5/12/2020 8:01	0:02:21	-46.40	51.28	438.11	-49.73	63.21	439.41	-141.85	2.15
111	5/12/2020 8:05	5/12/2020 8:06	0:00:30	-51.79	85.45	440.20	-51.71	88.43	440.17	-143.72	0.28
112	5/12/2020 8:09	5/12/2020 8:10	0:00:21	-48.27	110.89	438.85	-47.79	112.59	438.66	-143.83	0.17
113	5/12/2020 8:11	5/12/2020 8:13	0:02:00	-46.45	116.67	438.14	-42.64	125.59	436.63	-143.72	0.28
114	5/12/2020 8:15	5/12/2020 8:15	0:00:00	-36.12	136.26	434.06	-36.12	136.26	434.06	-143.98	0.02
115	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	-143.90	0.10
116	5/12/2020 8:24	5/12/2020 8:25	0:00:41	-11.24	160.07	426.01	-9.23	161.55	425.57	-143.82	0.18
117	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	-142.93	1.07
118	5/12/2020 8:33	5/12/2020 8:36	0:03:20	14.57	178.71	423.65	24.33	-173.09	424.56	-143.87	0.13
119	5/12/2020 8:40	5/12/2020 8:45	0:05:00	33.89	-162.92	426.19	45.20	-143.67	428.72	-142.11	1.89
120	5/12/2020 8:48	5/12/2020 8:48	0:00:50	49.73	-128.60	429.81	50.56	-123.96	430.01	-143.27	0.73
121	5/12/2020 9:02	5/12/2020 9:02	0:00:00	37.26	-57.14	426.91	37.26	-57.14	426.91	-143.99	0.01
122	5/12/2020 9:07	5/12/2020 9:10	0:03:10	21.95	-40.31	424.28	12.59	-32.74	423.60	-143.16	0.84

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 ² /4kHz)	PFD Non-Compliance (dB)
123	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	-143.14	0.86
124	5/12/2020 9:19	5/12/2020 9:25	0:05:21	-14.23	-13.35	426.76	-29.57	0.31	431.63	-142.91	1.09
125	5/12/2020 9:26	5/12/2020 9:28	0:01:31	-33.56	4.88	433.13	-37.33	9.91	434.59	-143.01	0.99
126	5/12/2020 9:32	5/12/2020 9:34	0:02:39	-46.15	26.97	438.07	-49.93	40.62	439.54	-141.84	2.16
127	5/12/2020 9:38	5/12/2020 9:39	0:00:30	-51.78	61.95	440.23	-51.70	64.93	440.20	-143.70	0.30
128	5/12/2020 9:42	5/12/2020 9:43	0:00:20	-48.24	87.38	438.85	-47.75	89.07	438.65	-143.82	0.18
129	5/12/2020 9:44	5/12/2020 9:46	0:02:10	-46.41	93.15	438.12	-42.24	102.74	436.46	-143.72	0.28
130	5/12/2020 9:49	5/12/2020 9:49	0:00:00	-35.65	113.28	433.84	-35.65	113.28	433.84	-143.97	0.03
131	5/12/2020 9:51	5/12/2020 9:51	0:00:30	-29.53	120.57	431.51	-28.16	122.01	431.01	-143.80	0.20
132	5/12/2020 9:58	5/12/2020 9:58	0:00:41	-10.17	137.24	425.69	-8.15	138.71	425.27	-143.76	0.24
133	5/12/2020 10:00	5/12/2020 10:03	0:02:30	-2.57	142.69	424.33	5.06	148.08	423.59	-142.80	1.20
134	5/12/2020 10:06	5/12/2020 10:09	0:03:09	15.13	155.53	423.59	24.39	163.34	424.47	-143.88	0.12
135	5/12/2020 10:12	5/12/2020 10:18	0:05:19	33.08	172.47	425.94	45.24	-167.20	428.66	-142.16	1.84
136	5/12/2020 10:21	5/12/2020 10:21	0:00:50	49.75	-152.10	429.76	50.58	-147.45	429.97	-143.28	0.72
137	5/12/2020 10:30	5/12/2020 10:30	0:00:00	46.36	-98.53	429.00	46.36	-98.53	429.00	-143.99	0.01
138	5/12/2020 10:35	5/12/2020 10:35	0:00:00	36.79	-80.10	426.82	36.79	-80.10	426.82	-143.97	0.03
139	5/12/2020 10:40	5/12/2020 10:44	0:03:20	21.40	-63.46	424.26	11.52	-55.56	423.64	-143.14	0.86
140	5/12/2020 10:47	5/12/2020 10:47	0:00:00	2.40	-48.99	423.97	2.40	-48.99	423.97	-143.99	0.01
141	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	-143.17	0.83
142	5/12/2020 10:52	5/12/2020 10:53	0:00:11	-15.29	-36.16	427.16	-15.78	-35.77	427.29	-143.96	0.04
143	5/12/2020 10:53	5/12/2020 10:54	0:00:41	-17.76	-34.19	427.85	-19.72	-32.58	428.43	-143.80	0.20
144	5/12/2020 10:55	5/12/2020 10:56	0:01:10	-23.10	-29.64	429.50	-26.41	-26.55	430.63	-143.66	0.34
145	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	-143.40	0.60
146	5/12/2020 11:05	5/12/2020 11:08	0:02:50	-46.19	3.45	438.23	-50.13	18.03	439.75	-141.82	2.18
147	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	-143.73	0.27
148	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	-143.84	0.16
149	5/12/2020 11:17	5/12/2020 11:19	0:01:59	-46.09	70.41	438.08	-42.20	79.20	436.51	-143.72	0.28
150	5/12/2020 11:22	5/12/2020 11:22	0:00:00	-35.17	90.28	433.69	-35.17	90.28	433.69	-143.99	0.01
151	5/12/2020 11:24	5/12/2020 11:25	0:00:30	-29.02	97.49	431.33	-27.64	98.91	430.83	-143.69	0.31
152	5/12/2020 11:31	5/12/2020 11:31	0:00:40	-9.60	114.03	425.49	-7.58	115.50	425.08	-143.74	0.26
153	5/12/2020 11:33	5/12/2020 11:36	0:02:30	-2.00	119.47	424.16	5.64	124.86	423.45	-142.60	1.40
154	5/12/2020 11:39	5/12/2020 11:43	0:03:30	15.20	131.95	423.45	25.40	140.66	424.45	-143.88	0.12
155	5/12/2020 11:44	5/12/2020 11:51	0:06:29	30.03	145.35	425.19	45.28	169.28	428.47	-142.14	1.86
156	5/12/2020 11:54	5/12/2020 11:54	0:00:50	49.78	-175.60	429.57	50.60	-170.95	429.77	-143.27	0.73
157	5/12/2020 11:56	5/12/2020 11:56	0:00:11	51.48	-163.22	430.00	51.56	-162.23	430.02	-143.96	0.04
158	5/12/2020 12:03	5/12/2020 12:03	0:00:09	46.32	-122.04	428.85	46.03	-121.25	428.78	-143.99	0.01
159	5/12/2020 12:08	5/12/2020 12:08	0:00:00	36.32	-103.07	426.63	36.32	-103.07	426.63	-143.99	0.01
160	5/12/2020 12:14	5/12/2020 12:17	0:03:20	20.85	-86.61	424.16	10.95	-78.76	423.63	-143.13	0.87
161	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	-143.17	0.83
162	5/12/2020 12:33	5/12/2020 12:33	0:00:30	-34.96	-40.60	433.82	-36.22	-38.92	434.30	-143.73	0.27
163	5/12/2020 12:38	5/12/2020 12:41	0:02:50	-46.23	-20.07	438.25	-50.15	-5.46	439.76	-141.78	2.22
164	5/12/2020 12:44	5/12/2020 12:45	0:00:21	-51.76	15.97	440.34	-51.69	17.95	440.31	-143.75	0.25
165	5/12/2020 12:49	5/12/2020 12:49	0:00:20	-47.93	41.20	438.81	-47.43	42.87	438.61	-143.84	0.16
166	5/12/2020 12:50	5/12/2020 12:52	0:02:10	-46.04	46.89	438.05	-41.79	56.35	436.33	-143.73	0.27
167	5/12/2020 12:57	5/12/2020 12:58	0:00:30	-28.50	74.41	431.12	-27.11	75.81	430.61	-143.55	0.45
168	5/12/2020 13:04	5/12/2020 13:05	0:00:41	-8.52	91.19	425.22	-6.50	92.65	424.83	-143.71	0.29
169	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	-142.34	1.66
170	5/12/2020 13:12	5/12/2020 13:16	0:03:41	15.77	108.77	423.45	26.41	118.00	424.58	-143.88	0.12
171	5/12/2020 13:17	5/12/2020 13:24	0:07:19	28.72	120.34	424.96	45.93	147.31	428.64	-142.11	1.89
172	5/12/2020 13:27	5/12/2020 13:27	0:00:50	49.80	160.90	429.60	50.62	165.55	429.80	-143.33	0.67
173	5/12/2020 13:29	5/12/2020 13:29	0:00:30	51.42	172.31	430.01	51.62	175.27	430.06	-143.88	0.12
174	5/12/2020 13:36	5/12/2020 13:36	0:00:00	45.99	-144.77	428.81	45.99	-144.77	428.81	-143.97	0.03
175	5/12/2020 13:41	5/12/2020 13:41	0:00:00	36.26	-126.62	426.66	36.26	-126.62	426.66	-143.99	0.01
176	5/12/2020 13:47	5/12/2020 13:50	0:03:31	20.30	-109.76	424.16	9.87	-101.60	423.69	-143.12	0.88
177	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	-143.16	0.84
178	5/12/2020 14:11	5/12/2020 14:14	0:03:00	-45.98	-44.37	438.24	-50.17	-28.96	439.85	-141.73	2.27
179	5/12/2020 14:17	5/12/2020 14:17	0:00:20	-51.75	-7.53	440.41	-51.68	-5.54	440.38	-143.77	0.23
180	5/12/2020 14:22	5/12/2020 14:22	0:00:11	-47.65	18.53	438.76	-47.39	19.35	438.66	-143.84	0.16
181	5/12/2020 14:23	5/12/2020 14:25	0:02:10	-45.71	24.15	437.98	-41.38	33.48	436.22	-143.73	0.27
182	5/12/2020 14:31	5/12/2020 14:31	0:00:30	-27.97	51.32	430.97	-26.58	52.70	430.46	-143.45	0.55
183	5/12/2020 14:37	5/12/2020 14:38	0:01:20	-9.46	66.88	425.44	-5.41	69.80	424.65	-143.65	0.35

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 ² /4kHz)	PFD Non- Compliance (dB)
184	5/12/2020 14:40	5/12/2020 14:42	0:02:50	-1.35	72.68	424.03	7.30	78.80	423.33	-142.10	1.90
185	5/12/2020 14:45	5/12/2020 14:57	0:12:00	15.83	85.19	423.45	46.26	124.57	428.78	-142.13	1.87
186	5/12/2020 14:59	5/12/2020 15:00	0:01:29	49.03	133.80	429.47	50.64	142.05	429.88	-143.46	0.54
187	5/12/2020 15:02	5/12/2020 15:02	0:00:30	51.43	148.82	430.09	51.63	151.78	430.15	-143.79	0.21
188	5/12/2020 15:09	5/12/2020 15:10	0:00:11	45.95	-168.30	428.90	45.65	-167.52	428.83	-143.97	0.03
189	5/12/2020 15:14	5/12/2020 15:14	0:00:00	35.79	-149.60	426.66	35.79	-149.60	426.66	-143.98	0.02
190	5/12/2020 15:20	5/12/2020 15:23	0:03:29	19.75	-132.92	424.19	9.30	-124.81	423.76	-143.10	0.90
191	5/12/2020 15:25	5/12/2020 15:29	0:03:20	2.70	-120.08	424.08	-7.46	-112.88	425.48	-142.95	1.05
192	5/12/2020 15:44	5/12/2020 15:47	0:03:09	-46.01	-67.90	438.22	-50.35	-51.54	439.86	-141.68	2.32
193	5/12/2020 15:50	5/12/2020 15:50	0:00:20	-51.75	-31.03	440.34	-51.68	-29.04	440.30	-143.80	0.20
194	5/12/2020 15:55	5/12/2020 15:55	0:00:11	-47.61	-4.99	438.66	-47.36	-4.17	438.55	-143.86	0.14
195	5/12/2020 15:56	5/12/2020 15:58	0:02:10	-45.67	0.62	437.87	-41.33	9.94	436.11	-143.73	0.27
196	5/12/2020 16:04	5/12/2020 16:04	0:00:39	-27.91	27.75	430.86	-26.05	29.59	430.19	-143.50	0.50
197	5/12/2020 16:10	5/12/2020 16:12	0:01:40	-9.40	43.30	425.35	-4.33	46.94	424.41	-143.57	0.43
198	5/12/2020 16:12	5/12/2020 16:16	0:03:39	-2.81	48.02	424.17	8.38	55.96	423.26	-141.84	2.16
199	5/12/2020 16:18	5/12/2020 16:30	0:11:50	16.39	62.01	423.45	46.29	101.05	428.78	-142.12	1.88
200	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	-143.60	0.40
201	5/12/2020 16:35	5/12/2020 16:35	0:00:41	51.44	125.32	430.10	51.69	129.27	430.18	-143.68	0.32
202	5/12/2020 16:43	5/12/2020 16:43	0:00:00	45.61	168.96	428.86	45.61	168.96	428.86	-143.95	0.05
203	5/12/2020 16:47	5/12/2020 16:47	0:00:00	35.32	-172.60	426.61	35.32	-172.60	426.61	-143.98	0.02
204	5/12/2020 16:53	5/12/2020 16:57	0:03:30	18.70	-155.68	424.15	8.22	-147.65	423.82	-143.09	0.91
205	5/12/2020 16:58	5/12/2020 17:02	0:03:31	2.64	-143.66	424.11	-8.03	-136.10	425.61	-142.84	1.16
206	5/12/2020 17:17	5/12/2020 17:20	0:03:00	-46.34	-90.64	438.27	-50.38	-75.05	439.78	-141.85	2.15
207	5/12/2020 17:23	5/12/2020 17:23	0:00:09	-51.71	-53.53	440.22	-51.67	-52.54	440.20	-143.80	0.20
208	5/12/2020 17:28	5/12/2020 17:28	0:00:09	-47.32	-27.68	438.43	-47.05	-26.86	438.32	-143.88	0.12
209	5/12/2020 17:29	5/12/2020 17:31	0:02:21	-45.63	-22.90	437.75	-40.92	-12.94	435.83	-143.73	0.27
210	5/12/2020 17:37	5/12/2020 17:37	0:00:41	-27.39	4.65	430.57	-25.52	6.48	429.91	-143.54	0.46
211	5/12/2020 17:43	5/12/2020 17:49	0:05:51	-8.82	20.09	425.17	8.95	32.75	423.21	-141.55	2.45
212	5/12/2020 17:51	5/12/2020 18:02	0:10:29	16.96	38.83	423.46	44.11	71.99	428.41	-142.03	1.97
213	5/12/2020 18:02	5/12/2020 18:03	0:00:40	45.07	74.22	428.65	46.27	77.32	428.94	-143.91	0.09
214	5/12/2020 18:05	5/12/2020 18:06	0:01:19	49.04	86.54	429.64	50.50	93.86	430.01	-143.74	0.26
215	5/12/2020 18:08	5/12/2020 18:08	0:00:41	51.43	101.56	430.26	51.69	105.52	430.33	-143.69	0.31
216	5/12/2020 18:15	5/12/2020 18:16	0:00:10	45.66	145.23	429.00	45.35	146.00	428.93	-143.93	0.07
217	5/12/2020 18:20	5/12/2020 18:20	0:00:00	34.95	164.26	426.64	34.95	164.26	426.64	-143.98	0.02
218	5/12/2020 18:26	5/12/2020 18:30	0:03:20	17.79	-178.56	424.15	7.78	-170.96	423.89	-143.08	0.92
219	5/12/2020 18:31	5/12/2020 18:35	0:04:11	4.23	-168.42	424.05	-8.48	-159.41	425.74	-142.84	1.16
220	5/12/2020 18:50	5/12/2020 18:53	0:03:00	-46.31	-114.37	438.31	-50.36	-98.80	439.83	-142.02	1.98
221	5/12/2020 18:56	5/12/2020 18:57	0:00:20	-51.73	-77.29	440.29	-51.63	-75.31	440.24	-143.76	0.24
222	5/12/2020 19:01	5/12/2020 19:01	0:00:00	-47.10	-50.60	438.42	-47.10	-50.60	438.42	-143.93	0.07
223	5/12/2020 19:02	5/12/2020 19:04	0:02:19	-45.37	-45.86	437.72	-40.60	-36.00	435.79	-143.74	0.26
224	5/12/2020 19:10	5/12/2020 19:10	0:00:39	-26.99	-18.57	430.54	-25.11	-16.76	429.88	-143.57	0.43
225	5/12/2020 19:16	5/12/2020 19:22	0:06:00	-8.38	-3.22	425.22	9.90	9.80	423.36	-141.40	2.60
226	5/12/2020 19:25	5/12/2020 19:35	0:09:51	18.37	16.34	423.73	43.82	47.73	428.30	-142.06	1.94
227	5/12/2020 19:35	5/12/2020 19:36	0:00:30	45.11	50.69	428.62	46.01	53.00	428.84	-143.90	0.10
228	5/12/2020 19:38	5/12/2020 19:39	0:01:19	49.07	63.03	429.60	50.52	70.35	429.97	-143.79	0.21
229	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	-143.69	0.31
230	5/12/2020 19:49	5/12/2020 19:49	0:00:10	45.32	122.47	428.87	45.01	123.23	428.80	-143.95	0.05
231	5/12/2020 19:53	5/12/2020 19:53	0:00:00	34.47	141.25	426.51	34.47	141.25	426.51	-143.97	0.03
232	5/12/2020 20:00	5/12/2020 20:03	0:03:20	16.74	158.65	424.04	6.70	166.19	423.89	-143.11	0.89
233	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	-142.87	1.13
234	5/12/2020 20:23	5/12/2020 20:26	0:03:00	-46.35	-137.90	438.26	-50.39	-122.31	439.78	-142.05	1.95
235	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	-143.81	0.19
236	5/12/2020 20:34	5/12/2020 20:34	0:00:00	-47.06	-74.12	438.35	-47.06	-74.12	438.35	-144.00	0.00
237	5/12/2020 20:35	5/12/2020 20:38	0:02:19	-45.03	-68.63	437.53	-40.17	-58.90	435.57	-143.74	0.26
238	5/12/2020 20:43	5/12/2020 20:44	0:00:41	-26.46	-41.68	430.30	-24.58	-39.89	429.65	-143.58	0.42
239	5/12/2020 20:49	5/12/2020 20:56	0:06:20	-7.81	-26.44	425.07	11.47	-12.66	423.35	-141.80	2.20
240	5/12/2020 20:58	5/12/2020 21:08	0:09:20	19.42	-6.42	423.81	43.53	23.47	428.24	-141.98	2.02
241	5/12/2020 21:08	5/12/2020 21:09	0:00:30	45.15	27.16	428.63	46.05	29.48	428.86	-143.93	0.07
242	5/12/2020 21:11	5/12/2020 21:12	0:01:19	49.10	39.51	429.62	50.54	46.84	429.98	-143.79	0.21
243	5/12/2020 21:14	5/12/2020 21:14	0:00:50	51.46	54.56	430.22	51.74	59.51	430.30	-143.68	0.32
244	5/12/2020 21:22	5/12/2020 21:22	0:00:21	45.28	98.95	428.86	44.65	100.45	428.71	-143.92	0.08

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 ² /4kHz)	PFD Non- Compliance (dB)
245	5/12/2020 21:26	5/12/2020 21:27	0:00:11	34.42	117.70	426.49	33.99	118.24	426.41	-143.98	0.02
246	5/12/2020 21:33	5/12/2020 21:36	0:03:11	15.68	135.86	423.98	6.13	142.97	423.91	-143.17	0.83
247	5/12/2020 21:37	5/12/2020 21:40	0:02:41	2.57	145.50	424.14	-5.57	151.25	425.16	-142.86	1.14
248	5/12/2020 21:41	5/12/2020 21:42	0:00:59	-7.09	152.33	425.43	-10.12	154.54	426.03	-143.41	0.59
249	5/12/2020 21:44	5/12/2020 21:44	0:00:29	-16.12	159.10	427.49	-17.60	160.28	427.90	-143.86	0.14
250	5/12/2020 21:55	5/12/2020 21:59	0:03:09	-46.10	-162.21	438.10	-50.41	-145.81	439.71	-142.03	1.97
251	5/12/2020 22:02	5/12/2020 22:03	0:00:11	-51.67	-123.29	440.12	-51.62	-122.30	440.09	-143.82	0.18
252	5/12/2020 22:08	5/12/2020 22:11	0:02:31	-44.98	-92.16	437.42	-39.74	-81.81	435.31	-143.73	0.27
253	5/12/2020 22:16	5/12/2020 22:17	0:00:39	-25.93	-64.79	430.04	-24.04	-63.02	429.39	-143.58	0.42
254	5/12/2020 22:22	5/12/2020 22:29	0:06:31	-7.24	-49.65	424.89	12.54	-35.48	423.34	-142.28	1.72
255	5/12/2020 22:31	5/12/2020 22:40	0:09:00	19.97	-29.59	423.84	43.24	-0.77	428.20	-142.06	1.94
256	5/12/2020 22:41	5/12/2020 22:42	0:00:21	45.19	3.64	428.69	45.80	5.17	428.84	-143.94	0.06
257	5/12/2020 22:44	5/12/2020 22:45	0:00:49	49.33	16.90	429.73	50.25	21.47	429.97	-143.75	0.25
258	5/12/2020 22:47	5/12/2020 22:47	0:00:50	51.47	31.07	430.29	51.74	36.02	430.38	-143.65	0.35
259	5/12/2020 22:55	5/12/2020 22:55	0:00:10	44.92	76.18	428.86	44.61	76.93	428.78	-143.94	0.06
260	5/12/2020 23:00	5/12/2020 23:00	0:00:00	33.93	94.68	426.47	33.93	94.68	426.47	-143.98	0.02
261	5/12/2020 23:06	5/12/2020 23:10	0:03:11	14.62	113.06	423.98	5.05	120.12	424.01	-143.22	0.78
262	5/12/2020 23:11	5/12/2020 23:13	0:02:21	1.49	122.64	424.27	-5.63	127.67	425.20	-142.89	1.11
263	5/12/2020 23:14	5/12/2020 23:15	0:00:50	-8.17	129.49	425.66	-10.69	131.33	426.18	-143.49	0.51
264	5/12/2020 23:17	5/12/2020 23:17	0:00:31	-16.68	135.92	427.66	-18.15	137.11	428.07	-143.87	0.13
265	5/12/2020 23:28	5/12/2020 23:32	0:03:09	-46.13	174.27	438.09	-50.42	-169.31	439.69	-141.99	2.01
266	5/12/2020 23:35	5/12/2020 23:36	0:00:20	-51.66	-146.79	440.08	-51.55	-144.81	440.03	-143.80	0.20
267	5/12/2020 23:41	5/12/2020 23:44	0:02:20	-44.62	-114.94	437.25	-39.69	-105.35	435.27	-143.72	0.28
268	5/12/2020 23:49	5/12/2020 23:50	0:00:40	-25.40	-87.91	429.85	-23.50	-86.16	429.21	-143.58	0.42
269	5/12/2020 23:56	5/13/2020 0:00	0:04:19	-6.66	-72.86	424.81	6.56	-63.50	423.39	-143.36	0.64
270	5/13/2020 0:00	5/13/2020 0:02	0:02:01	8.08	-62.41	423.35	14.11	-57.92	423.43	-142.69	1.31
271	5/13/2020 0:05	5/13/2020 0:13	0:08:40	20.52	-52.75	423.94	42.94	-25.01	428.19	-142.44	1.56
272	5/13/2020 0:14	5/13/2020 0:15	0:00:20	44.92	-20.65	428.68	45.53	-19.13	428.83	-143.94	0.06
273	5/13/2020 0:17	5/13/2020 0:18	0:00:50	49.36	-6.61	429.80	50.27	-2.04	430.03	-143.67	0.33
274	5/13/2020 0:20	5/13/2020 0:20	0:00:50	51.48	7.57	430.35	51.75	12.52	430.43	-143.63	0.37
275	5/13/2020 0:28	5/13/2020 0:28	0:00:19	44.88	52.65	428.88	44.24	54.13	428.73	-143.92	0.08
276	5/13/2020 0:33	5/13/2020 0:33	0:00:00	33.44	71.66	426.39	33.44	71.66	426.39	-143.97	0.03
277	5/13/2020 0:40	5/13/2020 0:43	0:03:10	14.06	89.87	423.93	4.47	96.90	424.01	-143.22	0.78
278	5/13/2020 0:44	5/13/2020 0:46	0:02:10	0.40	99.77	424.35	-6.21	104.45	425.27	-143.09	0.91
279	5/13/2020 0:47	5/13/2020 0:48	0:01:00	-9.24	106.64	425.84	-12.26	108.88	426.51	-143.54	0.46
280	5/13/2020 0:50	5/13/2020 0:50	0:00:20	-17.24	112.73	427.79	-18.22	113.53	428.07	-143.91	0.09
281	5/13/2020 1:01	5/13/2020 1:05	0:03:09	-46.17	150.74	438.15	-50.44	167.18	439.77	-141.95	2.05
282	5/13/2020 1:08	5/13/2020 1:09	0:00:20	-51.66	-170.29	440.18	-51.54	-168.31	440.14	-143.78	0.22
283	5/13/2020 1:15	5/13/2020 1:17	0:02:19	-44.26	-137.74	437.25	-39.25	-128.28	435.24	-143.71	0.29
284	5/13/2020 1:22	5/13/2020 1:23	0:00:41	-24.86	-111.04	429.83	-22.96	-109.30	429.19	-143.57	0.43
285	5/13/2020 1:29	5/13/2020 1:33	0:04:19	-6.60	-96.45	424.95	6.62	-87.08	423.52	-143.48	0.52
286	5/13/2020 1:34	5/13/2020 1:36	0:02:10	9.15	-85.25	423.47	15.67	-80.34	423.64	-143.03	0.97
287	5/13/2020 1:38	5/13/2020 1:46	0:08:40	21.07	-75.91	424.10	43.32	-47.84	428.31	-142.78	1.22
288	5/13/2020 1:47	5/13/2020 1:47	0:00:09	44.95	-44.18	428.71	45.26	-43.43	428.78	-143.98	0.02
289	5/13/2020 1:50	5/13/2020 1:51	0:01:11	49.17	-31.02	429.75	50.45	-24.62	430.07	-143.56	0.44
290	5/13/2020 1:53	5/13/2020 1:53	0:00:50	51.48	-15.94	430.34	51.75	-10.98	430.41	-143.62	0.38
291	5/13/2020 2:01	5/13/2020 2:01	0:00:21	44.52	29.85	428.72	43.87	31.32	428.57	-143.91	0.09
292	5/13/2020 2:06	5/13/2020 2:06	0:00:11	33.39	48.09	426.27	32.95	48.62	426.18	-143.97	0.03
293	5/13/2020 2:13	5/13/2020 2:16	0:03:00	12.99	67.05	423.75	3.90	73.67	423.90	-143.24	0.76
294	5/13/2020 2:17	5/13/2020 2:19	0:01:59	-0.17	76.55	424.26	-6.27	80.86	425.14	-143.24	0.76
295	5/13/2020 2:20	5/13/2020 2:22	0:01:11	-9.81	83.43	425.83	-13.33	86.05	426.64	-143.56	0.44
296	5/13/2020 2:23	5/13/2020 2:23	0:00:29	-17.30	89.16	427.70	-18.77	90.36	428.13	-143.92	0.08
297	5/13/2020 2:34	5/13/2020 2:38	0:03:10	-46.21	127.22	438.22	-50.46	143.67	439.87	-142.10	1.90
298	5/13/2020 2:42	5/13/2020 2:42	0:00:09	-51.59	167.20	440.30	-51.53	168.18	440.27	-143.76	0.24
299	5/13/2020 2:48	5/13/2020 2:50	0:02:31	-44.22	-161.27	437.42	-38.82	-151.21	435.27	-143.71	0.29
300	5/13/2020 2:56	5/13/2020 2:56	0:00:30	-23.86	-133.74	429.69	-22.42	-132.45	429.21	-143.60	0.40
301	5/13/2020 3:02	5/13/2020 3:06	0:04:21	-6.03	-119.67	425.02	7.19	-110.31	423.63	-143.57	0.43
302	5/13/2020 3:07	5/13/2020 3:09	0:02:19	10.22	-108.10	423.58	17.21	-102.74	423.84	-143.02	0.98
303	5/13/2020 3:11	5/13/2020 3:20	0:08:49	21.12	-99.49	424.19	43.70	-70.67	428.35	-143.07	0.93
304	5/13/2020 3:23	5/13/2020 3:24	0:01:10	49.20	-54.55	429.66	50.46	-48.13	429.97	-143.45	0.55
305	5/13/2020 3:26	5/13/2020 3:26	0:00:49	51.49	-39.45	430.21	51.75	-34.50	430.28	-143.59	0.41

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^2/4kHz)	PFD Non-Compliance (dB)
306	5/13/2020 3:34	5/13/2020 3:34	0:00:21	44.48	6.32	428.52	43.83	7.78	428.36	-143.90	0.10
307	5/13/2020 3:39	5/13/2020 3:39	0:00:19	33.33	24.53	426.05	32.46	25.58	425.88	-143.97	0.03
308	5/13/2020 3:46	5/13/2020 3:49	0:02:51	11.93	44.22	423.53	3.33	50.45	423.76	-143.27	0.73
309	5/13/2020 3:51	5/13/2020 3:52	0:01:51	-1.26	53.68	424.21	-6.84	57.65	425.08	-143.38	0.62
310	5/13/2020 3:54	5/13/2020 3:55	0:01:20	-10.38	60.22	425.80	-14.39	63.24	426.76	-143.55	0.45
311	5/13/2020 3:56	5/13/2020 3:57	0:00:41	-17.85	65.98	427.72	-19.81	67.59	428.30	-143.92	0.08
312	5/13/2020 4:07	5/13/2020 4:10	0:03:09	-45.96	102.91	438.03	-50.33	119.23	439.74	-142.17	1.83
313	5/13/2020 4:15	5/13/2020 4:15	0:00:20	-51.59	143.70	440.24	-51.44	145.66	440.19	-143.77	0.23
314	5/13/2020 4:21	5/13/2020 4:23	0:02:30	-43.85	175.92	437.25	-38.37	-174.15	435.08	-143.69	0.31
315	5/13/2020 4:29	5/13/2020 4:29	0:00:30	-23.32	-156.88	429.52	-21.88	-155.60	429.06	-143.62	0.38
316	5/13/2020 4:35	5/13/2020 4:39	0:04:19	-5.46	-142.89	424.95	7.76	-133.52	423.65	-143.65	0.35
317	5/13/2020 4:41	5/13/2020 4:43	0:02:30	11.79	-130.56	423.63	19.24	-124.71	424.04	-142.92	1.08
318	5/13/2020 4:44	5/13/2020 4:53	0:08:40	21.67	-122.64	424.28	43.74	-94.21	428.39	-143.28	0.72
319	5/13/2020 4:56	5/13/2020 4:57	0:01:29	48.80	-79.83	429.59	50.49	-71.64	429.99	-143.38	0.62
320	5/13/2020 4:59	5/13/2020 4:59	0:00:50	51.50	-62.95	430.23	51.76	-57.99	430.29	-143.58	0.42
321	5/13/2020 5:07	5/13/2020 5:07	0:00:19	44.12	-16.48	428.43	43.45	-15.03	428.27	-143.88	0.12
322	5/13/2020 5:11	5/13/2020 5:12	0:00:50	34.14	-0.10	426.19	31.96	2.54	425.76	-143.96	0.04
323	5/13/2020 5:20	5/13/2020 5:22	0:02:31	10.86	21.39	423.47	3.26	26.87	423.71	-143.27	0.73
324	5/13/2020 5:24	5/13/2020 5:26	0:01:29	-2.85	31.18	424.36	-7.42	34.43	425.12	-143.54	0.46
325	5/13/2020 5:27	5/13/2020 5:28	0:01:20	-11.45	37.38	425.97	-15.45	40.43	426.97	-143.50	0.50
326	5/13/2020 5:29	5/13/2020 5:30	0:01:20	-16.93	41.61	427.38	-20.85	44.84	428.55	-143.89	0.11
327	5/13/2020 5:40	5/13/2020 5:43	0:03:09	-46.00	79.38	437.97	-50.35	95.73	439.68	-142.14	1.86
328	5/13/2020 5:48	5/13/2020 5:48	0:00:21	-51.58	120.20	440.16	-51.43	122.17	440.11	-143.73	0.27
329	5/13/2020 5:54	5/13/2020 5:56	0:02:19	-43.47	153.11	437.03	-38.32	162.31	435.00	-143.68	0.32
330	5/13/2020 6:02	5/13/2020 6:03	0:00:30	-22.78	179.99	429.30	-21.33	-178.75	428.84	-143.65	0.35
331	5/13/2020 6:08	5/13/2020 6:12	0:04:30	-5.39	-166.46	424.91	8.33	-156.73	423.62	-143.71	0.29
332	5/13/2020 6:14	5/13/2020 6:26	0:11:51	12.86	-153.38	423.64	44.12	-117.01	428.46	-142.83	1.17
333	5/13/2020 6:28	5/13/2020 6:29	0:00:11	48.61	-104.21	429.52	48.83	-103.34	429.58	-143.89	0.11
334	5/13/2020 6:29	5/13/2020 6:30	0:00:59	49.46	-100.67	429.73	50.51	-95.14	429.98	-143.57	0.43
335	5/13/2020 6:32	5/13/2020 6:32	0:00:50	51.52	-86.45	430.21	51.76	-81.49	430.27	-143.57	0.43
336	5/13/2020 6:40	5/13/2020 6:41	0:00:30	44.08	-40.01	428.41	43.07	-37.85	428.17	-143.87	0.13
337	5/13/2020 6:44	5/13/2020 6:45	0:00:59	34.09	-23.65	426.18	31.46	-20.51	425.66	-143.95	0.05
338	5/13/2020 6:53	5/13/2020 6:55	0:02:29	10.29	-1.81	423.47	2.68	3.65	423.76	-143.37	0.63
339	5/13/2020 6:58	5/13/2020 6:59	0:00:59	-4.44	8.68	424.61	-7.48	10.85	425.14	-143.68	0.32
340	5/13/2020 7:00	5/13/2020 7:04	0:03:39	-12.02	14.18	426.11	-22.84	22.96	429.18	-143.45	0.55
341	5/13/2020 7:13	5/13/2020 7:16	0:03:09	-46.04	55.86	437.94	-50.37	72.23	439.63	-142.04	1.96
342	5/13/2020 7:21	5/13/2020 7:21	0:00:11	-51.50	97.69	440.06	-51.42	98.67	440.03	-143.80	0.20
343	5/13/2020 7:27	5/13/2020 7:29	0:02:31	-43.43	129.58	436.92	-37.87	139.37	434.73	-143.66	0.34
344	5/13/2020 7:35	5/13/2020 7:36	0:00:30	-22.23	156.84	429.03	-20.78	158.10	428.58	-143.66	0.34
345	5/13/2020 7:41	5/13/2020 7:46	0:04:31	-4.81	170.32	424.74	8.91	-179.94	423.55	-143.73	0.27
346	5/13/2020 7:47	5/13/2020 7:59	0:11:29	13.93	-176.19	423.63	44.16	-140.53	428.49	-143.02	0.98
347	5/13/2020 8:01	5/13/2020 8:02	0:00:11	48.64	-127.71	429.57	48.86	-126.84	429.62	-143.98	0.02
348	5/13/2020 8:02	5/13/2020 8:03	0:00:39	49.87	-122.35	429.87	50.53	-118.63	430.03	-143.76	0.24
349	5/13/2020 8:05	5/13/2020 8:05	0:00:50	51.53	-109.93	430.27	51.77	-104.97	430.33	-143.54	0.46
350	5/13/2020 8:13	5/13/2020 8:14	0:00:30	43.70	-62.81	428.39	42.67	-60.68	428.15	-143.88	0.12
351	5/13/2020 8:18	5/13/2020 8:19	0:01:01	33.60	-46.66	426.17	30.95	-43.56	425.66	-143.94	0.06
352	5/13/2020 8:26	5/13/2020 8:28	0:02:21	9.21	-24.64	423.58	2.11	-19.56	423.91	-143.44	0.56
353	5/13/2020 8:31	5/13/2020 8:32	0:00:39	-5.53	-14.18	424.89	-7.55	-12.72	425.25	-143.82	0.18
354	5/13/2020 8:33	5/13/2020 8:37	0:03:59	-13.09	-8.63	426.46	-24.81	1.13	429.91	-143.46	0.54
355	5/13/2020 8:41	5/13/2020 8:42	0:01:00	-33.44	10.31	433.04	-35.99	13.60	434.02	-143.43	0.57
356	5/13/2020 8:46	5/13/2020 8:49	0:03:09	-46.07	32.34	437.99	-50.39	48.73	439.66	-141.83	2.17
357	5/13/2020 8:54	5/13/2020 8:54	0:00:10	-51.49	74.20	440.06	-51.41	75.18	440.03	-143.85	0.15
358	5/13/2020 9:00	5/13/2020 9:03	0:02:30	-43.04	106.76	436.73	-37.41	116.41	434.49	-143.65	0.35
359	5/13/2020 9:08	5/13/2020 9:09	0:00:30	-21.68	133.70	428.78	-20.23	134.95	428.33	-143.67	0.33
360	5/13/2020 9:14	5/13/2020 9:19	0:04:40	-4.24	147.11	424.57	9.99	157.23	423.47	-143.73	0.27
361	5/13/2020 9:21	5/13/2020 9:32	0:11:00	15.50	161.40	423.63	44.21	-164.06	428.47	-143.08	0.92
362	5/13/2020 9:36	5/13/2020 9:36	0:00:30	50.07	-144.93	429.90	50.55	-142.13	430.02	-143.91	0.09
363	5/13/2020 9:38	5/13/2020 9:38	0:00:50	51.53	-133.42	430.27	51.77	-128.46	430.33	-143.50	0.50
364	5/13/2020 9:46	5/13/2020 9:47	0:00:30	43.65	-86.33	428.42	42.63	-84.21	428.18	-143.86	0.14
365	5/13/2020 9:51	5/13/2020 9:52	0:00:59	33.10	-69.69	426.11	30.44	-66.62	425.62	-143.92	0.08
366	5/13/2020 9:59	5/13/2020 10:02	0:02:19	8.64	-47.85	423.67	1.53	-42.78	424.06	-143.49	0.51

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^2/4kHz)	PFD Non-Compliance (dB)
367	5/13/2020 10:04	5/13/2020 10:05	0:00:21	-7.11	-36.66	425.28	-8.13	-35.93	425.47	-143.92	0.08
368	5/13/2020 10:07	5/13/2020 10:12	0:04:59	-14.16	-31.45	426.85	-28.60	-18.76	431.38	-143.43	0.57
369	5/13/2020 10:13	5/13/2020 10:15	0:01:40	-33.07	-13.77	433.04	-37.28	-8.22	434.67	-142.72	1.28
370	5/13/2020 10:18	5/13/2020 10:18	0:00:11	-43.27	2.10	437.04	-43.61	2.81	437.17	-143.98	0.02
371	5/13/2020 10:19	5/13/2020 10:22	0:02:59	-46.11	8.81	438.15	-50.25	24.29	439.74	-141.56	2.44
372	5/13/2020 10:27	5/13/2020 10:27	0:00:19	-51.48	50.70	440.17	-51.31	52.65	440.10	-143.85	0.15
373	5/13/2020 10:33	5/13/2020 10:36	0:02:40	-43.00	83.22	436.78	-36.95	93.44	434.35	-143.63	0.37
374	5/13/2020 10:42	5/13/2020 10:42	0:00:39	-21.14	110.54	428.58	-19.19	112.19	427.98	-143.65	0.35
375	5/13/2020 10:48	5/13/2020 10:52	0:04:29	-3.15	124.25	424.32	10.56	134.02	423.35	-143.73	0.27
376	5/13/2020 10:54	5/13/2020 11:05	0:10:30	17.05	139.00	423.59	44.25	172.41	428.30	-143.16	0.84
377	5/13/2020 11:11	5/13/2020 11:12	0:00:59	51.54	-156.92	430.10	51.79	-150.96	430.17	-143.44	0.56
378	5/13/2020 11:19	5/13/2020 11:20	0:00:41	43.61	-109.86	428.30	42.23	-107.06	427.98	-143.87	0.13
379	5/13/2020 11:24	5/13/2020 11:25	0:01:01	32.60	-92.72	425.95	29.93	-89.69	425.47	-143.90	0.10
380	5/13/2020 11:33	5/13/2020 11:34	0:00:59	7.55	-70.69	423.69	4.51	-68.52	423.83	-143.54	0.46
381	5/13/2020 11:34	5/13/2020 11:35	0:00:30	2.98	-67.44	423.94	1.46	-66.36	424.08	-143.89	0.11
382	5/13/2020 11:40	5/13/2020 11:49	0:08:30	-15.22	-54.25	427.15	-38.53	-29.97	435.19	-142.08	1.92
383	5/13/2020 11:50	5/13/2020 11:52	0:01:10	-42.63	-22.83	436.81	-44.95	-17.78	437.73	-143.87	0.13
384	5/13/2020 11:52	5/13/2020 11:55	0:02:50	-46.44	-13.91	438.31	-50.28	0.79	439.78	-141.21	2.79
385	5/13/2020 12:00	5/13/2020 12:00	0:00:10	-51.39	28.19	440.15	-51.30	29.16	440.12	-143.87	0.13
386	5/13/2020 12:06	5/13/2020 12:09	0:02:40	-42.60	60.39	436.63	-36.49	70.48	434.17	-143.63	0.37
387	5/13/2020 12:15	5/13/2020 12:15	0:00:41	-20.59	87.39	428.38	-18.64	89.02	427.78	-143.63	0.37
388	5/13/2020 12:21	5/13/2020 12:25	0:04:40	-2.58	101.03	424.19	11.63	111.19	423.30	-143.73	0.27
389	5/13/2020 12:28	5/13/2020 12:38	0:09:31	19.57	117.44	423.73	43.97	148.16	428.17	-143.45	0.55
390	5/13/2020 12:44	5/13/2020 12:45	0:00:59	51.55	179.59	430.04	51.79	-174.44	430.11	-143.55	0.45
391	5/13/2020 12:52	5/13/2020 12:53	0:01:09	44.22	-134.84	428.39	41.82	-129.91	427.85	-143.86	0.14
392	5/13/2020 12:57	5/13/2020 12:58	0:01:10	32.54	-116.27	425.92	29.41	-112.76	425.37	-143.89	0.11
393	5/13/2020 13:06	5/13/2020 13:07	0:01:01	6.98	-93.90	423.74	3.93	-91.73	423.91	-143.56	0.44
394	5/13/2020 13:08	5/13/2020 13:08	0:00:11	1.39	-89.94	424.12	0.88	-89.58	424.17	-143.95	0.05
395	5/13/2020 13:14	5/13/2020 13:28	0:14:30	-16.77	-76.65	427.64	-50.13	-23.63	439.79	-141.13	2.87
396	5/13/2020 13:33	5/13/2020 13:33	0:00:11	-51.38	4.69	440.21	-51.28	5.67	440.17	-143.88	0.12
397	5/13/2020 13:39	5/13/2020 13:42	0:02:41	-42.20	37.54	436.52	-36.02	47.50	434.02	-143.63	0.37
398	5/13/2020 13:48	5/13/2020 13:49	0:00:39	-20.04	64.23	428.24	-18.08	65.85	427.64	-143.61	0.39
399	5/13/2020 13:54	5/13/2020 13:59	0:04:49	-2.00	77.81	424.11	12.70	88.37	423.33	-143.73	0.27
400	5/13/2020 14:02	5/13/2020 14:11	0:08:51	21.58	95.53	423.97	44.01	124.63	428.27	-143.45	0.55
401	5/13/2020 14:17	5/13/2020 14:18	0:00:50	51.62	157.09	430.19	51.79	162.07	430.24	-143.71	0.29
402	5/13/2020 14:25	5/13/2020 14:26	0:01:20	44.18	-158.37	428.53	41.41	-152.77	427.90	-143.86	0.14
403	5/13/2020 14:30	5/13/2020 14:31	0:00:59	32.04	-139.32	425.96	29.35	-136.32	425.49	-143.88	0.12
404	5/13/2020 14:39	5/13/2020 14:40	0:00:51	5.90	-116.76	423.88	3.36	-114.95	424.04	-143.63	0.37
405	5/13/2020 14:47	5/13/2020 15:01	0:14:11	-17.82	-99.43	428.00	-50.15	-47.14	439.78	-141.45	2.55
406	5/13/2020 15:05	5/13/2020 15:05	0:00:11	-51.79	-26.71	440.34	-51.76	-25.71	440.33	-143.57	0.43
407	5/13/2020 15:19	5/13/2020 15:19	0:00:41	-26.64	34.62	430.91	-24.76	36.42	430.49	-143.76	0.24
408	5/13/2020 15:21	5/13/2020 15:22	0:00:40	-19.46	41.09	429.71	-17.49	42.70	429.56	-143.69	0.31
409	5/13/2020 15:27	5/13/2020 15:28	0:00:39	-0.36	55.34	431.67	1.67	56.77	432.33	-143.89	0.11
410	5/13/2020 15:38	5/13/2020 15:39	0:01:19	30.94	81.06	450.31	34.43	85.21	453.40	-143.94	0.06
411	5/13/2020 16:21	5/13/2020 16:29	0:08:10	-20.34	-121.10	464.29	-41.60	-95.82	457.46	-142.05	1.95
412	5/13/2020 16:31	5/13/2020 16:34	0:03:20	-44.96	-88.75	455.87	-49.94	-72.06	452.33	-142.01	1.99
413	5/13/2020 16:46	5/13/2020 16:49	0:02:51	-41.88	-9.24	436.97	-35.21	1.19	433.62	-143.63	0.37
414	5/13/2020 16:55	5/13/2020 16:55	0:00:29	-18.57	18.06	429.51	-17.09	19.26	429.42	-143.80	0.20
415	5/13/2020 17:01	5/13/2020 17:02	0:00:39	0.05	31.86	431.66	2.09	33.30	432.33	-143.91	0.09
416	5/13/2020 17:12	5/13/2020 17:13	0:01:31	30.86	57.21	450.10	34.77	61.89	453.58	-143.88	0.12
417	5/13/2020 17:57	5/13/2020 17:59	0:01:41	-26.37	-139.40	488.17	-30.89	-134.70	490.05	-142.63	1.37
418	5/13/2020 17:59	5/13/2020 18:02	0:03:00	-33.07	-132.18	490.98	-40.32	-121.87	494.17	-143.00	1.00
419	5/13/2020 18:06	5/13/2020 18:08	0:01:49	-46.82	-107.61	497.03	-49.41	-98.37	498.14	-143.04	0.96
420	5/13/2020 19:31	5/13/2020 19:33	0:01:41	-26.96	-162.76	489.12	-31.45	-158.00	490.46	-142.87	1.13
421	5/13/2020 19:34	5/13/2020 19:37	0:02:49	-33.19	-155.97	490.99	-40.05	-146.26	493.10	-142.92	1.08
422	5/13/2020 19:40	5/13/2020 19:42	0:01:59	-46.35	-132.90	494.89	-49.27	-122.93	495.56	-143.19	0.81
423	5/13/2020 21:06	5/13/2020 21:07	0:01:40	-27.52	173.89	489.24	-31.99	178.70	490.58	-143.05	0.95
424	5/13/2020 21:08	5/13/2020 21:11	0:02:21	-34.13	-178.71	491.24	-39.76	-170.65	492.95	-143.09	0.91
425	5/13/2020 21:14	5/13/2020 21:16	0:02:01	-46.13	-157.41	494.76	-49.11	-147.52	495.45	-143.31	0.69
426	5/13/2020 22:40	5/13/2020 22:42	0:01:20	-28.53	151.01	489.56	-32.08	154.91	490.62	-143.18	0.82
427	5/13/2020 22:43	5/13/2020 22:45	0:02:00	-34.65	158.04	491.40	-39.46	164.96	492.87	-143.27	0.73

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 ² /4kHz)	PFD Non-Compliance (dB)
428	5/13/2020 22:48	5/13/2020 22:50	0:02:00	-45.90	178.08	494.70	-48.95	-172.10	495.42	-143.35	0.65
429	5/14/2020 0:15	5/14/2020 0:16	0:01:01	-29.53	128.16	489.86	-32.18	131.11	490.66	-143.31	0.69
430	5/14/2020 0:17	5/14/2020 0:18	0:01:29	-35.16	134.79	491.57	-38.78	139.97	492.68	-143.47	0.53
431	5/14/2020 0:22	5/14/2020 0:24	0:02:00	-45.67	153.58	494.68	-48.78	163.32	495.44	-143.36	0.64
432	5/14/2020 1:49	5/14/2020 1:50	0:00:41	-30.52	105.32	490.14	-32.28	107.31	490.68	-143.74	0.26
433	5/14/2020 1:51	5/14/2020 1:52	0:01:01	-36.08	112.11	491.87	-38.48	115.59	492.62	-143.66	0.34
434	5/14/2020 1:56	5/14/2020 1:58	0:01:49	-45.74	129.84	494.77	-48.61	138.74	495.50	-143.49	0.51
435	5/14/2020 3:26	5/14/2020 3:27	0:00:50	-36.58	88.89	491.94	-38.57	91.81	492.56	-143.71	0.29
436	5/14/2020 3:30	5/14/2020 3:32	0:01:50	-45.51	105.33	494.65	-48.43	114.17	495.41	-143.62	0.38
437	5/14/2020 5:00	5/14/2020 5:01	0:00:49	-37.07	65.67	492.02	-39.04	68.64	492.64	-143.62	0.38
438	5/14/2020 5:04	5/14/2020 5:06	0:01:40	-45.28	80.84	494.51	-48.01	88.76	495.24	-143.72	0.28
439	5/14/2020 6:34	5/14/2020 6:35	0:00:50	-37.56	42.48	492.15	-39.51	45.48	492.76	-143.54	0.46
440	5/14/2020 6:38	5/14/2020 6:39	0:01:10	-45.65	57.85	494.59	-47.57	63.39	495.10	-143.86	0.14
441	5/14/2020 8:09	5/14/2020 8:10	0:00:50	-38.05	19.29	492.36	-39.97	22.33	492.96	-143.46	0.54
442	5/14/2020 8:13	5/14/2020 8:13	0:00:00	-46.84	37.23	494.95	-46.84	37.23	494.95	-144.00	0.00
443	5/14/2020 9:43	5/14/2020 9:44	0:00:50	-38.53	-3.89	492.66	-40.43	-0.81	493.25	-143.38	0.62
444	5/14/2020 11:17	5/14/2020 11:18	0:00:50	-39.00	-27.06	492.87	-40.88	-23.93	493.45	-143.41	0.59
445	5/14/2020 12:09	5/14/2020 12:09	0:00:30	47.67	160.02	484.49	48.39	162.53	484.78	-143.69	0.31
446	5/14/2020 12:52	5/14/2020 12:52	0:00:29	-39.85	-49.60	493.21	-40.96	-47.69	493.55	-143.60	0.40
447	5/14/2020 13:43	5/14/2020 13:44	0:00:30	47.72	136.29	484.62	48.44	138.81	484.91	-143.73	0.27
448	5/14/2020 14:26	5/14/2020 14:27	0:00:19	-40.67	-72.10	493.51	-41.40	-70.81	493.73	-143.80	0.20
449	5/14/2020 15:18	5/14/2020 15:18	0:00:00	48.26	114.24	484.82	48.26	114.24	484.82	-143.99	0.01
450	5/14/2020 16:01	5/14/2020 16:01	0:00:00	-41.48	-94.57	493.71	-41.48	-94.57	493.71	-143.99	0.01
451	5/15/2020 18:50	5/15/2020 18:50	0:00:11	-51.80	-97.74	495.95	-51.80	-96.75	495.90	-143.88	0.12
452	5/15/2020 20:24	5/15/2020 20:24	0:00:09	-51.80	-120.43	495.80	-51.79	-119.45	495.76	-143.82	0.18
453	5/15/2020 21:58	5/15/2020 21:58	0:00:09	-51.78	-143.13	495.73	-51.76	-142.15	495.68	-143.94	0.06

Max. Exceedance: 3.12 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^2/4kHz)	PFD Non-Compliance (dB)
1	5/11/2020 21:16	5/11/2020 22:19	1:02:41	-50.72	-95.39	439.80	13.55	131.92	423.87	-139.32	4.68
2	5/11/2020 22:20	5/11/2020 22:38	0:18:29	11.04	133.81	423.82	-41.59	-177.75	436.37	-137.87	6.13
3	5/11/2020 22:40	5/11/2020 23:52	1:12:39	-44.01	-172.87	437.30	12.98	108.72	423.90	-139.33	4.67
4	5/11/2020 23:53	5/12/2020 0:11	0:18:11	10.47	110.60	423.86	-41.27	158.04	436.22	-138.08	5.92
5	5/12/2020 0:13	5/12/2020 1:26	1:12:51	-44.05	163.60	437.30	12.42	85.52	423.83	-139.34	4.66
6	5/12/2020 1:26	5/12/2020 1:44	0:18:00	9.90	87.39	423.80	-41.32	134.50	436.28	-138.59	5.41
7	5/12/2020 1:46	5/12/2020 2:59	1:12:51	-44.09	140.07	437.37	12.35	61.94	423.66	-139.27	4.73
8	5/12/2020 3:00	5/12/2020 3:17	0:17:50	9.33	64.18	423.63	-41.37	110.96	436.29	-138.63	5.37
9	5/12/2020 3:19	5/12/2020 4:32	1:13:00	-44.13	116.53	437.40	11.79	38.74	423.49	-139.10	4.90
10	5/12/2020 4:33	5/12/2020 4:50	0:17:40	8.77	40.97	423.48	-41.41	87.42	436.21	-138.68	5.32
11	5/12/2020 4:52	5/12/2020 6:05	1:13:11	-44.18	93.00	437.31	11.22	15.53	423.44	-138.85	5.15
12	5/12/2020 6:06	5/12/2020 6:23	0:17:39	8.70	17.39	423.45	-41.46	63.88	436.17	-138.62	5.38
13	5/12/2020 6:25	5/12/2020 7:38	1:13:20	-44.22	69.47	437.28	10.65	-7.67	423.46	-138.85	5.15
14	5/12/2020 7:39	5/12/2020 7:57	0:17:40	8.13	-5.82	423.48	-41.87	41.01	436.31	-138.98	5.02
15	5/12/2020 7:58	5/12/2020 9:11	1:13:41	-44.27	45.94	437.27	9.57	-30.50	423.57	-138.84	5.16
16	5/12/2020 9:12	5/12/2020 9:30	0:17:41	8.06	-29.40	423.59	-41.92	17.48	436.40	-139.90	4.10
17	5/12/2020 9:31	5/12/2020 11:03	1:32:00	-44.31	22.41	437.35	-42.32	-5.38	436.71	-138.83	5.17
18	5/12/2020 11:04	5/12/2020 12:36	1:31:59	-44.35	-1.12	437.51	-42.37	-28.91	436.73	-138.81	5.19
19	5/12/2020 12:36	5/12/2020 14:07	1:30:20	-43.74	-26.10	437.27	-37.90	-60.14	435.07	-138.77	5.23
20	5/12/2020 14:08	5/12/2020 15:39	1:31:49	-40.23	-56.42	435.98	-37.55	-84.28	434.91	-138.72	5.28
21	5/12/2020 15:41	5/12/2020 17:12	1:31:40	-40.28	-79.97	435.98	-37.20	-108.42	434.72	-138.67	5.33
22	5/12/2020 17:14	5/12/2020 18:45	1:31:29	-40.70	-102.87	436.08	-37.15	-132.13	434.74	-138.54	5.46
23	5/12/2020 18:47	5/12/2020 20:18	1:31:20	-41.03	-125.93	436.25	-37.20	-155.68	434.71	-138.39	5.61
24	5/12/2020 20:20	5/12/2020 21:51	1:31:10	-41.08	-149.48	436.22	-36.85	-179.82	434.53	-138.79	5.21
25	5/12/2020 21:53	5/12/2020 23:24	1:31:20	-40.76	-173.67	436.04	-36.90	156.63	434.53	-139.02	4.98
26	5/12/2020 23:26	5/13/2020 0:57	1:31:09	-40.81	162.79	436.04	-36.54	132.50	434.41	-138.98	5.02
27	5/13/2020 0:59	5/13/2020 2:30	1:31:20	-40.48	138.60	435.94	-36.60	108.95	434.42	-138.94	5.06
28	5/13/2020 2:31	5/13/2020 4:03	1:31:59	-39.77	113.77	435.67	-37.47	86.56	434.65	-139.09	4.91
29	5/13/2020 4:04	5/13/2020 18:11	14:06:39	-39.05	88.98	435.28	-51.66	-81.50	499.07	-138.11	5.89
30	5/13/2020 18:12	5/13/2020 19:45	1:32:58	-51.77	-73.65	499.11	-51.68	-105.13	495.74	-139.86	4.14
31	5/13/2020 19:45	5/13/2020 21:19	1:33:40	-51.78	-102.18	495.66	-51.69	-128.81	495.65	-140.04	3.96
32	5/13/2020 21:20	5/14/2020 4:52	7:32:10	-51.78	-125.87	495.57	-14.23	42.82	485.51	-140.17	3.83
33	5/14/2020 4:52	5/14/2020 6:26	1:33:39	-16.19	44.35	485.96	-14.83	19.38	485.64	-140.61	3.39
34	5/14/2020 6:27	5/14/2020 8:00	1:33:21	-17.27	21.30	486.22	-14.94	-4.45	485.75	-140.53	3.47
35	5/14/2020 8:02	5/14/2020 9:35	1:33:00	-18.84	-1.33	486.69	-15.54	-27.89	486.03	-140.45	3.55
36	5/14/2020 9:36	5/14/2020 11:09	1:32:49	-19.91	-24.35	487.11	-16.14	-51.33	486.21	-140.37	3.63
37	5/14/2020 11:11	5/14/2020 12:43	1:32:41	-20.98	-47.35	487.44	-16.74	-74.76	486.43	-140.39	3.61
38	5/14/2020 12:45	5/14/2020 14:18	1:32:30	-22.51	-69.92	487.94	-17.82	-97.80	486.77	-140.59	3.41
39	5/14/2020 14:20	5/14/2020 15:52	1:32:19	-23.56	-92.89	488.30	-18.41	-121.23	486.93	-140.79	3.21
40	5/14/2020 15:54	5/14/2020 17:27	1:32:31	-24.13	-116.28	488.46	-19.48	-144.26	487.23	-140.98	3.02
41	5/14/2020 17:29	5/14/2020 19:01	1:32:30	-25.17	-139.23	488.79	-20.55	-167.27	487.50	-141.17	2.83
42	5/14/2020 19:03	5/14/2020 20:36	1:32:50	-25.74	-162.60	488.94	-22.09	170.16	487.87	-141.36	2.64
43	5/14/2020 20:37	5/14/2020 22:10	1:33:00	-26.31	174.04	489.06	-23.15	147.18	488.19	-141.55	2.45
44	5/14/2020 22:12	5/14/2020 23:45	1:33:20	-26.88	150.69	489.24	-24.67	124.66	488.60	-141.55	2.45
45	5/14/2020 23:46	5/15/2020 1:19	1:33:20	-27.90	127.80	489.54	-25.70	101.73	488.86	-141.55	2.45
46	5/15/2020 1:20	5/15/2020 2:54	1:33:41	-28.45	104.46	489.68	-27.19	79.26	489.20	-141.55	2.45
47	5/15/2020 2:55	5/15/2020 4:29	1:33:39	-29.46	81.60	489.89	-28.21	56.38	489.42	-141.55	2.45
48	5/15/2020 4:29	5/15/2020 6:03	1:33:50	-30.45	58.76	490.12	-29.66	33.99	489.85	-141.55	2.45
49	5/15/2020 6:04	5/15/2020 7:38	1:33:59	-31.44	35.95	490.41	-31.10	11.66	490.36	-141.54	2.46
50	5/15/2020 7:38	5/15/2020 9:12	1:34:01	-32.41	13.17	490.77	-32.07	-11.14	490.81	-141.53	2.47
51	5/15/2020 9:13	5/15/2020 14:00	4:47:10	-33.79	-9.07	491.35	-44.58	-62.93	494.85	-141.40	2.60
52	5/15/2020 14:01	5/15/2020 15:35	1:33:50	-45.50	-60.70	495.10	-44.97	-85.94	494.91	-141.27	2.73
53	5/15/2020 15:35	5/15/2020 17:09	1:33:39	-46.16	-82.91	495.22	-45.34	-108.93	495.02	-141.14	2.86
54	5/15/2020 17:10	5/15/2020 18:43	1:33:41	-46.78	-105.07	495.40	-46.00	-131.15	495.19	-141.00	3.00
55	5/15/2020 18:44	5/16/2020 23:31	4:46:50	-47.11	-127.99	495.47	11.46	-75.36	475.40	-140.81	3.19

Max. Exceedance: 6.13 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^2/4kHz)	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	-143.25	0.75
2	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	-143.75	0.25
3	5/11/2020 21:21	5/11/2020 21:27	0:05:30	-44.30	-72.53	437.23	-31.35	-52.41	432.11	-143.38	0.62
4	5/11/2020 22:04	5/11/2020 22:09	0:05:11	49.53	79.40	429.83	40.36	103.38	427.73	-142.83	1.17
5	5/11/2020 22:11	5/11/2020 22:13	0:02:49	37.22	108.30	427.05	29.88	117.41	425.64	-142.38	1.62
6	5/11/2020 22:14	5/11/2020 22:15	0:00:29	28.05	119.33	425.34	26.66	120.72	425.12	-143.94	0.06
7	5/11/2020 22:49	5/11/2020 22:50	0:01:09	-51.38	-124.67	440.00	-50.55	-117.95	439.67	-143.25	0.75
8	5/11/2020 22:51	5/11/2020 22:52	0:00:50	-49.12	-110.64	439.10	-47.98	-106.31	438.64	-143.77	0.23
9	5/11/2020 22:54	5/11/2020 23:00	0:05:30	-44.25	-96.06	437.15	-31.29	-75.97	432.02	-143.38	0.62
10	5/11/2020 23:37	5/11/2020 23:43	0:05:21	49.50	55.90	429.91	39.93	80.48	427.72	-142.85	1.15
11	5/11/2020 23:44	5/11/2020 23:46	0:02:40	36.76	85.34	427.04	29.82	93.84	425.70	-142.38	1.62
12	5/11/2020 23:48	5/11/2020 23:48	0:00:09	27.07	96.69	425.25	26.60	97.15	425.18	-143.95	0.05
13	5/12/2020 0:22	5/12/2020 0:23	0:01:10	-51.36	-148.17	439.98	-50.53	-141.46	439.65	-143.24	0.76
14	5/12/2020 0:24	5/12/2020 0:25	0:00:41	-48.88	-133.27	438.99	-47.95	-129.83	438.62	-143.77	0.23
15	5/12/2020 0:27	5/12/2020 0:33	0:05:30	-43.88	-118.86	436.99	-30.79	-99.03	431.84	-143.38	0.62
16	5/12/2020 1:10	5/12/2020 1:16	0:05:30	49.47	32.38	429.94	39.49	57.56	427.63	-142.84	1.16
17	5/12/2020 1:17	5/12/2020 1:20	0:02:51	36.70	61.78	427.02	29.31	70.76	425.59	-142.37	1.63
18	5/12/2020 1:21	5/12/2020 1:21	0:00:11	26.54	73.58	425.14	26.07	74.04	425.07	-143.97	0.03
19	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	-143.23	0.77
20	5/12/2020 1:57	5/12/2020 1:58	0:00:50	-48.85	-156.79	439.14	-47.66	-152.51	438.67	-143.78	0.22
21	5/12/2020 2:00	5/12/2020 2:06	0:05:41	-43.84	-142.40	437.15	-30.28	-122.11	431.85	-143.37	0.63
22	5/12/2020 2:43	5/12/2020 2:49	0:05:30	49.24	9.76	429.77	39.06	34.63	427.39	-142.84	1.16
23	5/12/2020 2:50	5/12/2020 2:53	0:02:49	36.24	38.80	426.77	28.79	47.67	425.34	-142.35	1.65
24	5/12/2020 2:54	5/12/2020 2:54	0:00:09	26.01	50.47	424.90	25.54	50.92	424.83	-143.99	0.01
25	5/12/2020 3:28	5/12/2020 3:29	0:01:19	-51.34	164.82	440.23	-50.34	172.46	439.85	-143.22	0.78
26	5/12/2020 3:30	5/12/2020 3:31	0:00:39	-48.60	-179.43	439.18	-47.63	-176.04	438.80	-143.79	0.21
27	5/12/2020 3:33	5/12/2020 3:39	0:05:39	-43.46	-165.22	437.16	-29.77	-145.18	431.82	-143.38	0.62
28	5/12/2020 4:16	5/12/2020 4:22	0:05:30	49.22	-13.76	429.64	39.01	11.08	427.21	-142.83	1.17
29	5/12/2020 4:23	5/12/2020 4:26	0:02:51	35.77	15.81	426.51	28.28	24.58	425.08	-142.33	1.67
30	5/12/2020 5:01	5/12/2020 5:02	0:01:10	-51.23	142.29	440.11	-50.32	148.96	439.77	-143.21	0.79
31	5/12/2020 5:03	5/12/2020 5:04	0:00:39	-48.57	157.05	439.10	-47.60	160.45	438.73	-143.79	0.21
32	5/12/2020 5:06	5/12/2020 5:12	0:05:49	-43.42	171.24	437.09	-29.26	-168.26	431.61	-143.37	0.63
33	5/12/2020 5:49	5/12/2020 5:55	0:05:40	49.19	-37.27	429.63	38.57	-11.85	427.11	-142.84	1.16
34	5/12/2020 5:56	5/12/2020 5:59	0:03:00	35.72	-7.75	426.49	27.76	1.49	424.98	-142.37	1.63
35	5/12/2020 6:34	5/12/2020 6:35	0:01:20	-51.22	118.80	440.05	-50.14	126.38	439.64	-143.20	0.80
36	5/12/2020 6:36	5/12/2020 6:37	0:00:41	-48.31	134.40	438.94	-47.31	137.76	438.56	-143.81	0.19
37	5/12/2020 6:39	5/12/2020 6:45	0:06:00	-43.03	148.42	436.88	-28.28	169.13	431.22	-143.37	0.63
38	5/12/2020 7:23	5/12/2020 7:28	0:05:40	48.95	-59.89	429.55	38.12	-34.79	427.01	-142.82	1.18
39	5/12/2020 7:29	5/12/2020 7:32	0:03:00	35.24	-30.73	426.39	27.23	-21.61	424.91	-142.40	1.60
40	5/12/2020 8:07	5/12/2020 8:08	0:01:20	-51.21	95.30	439.98	-50.11	102.88	439.56	-143.18	0.82
41	5/12/2020 8:09	5/12/2020 8:10	0:00:41	-48.27	110.89	438.85	-47.27	114.24	438.46	-143.81	0.19
42	5/12/2020 8:13	5/12/2020 8:19	0:06:00	-42.64	125.59	436.63	-27.76	146.04	430.93	-143.36	0.64
43	5/12/2020 8:56	5/12/2020 9:01	0:05:40	48.92	-83.39	429.62	38.06	-58.33	427.08	-142.84	1.16
44	5/12/2020 9:02	5/12/2020 9:05	0:03:00	34.76	-53.73	426.38	26.70	-44.71	424.92	-142.39	1.61
45	5/12/2020 9:40	5/12/2020 9:41	0:01:20	-51.19	71.80	440.00	-50.09	79.38	439.57	-143.18	0.82
46	5/12/2020 9:43	5/12/2020 9:43	0:00:39	-48.00	88.23	438.75	-46.97	91.54	438.34	-143.82	0.18
47	5/12/2020 9:46	5/12/2020 9:52	0:06:20	-42.60	102.05	436.60	-26.77	123.40	430.52	-143.36	0.64
48	5/12/2020 10:29	5/12/2020 10:34	0:05:49	48.89	-106.90	429.60	37.60	-81.28	427.00	-142.83	1.17
49	5/12/2020 10:35	5/12/2020 10:39	0:03:11	34.70	-77.28	426.39	26.17	-67.82	424.87	-142.39	1.61
50	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	-143.17	0.83
51	5/12/2020 11:16	5/12/2020 11:16	0:00:39	-47.97	64.71	438.83	-46.93	68.02	438.42	-143.82	0.18
52	5/12/2020 11:19	5/12/2020 11:25	0:06:20	-42.20	79.20	436.51	-26.24	100.29	430.33	-143.36	0.64
53	5/12/2020 12:02	5/12/2020 12:08	0:05:51	48.64	-129.53	429.38	37.14	-104.23	426.80	-142.83	1.17
54	5/12/2020 12:09	5/12/2020 12:12	0:03:09	34.21	-100.29	426.20	25.64	-90.93	424.74	-142.39	1.61
55	5/12/2020 12:46	5/12/2020 12:47	0:01:20	-51.05	25.78	440.05	-49.87	33.29	439.58	-143.16	0.84
56	5/12/2020 12:49	5/12/2020 12:50	0:00:41	-47.68	42.04	438.71	-46.62	45.31	438.28	-143.83	0.17
57	5/12/2020 12:52	5/12/2020 12:59	0:06:41	-42.15	55.67	436.48	-25.24	77.63	429.95	-143.35	0.65
58	5/12/2020 13:35	5/12/2020 13:41	0:06:00	48.61	-153.04	429.41	36.67	-127.19	426.74	-142.83	1.17
59	5/12/2020 13:42	5/12/2020 13:45	0:03:11	33.72	-123.30	426.15	25.10	-114.04	424.72	-142.39	1.61
60	5/12/2020 14:19	5/12/2020 14:20	0:01:20	-51.04	2.28	440.12	-49.84	9.79	439.64	-143.16	0.84

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^2/4kHz)	PFD Non- Compliance (dB)
61	5/12/2020 14:22	5/12/2020 14:23	0:00:41	-47.65	18.53	438.76	-46.58	21.79	438.33	-143.84	0.16
62	5/12/2020 14:25	5/12/2020 14:32	0:06:39	-41.74	32.81	436.37	-24.70	54.50	429.80	-143.35	0.65
63	5/12/2020 15:08	5/12/2020 15:14	0:06:11	48.58	-176.55	429.50	36.21	-150.17	426.74	-142.84	1.16
64	5/12/2020 15:15	5/12/2020 15:18	0:03:21	33.67	-146.86	426.24	24.56	-137.17	424.73	-142.38	1.62
65	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	-143.14	0.86
66	5/12/2020 15:55	5/12/2020 15:56	0:00:39	-47.36	-4.17	438.55	-46.26	-0.94	438.11	-143.84	0.16
67	5/12/2020 15:58	5/12/2020 16:05	0:06:59	-41.69	9.27	436.26	-23.69	31.81	429.37	-143.35	0.65
68	5/12/2020 16:41	5/12/2020 16:47	0:06:00	48.31	160.80	429.48	36.15	-173.72	426.78	-142.83	1.17
69	5/12/2020 16:48	5/12/2020 16:51	0:03:19	33.18	-169.88	426.19	24.02	-160.30	424.72	-142.39	1.61
70	5/12/2020 17:25	5/12/2020 17:26	0:01:31	-51.01	-44.72	439.92	-49.61	-36.32	439.35	-143.12	0.88
71	5/12/2020 17:28	5/12/2020 17:29	0:00:39	-47.32	-27.68	438.43	-46.22	-24.46	437.99	-143.85	0.15
72	5/12/2020 17:31	5/12/2020 17:38	0:07:01	-41.28	-13.60	435.98	-23.15	8.67	429.10	-143.34	0.66
73	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	-141.75	2.25
74	5/12/2020 18:14	5/12/2020 18:20	0:06:09	48.35	137.07	429.62	35.79	163.14	426.81	-142.84	1.16
75	5/12/2020 18:21	5/12/2020 18:24	0:03:20	32.80	166.95	426.22	23.61	176.45	424.75	-142.41	1.59
76	5/12/2020 18:58	5/12/2020 18:59	0:01:29	-50.91	-67.52	439.95	-49.44	-59.16	439.36	-143.13	0.87
77	5/12/2020 19:01	5/12/2020 19:02	0:00:41	-47.10	-50.60	438.42	-45.97	-47.41	437.96	-143.85	0.15
78	5/12/2020 19:04	5/12/2020 19:11	0:06:59	-40.97	-36.65	435.94	-22.73	-14.58	429.08	-143.34	0.66
79	5/12/2020 19:47	5/12/2020 19:53	0:06:11	48.08	114.40	429.51	35.32	140.15	426.68	-142.83	1.17
80	5/12/2020 19:54	5/12/2020 19:58	0:03:20	32.30	143.91	426.09	23.07	153.31	424.64	-142.43	1.57
81	5/12/2020 20:31	5/12/2020 20:32	0:01:29	-50.89	-91.02	439.88	-49.42	-82.68	439.29	-143.12	0.88
82	5/12/2020 20:34	5/12/2020 20:35	0:00:50	-47.06	-74.12	438.35	-45.64	-70.16	437.78	-143.85	0.15
83	5/12/2020 20:37	5/12/2020 20:45	0:07:11	-40.55	-59.54	435.72	-21.71	-37.31	428.70	-143.33	0.67
84	5/12/2020 21:20	5/12/2020 21:26	0:06:20	48.05	90.89	429.50	34.84	117.15	426.58	-142.83	1.17
85	5/12/2020 21:27	5/12/2020 21:31	0:03:30	32.25	120.35	426.08	22.53	130.17	424.58	-142.44	1.56
86	5/12/2020 22:04	5/12/2020 22:05	0:01:29	-50.87	-114.52	439.79	-49.39	-106.18	439.19	-143.13	0.87
87	5/12/2020 22:07	5/12/2020 22:08	0:00:39	-46.75	-96.83	438.13	-45.60	-93.68	437.67	-143.86	0.14
88	5/12/2020 22:10	5/12/2020 22:18	0:07:20	-40.50	-83.08	435.61	-21.16	-60.46	428.45	-143.32	0.68
89	5/12/2020 22:53	5/12/2020 22:59	0:06:20	47.77	68.22	429.51	34.36	94.14	426.56	-142.82	1.18
90	5/12/2020 23:00	5/12/2020 23:04	0:03:29	31.74	97.30	426.05	21.98	107.02	424.58	-142.45	1.55
91	5/12/2020 23:37	5/12/2020 23:39	0:01:31	-50.72	-137.07	439.70	-49.16	-128.80	439.07	-143.11	0.89
92	5/12/2020 23:40	5/12/2020 23:41	0:00:50	-46.71	-120.35	438.09	-45.25	-116.44	437.50	-143.86	0.14
93	5/12/2020 23:44	5/12/2020 23:51	0:07:20	-40.07	-105.99	435.42	-20.61	-83.62	428.28	-143.31	0.69
94	5/13/2020 0:26	5/13/2020 0:33	0:06:29	47.73	44.70	429.55	33.87	71.12	426.47	-142.82	1.18
95	5/13/2020 0:34	5/13/2020 0:37	0:03:31	31.24	74.25	425.97	21.44	83.87	424.50	-142.44	1.56
96	5/13/2020 1:10	5/13/2020 1:12	0:01:31	-50.70	-160.58	439.80	-49.13	-152.32	439.18	-143.10	0.90
97	5/13/2020 1:13	5/13/2020 1:14	0:00:41	-46.39	-143.08	438.10	-45.21	-139.97	437.63	-143.86	0.14
98	5/13/2020 1:17	5/13/2020 1:24	0:07:20	-39.64	-128.90	435.40	-20.06	-106.78	428.27	-143.32	0.68
99	5/13/2020 1:59	5/13/2020 2:06	0:06:30	47.44	22.00	429.42	33.39	48.09	426.27	-142.82	1.18
100	5/13/2020 2:07	5/13/2020 2:10	0:03:40	30.74	51.18	425.76	20.41	61.12	424.26	-142.44	1.56
101	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	-143.09	0.91
102	5/13/2020 2:47	5/13/2020 2:47	0:00:39	-46.07	-165.82	438.15	-44.86	-162.76	437.67	-143.87	0.13
103	5/13/2020 2:50	5/13/2020 2:57	0:07:40	-39.59	-152.45	435.58	-19.03	-129.55	428.15	-143.32	0.68
104	5/13/2020 3:32	5/13/2020 3:39	0:06:41	47.41	-1.53	429.22	32.90	25.06	425.96	-142.80	1.20
105	5/13/2020 3:40	5/13/2020 3:44	0:03:50	30.68	27.61	425.54	19.86	37.96	424.00	-142.42	1.58
106	5/13/2020 3:44	5/13/2020 3:44	0:00:00	17.90	39.58	423.83	17.90	39.58	423.83	-143.99	0.01
107	5/13/2020 4:16	5/13/2020 4:18	0:01:29	-50.52	153.35	439.84	-48.86	161.53	439.21	-143.11	0.89
108	5/13/2020 4:20	5/13/2020 4:20	0:00:50	-46.03	170.66	438.11	-44.50	174.46	437.51	-143.87	0.13
109	5/13/2020 4:23	5/13/2020 4:31	0:07:40	-39.16	-175.37	435.39	-18.48	-152.72	428.01	-143.32	0.68
110	5/13/2020 5:05	5/13/2020 5:12	0:06:50	47.38	-25.05	429.22	32.40	2.02	425.85	-142.80	1.20
111	5/13/2020 5:13	5/13/2020 5:17	0:03:50	30.17	4.55	425.43	19.31	14.79	423.91	-142.43	1.57
112	5/13/2020 5:17	5/13/2020 5:17	0:00:00	17.34	16.40	423.74	17.34	16.40	423.74	-143.99	0.01
113	5/13/2020 5:49	5/13/2020 5:51	0:01:29	-50.50	129.85	439.76	-48.83	138.02	439.12	-143.10	0.90
114	5/13/2020 5:53	5/13/2020 5:53	0:00:41	-45.70	147.91	437.91	-44.46	150.93	437.42	-143.87	0.13
115	5/13/2020 5:56	5/13/2020 6:04	0:07:40	-38.71	161.70	435.15	-17.92	-175.89	427.81	-143.31	0.69
116	5/13/2020 6:38	5/13/2020 6:45	0:06:39	47.08	-47.74	429.13	32.35	-21.54	425.83	-142.79	1.21
117	5/13/2020 6:46	5/13/2020 6:50	0:03:50	29.66	-18.52	425.33	18.75	-8.37	423.86	-142.45	1.55
118	5/13/2020 6:51	5/13/2020 6:51	0:00:11	16.78	-6.77	423.71	16.29	-6.38	423.67	-143.99	0.01
119	5/13/2020 7:22	5/13/2020 7:24	0:01:41	-50.49	106.35	439.67	-48.58	115.39	438.94	-143.12	0.88
120	5/13/2020 7:26	5/13/2020 7:27	0:00:50	-45.66	124.39	437.80	-44.09	128.14	437.18	-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^2/4kHz)	PFD Non- Compliance (dB)
121	5/13/2020 7:29	5/13/2020 7:37	0:07:51	-38.66	138.16	435.04	-17.36	160.94	427.56	-143.30	0.70
122	5/13/2020 8:11	5/13/2020 8:18	0:06:50	47.04	-71.25	429.19	31.84	-44.58	425.83	-142.79	1.21
123	5/13/2020 8:19	5/13/2020 8:23	0:03:50	29.14	-41.60	425.34	18.19	-31.54	423.92	-142.47	1.53
124	5/13/2020 8:24	5/13/2020 8:24	0:00:09	16.22	-29.95	423.77	15.72	-29.56	423.74	-143.99	0.01
125	5/13/2020 8:55	5/13/2020 8:57	0:01:40	-50.46	82.85	439.66	-48.55	91.88	438.91	-143.11	0.89
126	5/13/2020 8:59	5/13/2020 9:00	0:00:50	-45.32	101.63	437.63	-43.72	105.33	437.00	-143.87	0.13
127	5/13/2020 9:02	5/13/2020 9:10	0:07:59	-38.21	115.22	434.81	-16.31	138.16	427.19	-143.30	0.70
128	5/13/2020 9:45	5/13/2020 9:51	0:06:50	46.73	-93.96	429.14	31.34	-67.62	425.78	-142.79	1.21
129	5/13/2020 9:52	5/13/2020 9:56	0:04:01	29.08	-65.16	425.38	17.64	-54.71	423.94	-142.48	1.52
130	5/13/2020 9:57	5/13/2020 9:57	0:00:00	15.16	-52.75	423.78	15.16	-52.75	423.78	-143.99	0.01
131	5/13/2020 10:28	5/13/2020 10:30	0:01:39	-50.29	60.28	439.70	-48.28	69.22	438.90	-143.13	0.87
132	5/13/2020 10:32	5/13/2020 10:33	0:00:50	-45.28	78.10	437.70	-43.67	81.80	437.06	-143.87	0.13
133	5/13/2020 10:35	5/13/2020 10:43	0:08:01	-37.76	92.27	434.68	-15.75	114.97	426.99	-143.29	0.71
134	5/13/2020 11:18	5/13/2020 11:25	0:07:01	46.69	-117.47	429.01	30.83	-90.68	425.63	-142.78	1.22
135	5/13/2020 11:25	5/13/2020 11:29	0:03:59	28.56	-88.24	425.24	17.07	-77.88	423.88	-142.49	1.51
136	5/13/2020 11:30	5/13/2020 11:30	0:00:00	14.59	-75.93	423.74	14.59	-75.93	423.74	-143.99	0.01
137	5/13/2020 12:01	5/13/2020 12:03	0:01:40	-50.27	36.78	439.71	-48.25	45.71	438.91	-143.12	0.88
138	5/13/2020 12:05	5/13/2020 12:06	0:00:50	-44.92	55.34	437.57	-43.29	58.99	436.91	-143.86	0.14
139	5/13/2020 12:09	5/13/2020 12:17	0:07:59	-37.30	69.31	434.50	-15.18	91.79	426.80	-143.28	0.72
140	5/13/2020 12:51	5/13/2020 12:58	0:06:59	46.37	-140.19	428.89	30.32	-113.74	425.52	-142.78	1.22
141	5/13/2020 12:59	5/13/2020 13:03	0:04:10	28.03	-111.33	425.14	16.01	-100.67	423.83	-142.50	1.50
142	5/13/2020 13:03	5/13/2020 13:03	0:00:00	14.02	-99.12	423.74	14.02	-99.12	423.74	-143.99	0.01
143	5/13/2020 13:35	5/13/2020 13:36	0:01:31	-50.07	14.21	439.68	-48.22	22.20	438.94	-143.11	0.89
144	5/13/2020 13:38	5/13/2020 13:39	0:00:50	-44.56	32.56	437.47	-42.90	36.16	436.80	-143.87	0.13
145	5/13/2020 13:42	5/13/2020 13:50	0:08:19	-37.25	45.77	434.52	-14.12	68.98	426.53	-143.28	0.72
146	5/13/2020 14:24	5/13/2020 14:31	0:07:10	46.33	-163.71	429.02	29.80	-136.81	425.56	-142.78	1.22
147	5/13/2020 14:32	5/13/2020 14:36	0:04:10	27.51	-134.43	425.19	15.45	-123.86	423.91	-142.51	1.49
148	5/13/2020 14:37	5/13/2020 14:37	0:00:11	13.46	-122.32	423.82	12.96	-121.94	423.81	-143.99	0.01
149	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	-143.67	0.33
150	5/13/2020 15:06	5/13/2020 15:23	0:17:00	-51.45	-19.79	440.19	-14.52	45.05	429.49	-143.28	0.72
151	5/13/2020 15:59	5/13/2020 16:00	0:01:29	42.90	-179.34	481.20	39.66	-173.44	481.04	-143.79	0.21
152	5/13/2020 16:07	5/13/2020 16:08	0:01:19	22.25	-153.19	477.27	18.41	-149.94	476.12	-143.50	0.50
153	5/13/2020 16:41	5/13/2020 16:43	0:01:40	-49.92	-32.40	443.54	-47.76	-23.61	441.23	-143.18	0.82
154	5/13/2020 16:45	5/13/2020 16:46	0:00:50	-44.28	-14.18	438.50	-42.59	-10.61	437.40	-143.88	0.12
155	5/13/2020 16:48	5/13/2020 16:57	0:08:10	-36.46	-0.51	434.16	-13.61	21.98	429.38	-143.28	0.72
156	5/13/2020 17:41	5/13/2020 17:42	0:01:10	21.36	-176.17	479.04	17.98	-173.34	478.91	-143.55	0.45
157	5/13/2020 19:07	5/13/2020 19:08	0:00:59	41.78	135.15	486.33	39.57	139.01	485.99	-143.86	0.14
158	5/13/2020 19:15	5/13/2020 19:16	0:00:59	20.70	160.46	483.52	17.81	162.86	483.31	-143.64	0.36
159	5/13/2020 20:41	5/13/2020 20:42	0:01:00	41.71	111.39	486.29	39.49	115.24	485.95	-143.87	0.13
160	5/13/2020 20:50	5/13/2020 20:51	0:01:01	20.12	137.05	483.45	17.21	139.43	483.26	-143.66	0.34
161	5/13/2020 22:16	5/13/2020 22:17	0:00:59	41.26	88.29	486.27	39.02	92.08	485.93	-143.85	0.15
162	5/13/2020 22:24	5/13/2020 22:25	0:01:01	19.52	113.63	483.46	16.61	116.00	483.27	-143.67	0.33
163	5/13/2020 23:50	5/13/2020 23:51	0:00:59	40.81	65.17	486.24	38.54	68.91	485.89	-143.85	0.15
164	5/13/2020 23:58	5/13/2020 23:59	0:00:59	18.45	90.61	483.38	15.52	92.95	483.22	-143.69	0.31
165	5/14/2020 1:24	5/14/2020 1:25	0:00:59	40.73	41.40	486.17	38.46	45.13	485.81	-143.86	0.14
166	5/14/2020 1:33	5/14/2020 1:34	0:01:01	17.86	67.18	483.23	14.93	69.50	483.08	-143.70	0.30
167	5/14/2020 2:58	5/14/2020 2:59	0:00:59	40.28	18.26	485.89	37.98	21.94	485.52	-143.85	0.15
168	5/14/2020 3:07	5/14/2020 3:08	0:01:01	17.26	43.74	483.00	14.33	46.05	482.86	-143.69	0.31
169	5/14/2020 4:33	5/14/2020 4:34	0:01:10	40.20	-5.51	485.85	37.49	-1.25	485.41	-143.84	0.16
170	5/14/2020 4:41	5/14/2020 4:42	0:01:00	16.67	20.31	482.90	13.73	22.60	482.78	-143.68	0.32
171	5/14/2020 6:07	5/14/2020 6:08	0:01:10	39.74	-28.64	485.76	37.00	-24.45	485.32	-143.84	0.16
172	5/14/2020 6:16	5/14/2020 6:17	0:00:59	16.07	-3.13	482.87	13.12	-0.85	482.76	-143.69	0.31
173	5/14/2020 7:41	5/14/2020 7:42	0:01:10	39.66	-52.41	485.80	36.91	-48.23	485.37	-143.84	0.16
174	5/14/2020 7:50	5/14/2020 7:51	0:00:50	14.98	-26.18	482.91	12.51	-24.30	482.84	-143.71	0.29
175	5/14/2020 9:15	5/14/2020 9:17	0:01:10	39.19	-75.56	485.77	36.41	-71.44	485.34	-143.83	0.17
176	5/14/2020 9:25	5/14/2020 9:26	0:01:00	14.38	-49.62	482.97	11.41	-47.38	482.91	-143.71	0.29
177	5/14/2020 10:50	5/14/2020 10:51	0:01:11	38.71	-98.72	485.62	35.91	-94.66	485.19	-143.82	0.18
178	5/14/2020 10:59	5/14/2020 11:00	0:00:59	13.77	-73.07	482.95	10.80	-70.84	482.91	-143.71	0.29
179	5/14/2020 12:24	5/14/2020 12:25	0:01:20	38.62	-122.49	485.55	35.40	-117.88	485.06	-143.81	0.19
180	5/14/2020 12:33	5/14/2020 12:34	0:00:59	13.16	-96.52	482.95	10.19	-94.30	482.93	-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^2/4kHz)	PFD Non- Compliance (dB)
181	5/14/2020 13:58	5/14/2020 14:00	0:01:20	38.14	-145.67	485.62	34.89	-141.13	485.13	-143.82	0.18
182	5/14/2020 14:08	5/14/2020 14:09	0:00:50	12.06	-119.60	483.04	9.58	-117.76	483.05	-143.75	0.25
183	5/14/2020 15:33	5/14/2020 15:34	0:01:10	37.66	-168.86	485.59	34.80	-164.92	485.16	-143.82	0.18
184	5/14/2020 15:42	5/14/2020 15:43	0:00:59	11.46	-143.06	483.09	8.48	-140.87	483.12	-143.75	0.25
185	5/14/2020 17:07	5/14/2020 17:08	0:01:20	37.57	167.36	485.58	34.28	171.83	485.10	-143.82	0.18
186	5/14/2020 17:16	5/14/2020 17:17	0:01:00	10.85	-166.52	483.12	7.87	-164.34	483.16	-143.75	0.25
187	5/14/2020 18:41	5/14/2020 18:42	0:01:21	37.08	144.16	485.49	33.76	148.58	485.00	-143.82	0.18
188	5/14/2020 18:51	5/14/2020 18:52	0:00:50	9.75	170.39	483.10	7.25	172.20	483.16	-143.77	0.23
189	5/14/2020 20:15	5/14/2020 20:17	0:01:20	36.59	120.96	485.38	33.24	125.31	484.89	-143.82	0.18
190	5/14/2020 20:25	5/14/2020 20:26	0:00:59	9.14	146.92	483.09	6.14	149.09	483.18	-143.75	0.25
191	5/14/2020 21:50	5/14/2020 21:51	0:01:20	36.08	97.74	485.35	32.71	102.04	484.87	-143.81	0.19
192	5/14/2020 22:00	5/14/2020 22:01	0:01:00	8.52	123.46	483.15	5.52	125.62	483.26	-143.76	0.24
193	5/14/2020 23:24	5/14/2020 23:25	0:01:29	35.99	73.96	485.37	32.17	78.76	484.82	-143.81	0.19
194	5/14/2020 23:34	5/14/2020 23:35	0:00:50	7.41	100.35	483.17	4.90	102.14	483.28	-143.75	0.25
195	5/15/2020 0:58	5/15/2020 1:00	0:01:29	35.48	50.73	485.23	31.64	55.46	484.67	-143.80	0.20
196	5/15/2020 1:08	5/15/2020 1:09	0:00:59	6.79	76.88	483.08	3.79	79.02	483.23	-143.77	0.23
197	5/15/2020 2:33	5/15/2020 2:34	0:01:31	34.97	27.48	484.94	31.10	32.16	484.38	-143.79	0.21
198	5/15/2020 2:43	5/15/2020 2:44	0:00:50	5.68	53.77	482.94	3.17	55.54	483.09	-143.78	0.22
199	5/15/2020 4:07	5/15/2020 4:08	0:01:31	34.46	4.23	484.81	30.56	8.85	484.25	-143.79	0.21
200	5/15/2020 4:17	5/15/2020 4:18	0:01:00	5.07	30.29	482.90	2.06	32.42	483.10	-143.78	0.22
201	5/15/2020 5:41	5/15/2020 5:43	0:01:29	33.94	-19.02	484.72	30.01	-14.46	484.17	-143.78	0.22
202	5/15/2020 5:52	5/15/2020 5:53	0:00:50	3.95	7.18	482.96	1.44	8.95	483.15	-143.79	0.21
203	5/15/2020 7:16	5/15/2020 7:17	0:01:29	33.41	-42.27	484.71	29.46	-37.77	484.16	-143.78	0.22
204	5/15/2020 7:26	5/15/2020 7:27	0:00:50	3.33	-16.30	483.09	0.82	-14.53	483.29	-143.80	0.20
205	5/15/2020 8:50	5/15/2020 8:51	0:01:39	33.31	-66.06	484.75	28.90	-61.10	484.15	-143.78	0.22
206	5/15/2020 9:01	5/15/2020 9:01	0:00:50	2.21	-39.42	483.28	-0.30	-37.65	483.51	-143.81	0.19
207	5/15/2020 10:24	5/15/2020 10:26	0:01:40	32.78	-89.33	484.63	28.35	-84.43	484.05	-143.78	0.22
208	5/15/2020 10:35	5/15/2020 10:36	0:00:50	1.59	-62.89	483.35	-0.92	-61.12	483.61	-143.82	0.18
209	5/15/2020 11:58	5/15/2020 12:00	0:01:40	32.24	-112.61	484.50	27.78	-107.76	483.94	-143.78	0.22
210	5/15/2020 12:09	5/15/2020 12:10	0:00:50	0.47	-86.01	483.50	-2.04	-84.24	483.78	-143.82	0.18
211	5/15/2020 13:33	5/15/2020 13:34	0:01:40	31.71	-135.90	484.57	27.22	-131.11	484.01	-143.79	0.21
212	5/15/2020 13:44	5/15/2020 13:45	0:00:50	-0.15	-109.49	483.66	-2.66	-107.72	483.96	-143.83	0.17
213	5/15/2020 15:07	5/15/2020 15:09	0:01:51	31.17	-159.20	484.54	26.20	-154.02	483.95	-143.79	0.21
214	5/15/2020 15:18	5/15/2020 15:19	0:00:50	-1.26	-132.61	483.82	-3.77	-130.84	484.14	-143.84	0.16
215	5/15/2020 16:41	5/15/2020 16:43	0:01:50	30.63	177.50	484.49	25.63	-177.38	483.91	-143.79	0.21
216	5/15/2020 16:53	5/15/2020 16:53	0:00:41	-2.38	-155.74	483.99	-4.39	-154.32	484.26	-143.83	0.17
217	5/15/2020 18:16	5/15/2020 18:18	0:01:49	30.08	154.19	484.40	25.06	159.26	483.83	-143.79	0.21
218	5/15/2020 18:27	5/15/2020 18:28	0:00:50	-3.00	-179.21	484.05	-5.51	-177.43	484.41	-143.85	0.15
219	5/15/2020 19:50	5/15/2020 19:52	0:01:49	29.53	130.87	484.30	24.48	135.88	483.74	-143.78	0.22
220	5/15/2020 20:02	5/15/2020 20:02	0:00:41	-4.12	157.67	484.18	-6.12	159.10	484.48	-143.84	0.16
221	5/15/2020 21:24	5/15/2020 21:26	0:01:51	28.97	107.55	484.27	23.90	112.51	483.73	-143.78	0.22
222	5/15/2020 21:36	5/15/2020 21:37	0:00:50	-4.74	134.20	484.31	-7.24	135.99	484.70	-143.84	0.16
223	5/15/2020 22:59	5/15/2020 23:01	0:02:00	28.41	84.22	484.23	22.84	89.55	483.65	-143.78	0.22
224	5/15/2020 23:10	5/15/2020 23:11	0:00:39	-5.86	111.09	484.47	-7.86	112.52	484.80	-143.85	0.15
225	5/16/2020 0:04	5/16/2020 0:04	0:00:00	25.11	-65.53	477.74	25.11	-65.53	477.74	-143.86	0.14
226	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	-143.93	0.07
227	5/16/2020 0:33	5/16/2020 0:35	0:02:10	27.85	60.88	483.10	21.78	66.57	482.31	-143.76	0.24
228	5/16/2020 0:45	5/16/2020 0:46	0:00:50	-6.49	87.63	482.56	-8.99	89.43	482.93	-143.81	0.19
229	5/16/2020 2:07	5/16/2020 2:10	0:02:10	27.22	37.61	482.80	21.12	43.24	482.03	-143.75	0.25
230	5/16/2020 2:19	5/16/2020 2:20	0:00:50	-7.18	64.22	482.50	-9.68	66.03	482.90	-143.82	0.18
231	5/16/2020 3:42	5/16/2020 3:44	0:02:10	26.59	14.33	482.64	20.46	19.90	481.89	-143.74	0.26
232	5/16/2020 3:54	5/16/2020 3:54	0:00:50	-8.37	41.17	482.60	-10.86	42.99	483.03	-143.83	0.17
233	5/16/2020 5:16	5/16/2020 5:18	0:02:10	25.95	-8.95	482.55	19.79	-3.44	481.82	-143.74	0.26
234	5/16/2020 5:28	5/16/2020 5:29	0:00:50	-9.06	17.77	482.71	-11.55	19.60	483.14	-143.83	0.17
235	5/16/2020 6:50	5/16/2020 6:53	0:02:11	25.30	-32.23	482.53	19.12	-26.78	481.84	-143.74	0.26
236	5/16/2020 7:02	5/16/2020 7:03	0:00:50	-10.25	-5.26	482.99	-12.73	-3.41	483.45	-143.85	0.15
237	5/16/2020 8:25	5/16/2020 8:27	0:02:19	24.65	-55.52	482.52	17.97	-49.73	481.82	-143.74	0.26
238	5/16/2020 8:37	5/16/2020 8:38	0:00:50	-10.94	-28.65	483.24	-13.42	-26.80	483.72	-143.85	0.15
239	5/16/2020 9:59	5/16/2020 10:01	0:02:19	24.00	-78.83	482.43	17.29	-73.09	481.77	-143.74	0.26
240	5/16/2020 10:11	5/16/2020 10:12	0:00:39	-12.13	-51.67	483.52	-14.10	-50.18	483.91	-143.86	0.14

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 ² /4kHz)	PFD Non- Compliance (dB)
241	5/16/2020 11:33	5/16/2020 11:36	0:02:21	23.34	-102.13	482.32	16.61	-96.45	481.72	-143.73	0.27
242	5/16/2020 11:46	5/16/2020 11:46	0:00:50	-12.82	-75.06	483.71	-15.28	-73.17	484.23	-143.87	0.13
243	5/16/2020 13:08	5/16/2020 13:10	0:02:21	22.68	-125.45	482.38	15.93	-119.82	481.80	-143.73	0.27
244	5/16/2020 13:20	5/16/2020 13:21	0:00:41	-13.99	-98.07	484.05	-15.95	-96.54	484.47	-143.87	0.13
245	5/16/2020 14:42	5/16/2020 14:44	0:02:21	22.03	-148.77	482.37	15.26	-143.19	481.82	-143.74	0.26
246	5/16/2020 14:54	5/16/2020 14:55	0:00:39	-14.67	-121.45	484.21	-16.63	-119.91	484.64	-143.88	0.12
247	5/16/2020 16:17	5/16/2020 16:19	0:02:21	20.89	-171.69	482.28	14.08	-166.19	481.79	-143.73	0.27
248	5/16/2020 16:29	5/16/2020 16:30	0:00:41	-15.84	-144.44	484.49	-17.79	-142.89	484.93	-143.89	0.11
249	5/16/2020 17:51	5/16/2020 17:53	0:02:21	20.22	164.98	482.20	13.40	170.43	481.75	-143.73	0.27
250	5/16/2020 18:03	5/16/2020 18:04	0:00:41	-16.52	-167.81	484.64	-18.46	-166.24	485.09	-143.89	0.11
251	5/16/2020 19:25	5/16/2020 19:28	0:02:21	19.56	141.64	482.11	12.71	147.05	481.70	-143.73	0.27
252	5/16/2020 19:38	5/16/2020 19:38	0:00:29	-17.68	169.22	484.87	-19.14	170.41	485.21	-143.90	0.10
253	5/16/2020 21:00	5/16/2020 21:02	0:02:30	18.88	118.29	482.10	11.53	124.04	481.71	-143.73	0.27
254	5/16/2020 21:12	5/16/2020 21:13	0:00:41	-18.36	145.87	485.06	-20.29	147.47	485.52	-143.90	0.10
255	5/16/2020 22:34	5/16/2020 22:36	0:02:21	17.72	95.33	482.03	10.83	100.64	481.71	-143.73	0.27
256	5/16/2020 22:47	5/16/2020 22:47	0:00:30	-19.51	122.92	485.33	-20.95	124.14	485.69	-143.90	0.10
257	5/17/2020 0:08	5/17/2020 0:11	0:02:21	17.04	71.97	481.89	10.14	77.25	481.60	-143.73	0.27
258	5/17/2020 0:21	5/17/2020 0:21	0:00:29	-20.18	99.57	485.44	-21.62	100.80	485.81	-143.91	0.09
259	5/17/2020 1:43	5/17/2020 1:45	0:02:30	16.37	48.61	481.65	8.95	54.21	481.41	-143.72	0.28
260	5/17/2020 1:55	5/17/2020 1:56	0:00:30	-21.33	76.65	485.62	-22.75	77.90	486.00	-143.91	0.09
261	5/17/2020 3:17	5/17/2020 3:20	0:02:21	15.20	25.62	481.50	8.26	30.81	481.33	-143.72	0.28
262	5/17/2020 3:30	5/17/2020 3:30	0:00:30	-21.99	53.32	485.70	-23.41	54.58	486.09	-143.91	0.09
263	5/17/2020 4:52	5/17/2020 4:54	0:02:30	14.52	2.25	481.45	7.07	7.77	481.33	-143.73	0.27
264	5/17/2020 5:04	5/17/2020 5:05	0:00:29	-22.65	30.00	485.86	-24.06	31.28	486.25	-143.91	0.09
265	5/17/2020 6:26	5/17/2020 6:28	0:02:30	13.83	-21.13	481.49	6.37	-15.63	481.42	-143.72	0.28
266	5/17/2020 6:39	5/17/2020 6:39	0:00:30	-23.78	7.11	486.23	-25.18	8.42	486.62	-143.92	0.08
267	5/17/2020 8:00	5/17/2020 8:03	0:02:21	12.65	-44.13	481.55	5.67	-39.04	481.55	-143.72	0.28
268	5/17/2020 8:13	5/17/2020 8:13	0:00:30	-24.43	-16.19	486.54	-25.83	-14.87	486.94	-143.92	0.08
269	5/17/2020 9:35	5/17/2020 9:37	0:02:19	11.96	-67.51	481.54	4.97	-62.44	481.60	-143.73	0.27
270	5/17/2020 9:47	5/17/2020 9:48	0:00:29	-25.08	-39.48	486.80	-26.47	-38.15	487.20	-143.92	0.08
271	5/17/2020 11:09	5/17/2020 11:12	0:02:21	10.76	-90.53	481.53	3.77	-85.49	481.68	-143.72	0.28
272	5/17/2020 11:22	5/17/2020 11:22	0:00:19	-26.20	-62.32	487.18	-27.12	-61.42	487.45	-143.93	0.07
273	5/17/2020 12:44	5/17/2020 12:46	0:02:21	10.07	-113.93	481.64	3.07	-108.90	481.84	-143.73	0.27
274	5/17/2020 12:56	5/17/2020 12:56	0:00:20	-26.84	-85.60	487.46	-27.75	-84.69	487.72	-143.93	0.07
275	5/17/2020 14:18	5/17/2020 14:20	0:02:19	9.38	-137.32	481.69	2.37	-132.31	481.93	-143.74	0.26
276	5/17/2020 14:30	5/17/2020 14:31	0:00:29	-27.47	-108.87	487.64	-28.83	-107.48	488.03	-143.93	0.07
277	5/17/2020 15:52	5/17/2020 15:55	0:02:21	8.19	-160.36	481.73	1.17	-155.37	482.04	-143.73	0.27
278	5/17/2020 16:05	5/17/2020 16:05	0:00:19	-28.56	-131.67	487.97	-29.46	-130.72	488.23	-143.93	0.07
279	5/17/2020 17:27	5/17/2020 17:29	0:02:21	7.49	176.24	481.73	0.47	-178.78	482.09	-143.74	0.26
280	5/17/2020 17:39	5/17/2020 17:40	0:00:20	-29.19	-154.92	488.15	-30.08	-153.96	488.42	-143.94	0.06
281	5/17/2020 19:01	5/17/2020 19:04	0:02:19	6.30	153.20	481.73	-0.73	158.16	482.16	-143.74	0.26
282	5/17/2020 19:14	5/17/2020 19:14	0:00:20	-29.81	-178.15	488.28	-30.70	-177.18	488.55	-143.94	0.06
283	5/17/2020 20:36	5/17/2020 20:38	0:02:21	5.60	129.79	481.80	-1.44	134.75	482.28	-143.74	0.26
284	5/17/2020 20:48	5/17/2020 20:48	0:00:21	-30.44	158.62	488.48	-31.32	159.61	488.74	-143.93	0.07
285	5/17/2020 22:10	5/17/2020 22:12	0:02:10	4.39	106.74	481.86	-2.14	111.34	482.36	-143.74	0.26
286	5/17/2020 22:22	5/17/2020 22:23	0:00:20	-31.06	135.41	488.67	-31.93	136.41	488.93	-143.92	0.08
287	5/17/2020 23:44	5/17/2020 23:47	0:02:19	3.69	83.33	481.80	-3.34	88.29	482.40	-143.75	0.25
288	5/17/2020 23:57	5/17/2020 23:57	0:00:19	-31.67	112.20	488.85	-32.54	113.21	489.12	-143.92	0.08
289	5/18/2020 1:19	5/18/2020 1:21	0:02:10	2.49	60.28	481.70	-4.04	64.87	482.33	-143.74	0.26
290	5/18/2020 1:31	5/18/2020 1:31	0:00:11	-32.71	89.51	489.09	-33.14	90.02	489.23	-143.92	0.08
291	5/18/2020 2:53	5/18/2020 2:55	0:02:10	1.79	36.87	481.65	-4.74	41.47	482.32	-143.75	0.25
292	5/18/2020 3:05	5/18/2020 3:06	0:00:11	-33.31	66.32	489.19	-33.74	66.85	489.32	-143.92	0.08
293	5/18/2020 4:28	5/18/2020 4:30	0:02:11	0.59	13.81	481.73	-5.94	18.42	482.47	-143.75	0.25
294	5/18/2020 4:40	5/18/2020 4:40	0:00:09	-33.91	43.16	489.35	-34.33	43.69	489.48	-143.93	0.07
295	5/18/2020 6:02	5/18/2020 6:04	0:02:10	-0.12	-9.60	481.86	-6.64	-4.98	482.64	-143.75	0.25
296	5/18/2020 6:14	5/18/2020 6:14	0:00:09	-34.50	20.00	489.57	-34.92	20.54	489.70	-143.93	0.07
297	5/18/2020 7:37	5/18/2020 7:39	0:02:01	-1.32	-32.65	482.09	-7.34	-28.38	482.87	-143.76	0.24
298	5/18/2020 7:48	5/18/2020 7:49	0:00:10	-35.08	-3.15	489.88	-35.50	-2.60	490.01	-143.94	0.06
299	5/18/2020 9:11	5/18/2020 9:13	0:02:00	-2.03	-56.06	482.21	-8.04	-51.78	483.05	-143.76	0.24
300	5/18/2020 9:23	5/18/2020 9:23	0:00:11	-35.66	-26.28	490.16	-36.07	-25.72	490.29	-143.95	0.05

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^2/4kHz)	PFD Non- Compliance (dB)
301	5/18/2020 10:45	5/18/2020 10:47	0:01:49	-3.23	-79.11	482.39	-8.74	-75.18	483.21	-143.76	0.24
302	5/18/2020 10:57	5/18/2020 10:57	0:00:11	-36.24	-49.40	490.38	-36.65	-48.83	490.51	-143.96	0.04
303	5/18/2020 12:20	5/18/2020 12:22	0:01:50	-4.44	-102.16	482.65	-9.93	-98.21	483.53	-143.77	0.23
304	5/18/2020 12:31	5/18/2020 12:32	0:00:20	-36.40	-73.08	490.53	-37.21	-71.94	490.77	-143.95	0.05
305	5/18/2020 13:54	5/18/2020 13:56	0:01:49	-5.13	-125.57	482.78	-10.63	-121.60	483.68	-143.77	0.23
306	5/18/2020 14:06	5/18/2020 14:06	0:00:19	-36.96	-96.19	490.67	-37.76	-95.03	490.92	-143.95	0.05
307	5/18/2020 15:29	5/18/2020 15:30	0:01:40	-6.33	-148.62	482.99	-11.32	-144.99	483.84	-143.76	0.24
308	5/18/2020 15:40	5/18/2020 15:40	0:00:19	-37.52	-119.29	490.85	-38.31	-118.11	491.08	-143.94	0.06
309	5/18/2020 17:03	5/18/2020 17:05	0:01:40	-7.03	-172.02	483.09	-12.01	-168.38	483.97	-143.77	0.23
310	5/18/2020 17:14	5/18/2020 17:15	0:00:20	-38.08	-142.37	491.02	-38.86	-141.17	491.26	-143.94	0.06
311	5/18/2020 18:37	5/18/2020 18:39	0:01:49	-7.73	164.58	483.16	-13.20	168.61	484.17	-143.78	0.22
312	5/18/2020 18:49	5/18/2020 18:49	0:00:11	-38.62	-165.43	491.12	-39.01	-164.83	491.23	-143.93	0.07
313	5/18/2020 20:12	5/18/2020 20:14	0:01:40	-8.93	141.55	483.40	-13.89	145.24	484.35	-143.78	0.22
314	5/18/2020 20:23	5/18/2020 20:23	0:00:11	-39.17	171.52	491.28	-39.55	172.13	491.40	-143.93	0.07
315	5/18/2020 21:46	5/18/2020 21:48	0:01:40	-9.63	118.15	483.52	-14.58	121.87	484.49	-143.78	0.22
316	5/18/2020 21:57	5/18/2020 21:57	0:00:21	-39.32	147.86	491.33	-40.08	149.11	491.56	-143.93	0.07
317	5/18/2020 23:21	5/18/2020 23:22	0:01:31	-10.83	95.13	483.67	-15.27	98.50	484.59	-143.79	0.21
318	5/18/2020 23:31	5/18/2020 23:32	0:00:20	-39.85	124.83	491.54	-40.60	126.09	491.76	-143.93	0.07
319	5/19/2020 0:55	5/19/2020 0:57	0:01:31	-11.52	71.74	483.67	-15.95	75.13	484.62	-143.79	0.21
320	5/19/2020 1:06	5/19/2020 1:06	0:00:19	-40.38	101.80	491.66	-41.11	103.09	491.88	-143.91	0.09
321	5/19/2020 2:29	5/19/2020 2:31	0:01:29	-12.21	48.35	483.70	-16.64	51.76	484.68	-143.80	0.20
322	5/19/2020 2:40	5/19/2020 2:40	0:00:20	-40.52	78.15	491.62	-41.26	79.44	491.84	-143.91	0.09
323	5/19/2020 3:12	5/19/2020 3:12	0:00:00	-0.55	-152.77	475.45	-0.55	-152.77	475.45	-144.00	0.00
324	5/19/2020 4:04	5/19/2020 4:05	0:01:20	-13.40	25.35	483.92	-17.32	28.41	484.81	-143.81	0.19
325	5/19/2020 4:14	5/19/2020 4:15	0:00:19	-41.04	55.15	491.75	-41.76	56.47	491.96	-143.92	0.08
326	5/19/2020 4:47	5/19/2020 4:47	0:00:00	0.16	-176.17	475.34	0.16	-176.17	475.34	-143.97	0.03
327	5/19/2020 5:38	5/19/2020 5:40	0:01:21	-14.09	1.97	484.13	-18.00	5.06	485.03	-143.81	0.19
328	5/19/2020 5:49	5/19/2020 5:49	0:00:20	-41.55	32.17	491.92	-42.25	33.51	492.13	-143.91	0.09
329	5/19/2020 6:21	5/19/2020 6:21	0:00:09	0.87	160.42	475.21	1.37	160.78	475.17	-143.95	0.05
330	5/19/2020 7:13	5/19/2020 7:14	0:01:20	-14.78	-21.40	484.41	-18.68	-18.29	485.33	-143.81	0.19
331	5/19/2020 7:23	5/19/2020 7:23	0:00:19	-41.69	8.53	492.08	-42.39	9.88	492.29	-143.92	0.08
332	5/19/2020 7:55	5/19/2020 7:56	0:00:21	1.57	137.02	475.07	2.58	137.73	475.00	-143.95	0.05
333	5/19/2020 8:47	5/19/2020 8:48	0:01:11	-15.96	-44.38	484.76	-19.36	-41.63	485.59	-143.82	0.18
334	5/19/2020 8:57	5/19/2020 8:57	0:00:20	-42.19	-14.43	492.34	-42.88	-13.07	492.54	-143.91	0.09
335	5/19/2020 9:30	5/19/2020 9:30	0:00:09	2.78	113.96	474.89	3.28	114.32	474.86	-143.94	0.06
336	5/19/2020 10:21	5/19/2020 10:23	0:01:10	-16.65	-67.74	484.97	-20.04	-64.96	485.81	-143.82	0.18
337	5/19/2020 10:31	5/19/2020 10:32	0:00:30	-42.33	-38.06	492.41	-43.35	-35.99	492.71	-143.91	0.09
338	5/19/2020 11:04	5/19/2020 11:04	0:00:20	3.49	90.56	474.83	4.50	91.28	474.79	-143.94	0.06
339	5/19/2020 11:56	5/19/2020 11:57	0:01:09	-17.33	-91.09	485.23	-20.71	-88.30	486.09	-143.82	0.18
340	5/19/2020 12:06	5/19/2020 12:06	0:00:20	-42.81	-61.00	492.65	-43.48	-59.61	492.84	-143.91	0.09
341	5/19/2020 12:38	5/19/2020 12:39	0:00:21	4.19	67.16	474.77	5.20	67.87	474.74	-143.93	0.07
342	5/19/2020 13:30	5/19/2020 13:31	0:01:01	-18.50	-114.05	485.54	-21.38	-111.63	486.28	-143.82	0.18
343	5/19/2020 13:40	5/19/2020 13:40	0:00:30	-42.95	-84.63	492.65	-43.94	-82.52	492.93	-143.89	0.11
344	5/19/2020 14:13	5/19/2020 14:13	0:00:20	5.40	44.11	474.68	6.40	44.83	474.65	-143.93	0.07
345	5/19/2020 15:05	5/19/2020 15:06	0:01:01	-19.17	-137.40	485.72	-22.05	-134.95	486.47	-143.83	0.17
346	5/19/2020 15:14	5/19/2020 15:14	0:00:20	-43.42	-107.56	492.77	-44.07	-106.14	492.95	-143.88	0.12
347	5/19/2020 15:47	5/19/2020 15:48	0:00:29	6.10	20.71	474.63	7.61	21.79	474.61	-143.91	0.09
348	5/19/2020 16:39	5/19/2020 16:40	0:00:59	-19.85	-160.74	485.90	-22.71	-158.26	486.65	-143.85	0.15
349	5/19/2020 16:48	5/19/2020 16:49	0:00:30	-43.55	-131.18	492.82	-44.52	-129.03	493.09	-143.88	0.12
350	5/19/2020 17:22	5/19/2020 17:22	0:00:30	6.81	-2.69	474.60	8.31	-1.61	474.59	-143.89	0.11
351	5/19/2020 18:13	5/19/2020 18:14	0:00:59	-20.53	175.93	486.02	-23.38	178.43	486.79	-143.85	0.15
352	5/19/2020 18:23	5/19/2020 18:23	0:00:29	-44.02	-154.08	492.87	-44.97	-151.89	493.13	-143.86	0.14
353	5/19/2020 18:56	5/19/2020 18:57	0:00:41	7.52	-26.08	474.55	9.52	-24.63	474.58	-143.86	0.14
354	5/19/2020 19:48	5/19/2020 19:49	0:01:00	-21.20	152.61	486.22	-24.04	155.13	486.99	-143.86	0.14
355	5/19/2020 19:57	5/19/2020 19:57	0:00:30	-44.15	-177.69	492.90	-45.09	-175.49	493.16	-143.87	0.13
356	5/19/2020 20:30	5/19/2020 20:31	0:00:29	8.72	-49.11	474.54	10.22	-48.02	474.58	-143.84	0.16
357	5/19/2020 21:22	5/19/2020 21:23	0:00:50	-22.35	129.71	486.52	-24.70	131.84	487.17	-143.87	0.13
358	5/19/2020 21:31	5/19/2020 21:32	0:00:29	-44.60	159.43	493.03	-45.52	161.67	493.27	-143.87	0.13
359	5/19/2020 22:05	5/19/2020 22:05	0:00:30	9.43	-72.50	474.65	10.92	-71.40	474.70	-143.86	0.14
360	5/19/2020 22:56	5/19/2020 22:57	0:00:50	-23.01	106.39	486.68	-25.36	108.55	487.34	-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^2/4kHz)	PFD Non- Compliance (dB)
361	5/19/2020 23:05	5/19/2020 23:06	0:00:30	-44.72	135.83	493.15	-45.64	138.07	493.39	-143.87	0.13
362	5/19/2020 23:39	5/19/2020 23:40	0:00:41	10.12	-95.90	474.80	12.11	-94.42	474.88	-143.85	0.15
363	5/20/2020 0:31	5/20/2020 0:32	0:00:50	-23.68	83.09	486.77	-26.01	85.27	487.44	-143.87	0.13
364	5/20/2020 0:40	5/20/2020 0:40	0:00:29	-45.16	112.97	493.26	-46.05	115.25	493.50	-143.87	0.13
365	5/20/2020 1:13	5/20/2020 1:14	0:00:39	10.82	-119.29	474.90	12.81	-117.80	475.00	-143.85	0.15
366	5/20/2020 2:05	5/20/2020 2:06	0:00:50	-24.34	59.79	486.86	-26.66	62.00	487.53	-143.87	0.13
367	5/20/2020 2:14	5/20/2020 2:14	0:00:30	-45.28	89.37	493.21	-46.17	91.66	493.45	-143.85	0.15
368	5/20/2020 2:48	5/20/2020 2:48	0:00:39	11.52	-142.67	474.93	13.51	-141.18	475.04	-143.85	0.15
369	5/20/2020 3:39	5/20/2020 3:40	0:00:49	-25.00	36.50	487.01	-27.31	38.74	487.69	-143.88	0.12
370	5/20/2020 3:48	5/20/2020 3:49	0:00:39	-45.41	65.77	493.21	-46.56	68.86	493.52	-143.86	0.14
371	5/20/2020 4:22	5/20/2020 4:23	0:00:51	12.22	-166.05	474.93	14.70	-164.16	475.10	-143.85	0.15
372	5/20/2020 5:14	5/20/2020 5:14	0:00:39	-25.65	13.22	487.24	-27.50	15.02	487.78	-143.89	0.11
373	5/20/2020 5:22	5/20/2020 5:23	0:00:30	-45.83	42.95	493.33	-46.68	45.28	493.55	-143.83	0.17
374	5/20/2020 5:57	5/20/2020 5:57	0:00:39	13.42	170.96	474.95	15.39	172.48	475.11	-143.84	0.16
375	5/20/2020 6:48	5/20/2020 6:49	0:00:40	-26.31	-10.05	487.56	-28.14	-8.23	488.10	-143.90	0.10
376	5/20/2020 6:56	5/20/2020 6:57	0:00:30	-45.94	19.36	493.47	-46.79	21.70	493.69	-143.84	0.16
377	5/20/2020 7:31	5/20/2020 7:32	0:00:39	14.11	147.59	474.89	16.08	149.12	475.07	-143.82	0.18
378	5/20/2020 8:22	5/20/2020 8:23	0:00:41	-26.95	-33.32	487.86	-28.78	-31.47	488.40	-143.91	0.09
379	5/20/2020 8:31	5/20/2020 8:31	0:00:41	-46.06	-4.23	493.62	-47.17	-1.07	493.91	-143.80	0.20
380	5/20/2020 9:05	5/20/2020 9:06	0:00:41	14.81	124.22	474.82	16.77	125.76	475.01	-143.80	0.20
381	5/20/2020 9:57	5/20/2020 9:57	0:00:41	-27.60	-56.57	488.09	-29.41	-54.70	488.64	-143.92	0.08
382	5/20/2020 10:05	5/20/2020 10:05	0:00:30	-46.46	-27.03	493.75	-47.27	-24.64	493.96	-143.81	0.19
383	5/20/2020 10:40	5/20/2020 10:40	0:00:41	15.50	100.86	474.88	17.46	102.41	475.08	-143.80	0.20
384	5/20/2020 11:31	5/20/2020 11:32	0:00:30	-28.24	-79.83	488.39	-29.60	-78.41	488.80	-143.92	0.08
385	5/20/2020 11:39	5/20/2020 11:40	0:00:41	-46.57	-50.61	493.88	-47.63	-47.39	494.13	-143.83	0.17
386	5/20/2020 12:14	5/20/2020 12:15	0:00:40	16.19	77.50	474.92	18.15	79.06	475.14	-143.80	0.20
387	5/20/2020 13:05	5/20/2020 13:06	0:00:30	-28.88	-103.07	488.58	-30.22	-101.64	488.98	-143.93	0.07
388	5/20/2020 13:13	5/20/2020 13:14	0:00:41	-46.69	-74.20	493.86	-47.74	-70.96	494.11	-143.81	0.19
389	5/20/2020 13:48	5/20/2020 13:49	0:00:39	16.88	54.14	474.95	18.83	55.72	475.18	-143.79	0.21
390	5/20/2020 14:40	5/20/2020 14:40	0:00:29	-29.51	-126.31	488.76	-30.85	-124.85	489.17	-143.94	0.06
391	5/20/2020 14:48	5/20/2020 14:48	0:00:31	-47.07	-96.98	493.93	-47.84	-94.53	494.10	-143.80	0.20
392	5/20/2020 15:23	5/20/2020 15:23	0:00:39	17.57	30.79	475.00	19.51	32.38	475.25	-143.79	0.21
393	5/20/2020 16:14	5/20/2020 16:15	0:00:39	-29.69	-150.01	488.83	-31.47	-148.06	489.37	-143.94	0.06
394	5/20/2020 16:22	5/20/2020 16:22	0:00:41	-47.18	-120.55	493.96	-48.18	-117.26	494.19	-143.81	0.19
395	5/20/2020 16:57	5/20/2020 16:58	0:00:41	18.26	7.44	475.06	20.19	9.05	475.32	-143.79	0.21
396	5/20/2020 17:48	5/20/2020 17:49	0:00:29	-30.33	-173.23	488.96	-31.65	-171.75	489.37	-143.94	0.06
397	5/20/2020 17:56	5/20/2020 17:57	0:00:41	-47.29	-144.12	493.91	-48.28	-140.81	494.14	-143.78	0.22
398	5/20/2020 18:31	5/20/2020 18:32	0:00:41	18.94	-15.89	475.12	20.87	-14.27	475.40	-143.78	0.22
399	5/20/2020 19:23	5/20/2020 19:23	0:00:30	-30.95	163.56	489.16	-32.27	165.06	489.56	-143.95	0.05
400	5/20/2020 19:30	5/20/2020 19:31	0:00:39	-47.39	-167.68	493.92	-48.37	-164.36	494.14	-143.77	0.23
401	5/20/2020 20:06	5/20/2020 20:06	0:00:39	19.63	-39.22	475.21	21.55	-37.59	475.50	-143.78	0.22
402	5/20/2020 20:57	5/20/2020 20:57	0:00:20	-31.57	140.36	489.35	-32.45	141.37	489.61	-143.96	0.04
403	5/20/2020 21:04	5/20/2020 21:05	0:00:41	-47.75	169.58	494.01	-48.69	172.95	494.21	-143.78	0.22
404	5/20/2020 21:40	5/20/2020 21:41	0:00:39	20.31	-62.55	475.38	22.23	-60.90	475.69	-143.78	0.22
405	5/20/2020 22:31	5/20/2020 22:32	0:00:19	-32.19	117.17	489.55	-33.06	118.19	489.82	-143.97	0.03
406	5/20/2020 22:39	5/20/2020 22:39	0:00:39	-47.85	146.02	494.14	-48.78	149.40	494.34	-143.76	0.24
407	5/20/2020 23:14	5/20/2020 23:15	0:00:40	20.99	-85.88	475.57	22.89	-84.21	475.88	-143.80	0.20
408	5/21/2020 0:06	5/21/2020 0:06	0:00:20	-32.80	93.99	489.69	-33.66	95.03	489.96	-143.97	0.03
409	5/21/2020 0:13	5/21/2020 0:13	0:00:39	-47.96	122.46	494.18	-48.87	125.85	494.39	-143.75	0.25
410	5/21/2020 0:49	5/21/2020 0:49	0:00:41	21.66	-109.21	475.74	23.56	-107.52	476.06	-143.80	0.20
411	5/21/2020 1:40	5/21/2020 1:40	0:00:19	-32.98	70.30	489.65	-33.84	71.34	489.92	-143.98	0.02
412	5/21/2020 1:47	5/21/2020 1:48	0:00:49	-48.06	98.90	494.13	-49.17	103.18	494.37	-143.75	0.25
413	5/21/2020 2:23	5/21/2020 2:23	0:00:30	22.33	-132.52	475.85	23.76	-131.24	476.09	-143.81	0.19
414	5/21/2020 3:14	5/21/2020 3:14	0:00:20	-33.59	47.13	489.80	-34.44	48.19	490.07	-143.98	0.02
415	5/21/2020 3:21	5/21/2020 3:22	0:00:39	-48.39	76.19	494.17	-49.26	79.64	494.36	-143.76	0.24
416	5/21/2020 3:57	5/21/2020 3:58	0:00:30	23.01	-155.82	475.93	24.42	-154.53	476.18	-143.82	0.18
417	5/21/2020 4:48	5/21/2020 4:49	0:00:10	-34.19	23.98	490.01	-34.61	24.52	490.15	-143.99	0.01
418	5/21/2020 4:55	5/21/2020 4:56	0:00:39	-48.49	52.64	494.19	-49.34	56.11	494.36	-143.75	0.25
419	5/21/2020 5:31	5/21/2020 5:32	0:00:41	23.21	-179.54	475.93	25.09	-177.81	476.28	-143.81	0.19
420	5/21/2020 6:23	5/21/2020 6:23	0:00:09	-34.36	0.30	490.18	-34.79	0.84	490.32	-144.00	0.00

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^2/4kHz)	PFD Non- Compliance (dB)
421	5/21/2020 6:30	5/21/2020 6:30	0:00:41	-48.58	29.09	494.30	-49.43	32.57	494.47	-143.73	0.27
422	5/21/2020 7:06	5/21/2020 7:06	0:00:39	23.88	157.16	475.94	25.75	158.92	476.29	-143.81	0.19
423	5/21/2020 8:04	5/21/2020 8:05	0:00:50	-48.67	5.54	494.45	-49.70	9.93	494.65	-143.71	0.29
424	5/21/2020 8:40	5/21/2020 8:41	0:00:39	24.54	133.87	475.90	26.40	135.65	476.27	-143.82	0.18
425	5/21/2020 9:38	5/21/2020 9:39	0:00:50	-48.77	-18.00	494.49	-49.77	-13.60	494.68	-143.72	0.28
426	5/21/2020 10:14	5/21/2020 10:15	0:00:29	25.21	110.60	476.04	26.60	111.94	476.33	-143.82	0.18
427	5/21/2020 11:12	5/21/2020 11:13	0:00:41	-49.07	-40.67	494.64	-49.85	-37.13	494.78	-143.73	0.27
428	5/21/2020 11:49	5/21/2020 11:49	0:00:30	25.86	87.32	476.15	27.25	88.68	476.44	-143.84	0.16
429	5/21/2020 12:46	5/21/2020 12:47	0:00:41	-49.15	-64.22	494.61	-49.92	-60.66	494.74	-143.71	0.29
430	5/21/2020 13:23	5/21/2020 13:24	0:00:31	26.52	64.05	476.25	27.90	65.42	476.55	-143.85	0.15
431	5/21/2020 14:21	5/21/2020 14:21	0:00:39	-49.24	-87.76	494.59	-49.99	-84.19	494.71	-143.70	0.30
432	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	-143.86	0.14
433	5/21/2020 15:55	5/21/2020 15:56	0:00:50	-49.32	-111.30	494.62	-50.23	-106.80	494.75	-143.70	0.30
434	5/21/2020 16:32	5/21/2020 16:32	0:00:31	27.36	17.08	476.38	28.73	18.48	476.68	-143.87	0.13
435	5/21/2020 17:29	5/21/2020 17:30	0:00:50	-49.41	-134.83	494.56	-50.30	-130.32	494.69	-143.69	0.31
436	5/21/2020 18:06	5/21/2020 18:06	0:00:30	28.01	-6.16	476.51	29.38	-4.75	476.83	-143.88	0.12
437	5/21/2020 19:03	5/21/2020 19:04	0:00:39	-49.68	-157.46	494.58	-50.37	-153.83	494.67	-143.69	0.31
438	5/21/2020 19:40	5/21/2020 19:41	0:00:20	28.66	-29.40	476.66	29.57	-28.45	476.87	-143.89	0.11
439	5/21/2020 20:37	5/21/2020 20:38	0:00:39	-49.76	179.01	494.59	-50.43	-177.34	494.68	-143.69	0.31
440	5/21/2020 21:14	5/21/2020 21:15	0:00:30	28.85	-53.10	476.77	30.20	-51.66	477.10	-143.91	0.09
441	5/21/2020 22:12	5/21/2020 22:12	0:00:41	-49.83	155.49	494.72	-50.49	159.14	494.81	-143.67	0.33
442	5/21/2020 22:49	5/21/2020 22:49	0:00:29	29.49	-76.34	476.97	30.83	-74.88	477.29	-143.92	0.08
443	5/21/2020 23:46	5/21/2020 23:46	0:00:41	-49.91	131.96	494.78	-50.55	135.63	494.88	-143.66	0.34
444	5/22/2020 0:23	5/22/2020 0:23	0:00:21	30.12	-99.56	477.15	31.01	-98.58	477.37	-143.94	0.06
445	5/22/2020 1:20	5/22/2020 1:21	0:00:50	-49.98	108.44	494.72	-50.75	113.05	494.82	-143.66	0.34
446	5/22/2020 1:57	5/22/2020 1:58	0:00:20	30.76	-122.77	477.31	31.64	-121.77	477.53	-143.95	0.05
447	5/22/2020 2:54	5/22/2020 2:55	0:00:50	-50.06	84.92	494.70	-50.81	89.55	494.79	-143.66	0.34
448	5/22/2020 3:32	5/22/2020 3:32	0:00:21	30.94	-146.46	477.32	31.83	-145.46	477.54	-143.96	0.04
449	5/22/2020 4:28	5/22/2020 4:29	0:00:49	-50.13	61.40	494.69	-50.87	66.04	494.78	-143.65	0.35
450	5/22/2020 5:06	5/22/2020 5:06	0:00:20	31.57	-169.65	477.46	32.45	-168.63	477.69	-143.97	0.03
451	5/22/2020 6:02	5/22/2020 6:03	0:00:50	-50.20	37.89	494.79	-50.92	42.54	494.86	-143.65	0.35
452	5/22/2020 6:40	5/22/2020 6:40	0:00:21	31.76	166.66	477.40	32.63	167.68	477.62	-143.98	0.02
453	5/22/2020 7:37	5/22/2020 7:37	0:00:39	-50.42	15.29	494.95	-50.97	19.03	495.00	-143.66	0.34
454	5/22/2020 8:15	5/22/2020 8:15	0:00:09	32.81	144.00	477.49	33.24	144.52	477.60	-143.99	0.01
455	5/22/2020 9:11	5/22/2020 9:12	0:00:41	-50.49	-8.22	494.97	-51.02	-4.46	495.01	-143.66	0.34
456	5/22/2020 10:45	5/22/2020 10:46	0:00:41	-50.55	-31.73	495.07	-51.06	-27.97	495.11	-143.66	0.34
457	5/22/2020 12:19	5/22/2020 12:20	0:00:41	-50.61	-55.24	495.03	-51.11	-51.47	495.05	-143.66	0.34
458	5/22/2020 13:53	5/22/2020 13:54	0:00:39	-50.67	-78.76	494.98	-51.16	-74.98	494.99	-143.65	0.35
459	5/22/2020 15:28	5/22/2020 15:28	0:00:39	-50.73	-102.26	495.00	-51.20	-98.48	495.01	-143.65	0.35
460	5/22/2020 17:02	5/22/2020 17:03	0:00:50	-50.78	-125.76	494.93	-51.34	-121.01	494.93	-143.64	0.36
461	5/22/2020 18:36	5/22/2020 18:37	0:00:50	-50.84	-149.26	494.90	-51.38	-144.50	494.89	-143.62	0.38
462	5/22/2020 20:10	5/22/2020 20:11	0:00:50	-50.89	-172.76	494.90	-51.41	-167.98	494.88	-143.60	0.40
463	5/22/2020 21:44	5/22/2020 21:45	0:00:50	-50.94	163.74	495.03	-51.44	168.53	495.01	-143.61	0.39
464	5/22/2020 23:18	5/22/2020 23:19	0:00:50	-51.00	140.24	495.11	-51.48	145.03	495.09	-143.62	0.38
465	5/23/2020 0:53	5/23/2020 0:53	0:00:49	-51.05	116.74	495.04	-51.51	121.54	495.02	-143.62	0.38
466	5/23/2020 2:27	5/23/2020 2:28	0:00:50	-51.10	93.25	495.01	-51.54	98.06	494.98	-143.62	0.38
467	5/23/2020 4:01	5/23/2020 4:02	0:00:50	-51.14	69.76	494.98	-51.57	74.58	494.94	-143.62	0.38
468	5/23/2020 5:35	5/23/2020 5:36	0:00:50	-51.19	46.26	495.06	-51.60	51.09	495.01	-143.61	0.39
469	5/23/2020 7:09	5/23/2020 7:10	0:00:50	-51.23	22.77	495.19	-51.62	27.60	495.13	-143.62	0.38
470	5/23/2020 8:43	5/23/2020 8:44	0:00:50	-51.27	-0.72	495.20	-51.65	4.13	495.13	-143.62	0.38
471	5/23/2020 10:18	5/23/2020 10:18	0:00:50	-51.31	-24.21	495.30	-51.66	-19.36	495.22	-143.62	0.38
472	5/23/2020 11:52	5/23/2020 11:53	0:00:50	-51.35	-47.71	495.24	-51.68	-42.85	495.15	-143.63	0.37
473	5/23/2020 13:26	5/23/2020 13:27	0:00:50	-51.39	-71.20	495.17	-51.70	-66.34	495.07	-143.63	0.37
474	5/23/2020 15:00	5/23/2020 15:01	0:00:50	-51.42	-94.69	495.18	-51.72	-89.82	495.07	-143.63	0.37
475	5/23/2020 16:34	5/23/2020 16:35	0:00:50	-51.46	-118.17	495.11	-51.74	-113.30	495.00	-143.62	0.38
476	5/23/2020 18:08	5/23/2020 18:09	0:00:50	-51.49	-141.65	495.06	-51.75	-136.77	494.94	-143.62	0.38
477	5/23/2020 19:43	5/23/2020 19:43	0:00:50	-51.52	-165.13	495.05	-51.76	-160.24	494.92	-143.62	0.38
478	5/23/2020 21:17	5/23/2020 21:18	0:00:50	-51.55	171.39	495.18	-51.77	176.28	495.05	-143.63	0.37
479	5/23/2020 22:51	5/23/2020 22:52	0:00:50	-51.58	147.91	495.27	-51.78	152.80	495.14	-143.64	0.36
480	5/24/2020 0:25	5/24/2020 0:26	0:00:50	-51.61	124.42	495.20	-51.79	129.32	495.06	-143.64	0.36

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^2/4kHz)	PFD Non- Compliance (dB)
481	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	-143.64	0.36
482	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	-143.64	0.36
483	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	-143.63	0.37
484	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	-143.64	0.36
485	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	-143.65	0.35
486	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	-143.67	0.33
487	5/24/2020 11:24	5/24/2020 11:25	0:00:40	-51.74	-39.91	495.30	-51.80	-35.98	495.15	-143.67	0.33
488	5/24/2020 12:58	5/24/2020 12:59	0:00:41	-51.76	-63.39	495.22	-51.80	-59.46	495.06	-143.67	0.33
489	5/24/2020 14:33	5/24/2020 14:33	0:00:41	-51.77	-86.87	495.22	-51.79	-82.94	495.05	-143.68	0.32
490	5/24/2020 16:07	5/24/2020 16:07	0:00:40	-51.78	-110.34	495.15	-51.79	-106.41	494.97	-143.69	0.31
491	5/24/2020 17:41	5/24/2020 17:42	0:00:39	-51.79	-133.80	495.08	-51.78	-129.87	494.90	-143.69	0.31
492	5/24/2020 19:15	5/24/2020 19:16	0:00:39	-51.79	-157.27	495.06	-51.77	-153.34	494.87	-143.68	0.32
493	5/24/2020 20:49	5/24/2020 20:50	0:00:41	-51.80	179.26	495.17	-51.76	-176.81	494.98	-143.68	0.32
494	5/24/2020 22:23	5/24/2020 22:24	0:00:41	-51.80	155.78	495.28	-51.75	159.71	495.09	-143.68	0.32
495	5/24/2020 23:58	5/24/2020 23:58	0:00:40	-51.80	132.31	495.20	-51.73	136.24	495.01	-143.68	0.32
496	5/25/2020 1:32	5/25/2020 1:32	0:00:39	-51.80	108.85	495.14	-51.72	112.77	494.94	-143.67	0.33
497	5/25/2020 3:06	5/25/2020 3:07	0:00:39	-51.80	85.38	495.08	-51.70	89.31	494.87	-143.67	0.33
498	5/25/2020 4:40	5/25/2020 4:41	0:00:41	-51.80	61.91	495.11	-51.68	65.84	494.90	-143.67	0.33
499	5/25/2020 6:14	5/25/2020 6:15	0:00:41	-51.79	38.44	495.23	-51.66	42.36	495.00	-143.67	0.33
500	5/25/2020 7:48	5/25/2020 7:49	0:00:41	-51.78	14.98	495.22	-51.64	18.90	494.99	-143.68	0.32
501	5/25/2020 9:23	5/25/2020 9:23	0:00:39	-51.77	-8.49	495.29	-51.61	-4.58	495.05	-143.68	0.32
502	5/25/2020 10:57	5/25/2020 10:57	0:00:39	-51.76	-31.97	495.21	-51.58	-28.06	494.96	-143.68	0.32
503	5/25/2020 12:31	5/25/2020 12:32	0:00:40	-51.75	-55.44	495.11	-51.56	-51.53	494.86	-143.69	0.31
504	5/25/2020 14:05	5/25/2020 14:06	0:00:31	-51.74	-78.91	495.10	-51.59	-75.98	494.91	-143.70	0.30
505	5/25/2020 15:39	5/25/2020 15:40	0:00:30	-51.72	-102.37	495.03	-51.57	-99.44	494.83	-143.70	0.30
506	5/25/2020 17:13	5/25/2020 17:14	0:00:39	-51.74	-126.81	495.00	-51.54	-122.91	494.74	-143.70	0.30
507	5/25/2020 18:47	5/25/2020 18:48	0:00:41	-51.72	-150.28	494.97	-51.50	-146.38	494.70	-143.69	0.31
508	5/25/2020 20:22	5/25/2020 20:22	0:00:41	-51.70	-173.74	495.08	-51.47	-169.85	494.81	-143.68	0.32
509	5/25/2020 21:56	5/25/2020 21:56	0:00:40	-51.68	162.79	495.19	-51.43	166.68	494.92	-143.67	0.33
510	5/25/2020 23:30	5/25/2020 23:31	0:00:39	-51.66	139.32	495.11	-51.40	143.21	494.84	-143.66	0.34
511	5/26/2020 1:04	5/26/2020 1:05	0:00:39	-51.64	115.86	495.04	-51.36	119.74	494.76	-143.66	0.34
512	5/26/2020 2:38	5/26/2020 2:39	0:00:40	-51.62	92.39	494.96	-51.32	96.27	494.68	-143.66	0.34
513	5/26/2020 4:12	5/26/2020 4:13	0:00:41	-51.59	68.93	494.97	-51.28	72.80	494.68	-143.67	0.33
514	5/26/2020 5:47	5/26/2020 5:47	0:00:30	-51.56	45.46	495.08	-51.33	48.36	494.85	-143.68	0.32
515	5/26/2020 7:21	5/26/2020 7:21	0:00:29	-51.53	22.00	495.07	-51.29	24.89	494.84	-143.69	0.31
516	5/26/2020 8:55	5/26/2020 8:55	0:00:30	-51.50	-1.47	495.13	-51.24	1.42	494.89	-143.69	0.31
517	5/26/2020 10:29	5/26/2020 10:30	0:00:31	-51.47	-24.95	495.04	-51.20	-22.06	494.80	-143.67	0.33
518	5/26/2020 12:03	5/26/2020 12:04	0:00:31	-51.43	-48.42	494.92	-51.15	-45.54	494.68	-143.65	0.35
519	5/26/2020 13:37	5/26/2020 13:38	0:00:30	-51.40	-71.89	494.90	-51.10	-69.01	494.65	-143.65	0.35
520	5/26/2020 15:12	5/26/2020 15:12	0:00:29	-51.36	-95.35	494.83	-51.06	-92.48	494.57	-143.65	0.35
521	5/26/2020 16:46	5/26/2020 16:46	0:00:31	-51.41	-119.78	494.81	-51.12	-116.90	494.55	-143.65	0.35
522	5/26/2020 18:20	5/26/2020 18:20	0:00:30	-51.37	-143.25	494.76	-51.06	-140.37	494.51	-143.66	0.34
523	5/26/2020 19:54	5/26/2020 19:54	0:00:30	-51.32	-166.71	494.86	-51.01	-163.85	494.60	-143.67	0.33
524	5/26/2020 21:28	5/26/2020 21:29	0:00:30	-51.28	169.81	494.98	-50.96	172.67	494.72	-143.68	0.32
525	5/26/2020 23:02	5/26/2020 23:03	0:00:30	-51.24	146.35	494.90	-50.90	149.20	494.64	-143.67	0.33
526	5/27/2020 0:36	5/27/2020 0:37	0:00:31	-51.19	122.88	494.82	-50.85	125.73	494.55	-143.65	0.35
527	5/27/2020 2:11	5/27/2020 2:11	0:00:30	-51.15	99.41	494.73	-50.79	102.25	494.46	-143.64	0.36
528	5/27/2020 3:45	5/27/2020 3:45	0:00:21	-51.10	75.94	494.71	-50.86	77.84	494.53	-143.64	0.36
529	5/27/2020 5:19	5/27/2020 5:19	0:00:20	-51.05	52.47	494.81	-50.80	54.36	494.62	-143.65	0.35
530	5/27/2020 6:53	5/27/2020 6:53	0:00:19	-50.99	29.00	494.79	-50.74	30.89	494.60	-143.66	0.34
531	5/27/2020 8:27	5/27/2020 8:28	0:00:19	-50.94	5.53	494.83	-50.68	7.41	494.64	-143.68	0.32
532	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	-143.69	0.31
533	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	-143.66	0.34
534	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	-143.65	0.35
535	5/27/2020 14:44	5/27/2020 14:44	0:00:20	-50.84	-89.32	494.61	-50.57	-87.44	494.41	-143.64	0.36
536	5/27/2020 16:18	5/27/2020 16:18	0:00:21	-50.78	-112.78	494.49	-50.50	-110.92	494.28	-143.64	0.36
537	5/27/2020 17:52	5/27/2020 17:52	0:00:21	-50.72	-136.25	494.43	-50.43	-134.39	494.23	-143.66	0.34
538	5/27/2020 19:26	5/27/2020 19:27	0:00:20	-50.65	-159.73	494.52	-50.35	-157.88	494.31	-143.69	0.31
539	5/27/2020 21:00	5/27/2020 21:01	0:00:19	-50.59	176.79	494.64	-50.28	178.64	494.43	-143.71	0.29
540	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	-143.68	0.32

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 ² /4kHz)	PFD Non- Compliance (dB)
541	5/28/2020 0:09	5/28/2020 0:09	0:00:20	-50.60	128.91	494.57	-50.30	130.76	494.36	-143.66	0.34
542	5/28/2020 1:43	5/28/2020 1:43	0:00:20	-50.54	105.44	494.47	-50.23	107.28	494.26	-143.65	0.35
543	5/28/2020 3:17	5/28/2020 3:17	0:00:19	-50.47	81.96	494.44	-50.15	83.80	494.22	-143.67	0.33
544	5/28/2020 4:51	5/28/2020 4:51	0:00:20	-50.40	58.48	494.51	-50.07	60.31	494.30	-143.69	0.31
545	5/28/2020 6:25	5/28/2020 6:26	0:00:21	-50.33	35.01	494.50	-50.00	36.83	494.28	-143.72	0.28
546	5/28/2020 7:59	5/28/2020 8:00	0:00:20	-50.25	11.53	494.53	-49.91	13.35	494.30	-143.73	0.27
547	5/28/2020 9:34	5/28/2020 9:34	0:00:09	-50.18	-11.96	494.43	-50.01	-11.05	494.32	-143.70	0.30
548	5/28/2020 11:08	5/28/2020 11:08	0:00:21	-50.27	-36.36	494.41	-49.93	-34.54	494.18	-143.69	0.31
549	5/28/2020 12:42	5/28/2020 12:42	0:00:21	-50.19	-59.84	494.37	-49.85	-58.03	494.14	-143.69	0.31
550	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	-143.71	0.29
551	5/28/2020 15:47	5/28/2020 15:48	0:00:41	-51.80	-125.13	475.71	-51.69	-121.19	473.53	-143.72	0.28
552	5/28/2020 15:50	5/28/2020 15:51	0:00:41	-50.23	-107.82	464.90	-49.51	-104.19	462.18	-143.17	0.83
553	5/28/2020 16:31	5/28/2020 16:38	0:07:01	50.98	28.89	379.68	48.13	69.64	402.20	-142.33	1.67
554	5/28/2020 17:20	5/28/2020 17:21	0:00:41	-51.79	-148.16	475.56	-51.66	-144.23	473.36	-143.74	0.26
555	5/28/2020 17:23	5/28/2020 17:24	0:00:50	-50.29	-131.81	465.36	-49.39	-127.28	461.97	-143.21	0.79
556	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	-141.71	2.29
557	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	-143.98	0.02
558	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	-141.93	2.07
559	5/28/2020 18:49	5/28/2020 18:57	0:07:51	-50.78	172.19	366.97	-47.19	-142.56	364.73	-141.15	2.85
560	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	-143.28	0.72
561	5/28/2020 19:35	5/28/2020 19:43	0:08:19	50.96	-18.14	367.36	45.96	29.32	366.94	-141.92	2.08
562	5/28/2020 20:21	5/28/2020 20:29	0:07:51	-50.84	149.35	367.09	-47.06	-165.46	364.86	-141.18	2.82
563	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	-143.18	0.82
564	5/28/2020 21:07	5/28/2020 21:15	0:08:19	51.01	-40.98	367.23	45.82	6.40	366.68	-141.91	2.09
565	5/28/2020 21:52	5/28/2020 22:00	0:07:51	-50.90	126.52	367.02	-46.94	171.65	364.78	-141.15	2.85
566	5/28/2020 22:01	5/28/2020 22:01	0:00:21	-45.78	174.87	364.34	-45.16	176.43	364.11	-143.14	0.86
567	5/28/2020 22:38	5/28/2020 22:47	0:08:20	51.07	-63.81	367.25	45.68	-16.52	366.62	-141.89	2.11
568	5/28/2020 23:24	5/28/2020 23:32	0:07:51	-50.97	103.70	366.94	-46.80	148.75	364.63	-141.13	2.87
569	5/28/2020 23:33	5/28/2020 23:33	0:00:21	-45.63	151.96	364.19	-45.01	153.51	363.95	-143.17	0.83
570	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	-141.89	2.11
571	5/29/2020 0:56	5/29/2020 1:03	0:07:39	-51.03	80.89	366.88	-46.95	125.04	364.58	-141.13	2.87
572	5/29/2020 1:04	5/29/2020 1:05	0:00:21	-45.49	129.06	364.03	-44.86	130.60	363.79	-143.23	0.77
573	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	-141.90	2.10
574	5/29/2020 2:27	5/29/2020 2:35	0:07:40	-51.08	58.07	366.87	-46.81	102.16	364.47	-141.16	2.84
575	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	-143.17	0.83
576	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	-141.91	2.09
577	5/29/2020 3:59	5/29/2020 4:07	0:07:40	-51.14	35.26	366.98	-46.68	79.26	364.47	-141.19	2.81
578	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	-143.09	0.91
579	5/29/2020 4:45	5/29/2020 4:53	0:08:10	51.28	-155.04	367.17	45.39	-108.92	366.51	-141.90	2.10
580	5/29/2020 5:31	5/29/2020 5:38	0:07:40	-51.19	12.45	367.04	-46.54	56.38	364.43	-141.22	2.78
581	5/29/2020 5:39	5/29/2020 5:39	0:00:20	-45.35	59.55	363.97	-44.71	61.09	363.72	-143.15	0.85
582	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	-141.90	2.10
583	5/29/2020 7:02	5/29/2020 7:10	0:07:29	-51.24	-10.34	367.06	-46.68	32.68	364.49	-141.19	2.81
584	5/29/2020 7:11	5/29/2020 7:11	0:00:20	-45.19	36.65	363.91	-44.55	38.17	363.66	-143.19	0.81
585	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	-141.90	2.10
586	5/29/2020 8:34	5/29/2020 8:42	0:07:29	-51.29	-33.15	367.08	-46.55	9.79	364.41	-141.18	2.82
587	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	-143.20	0.80
588	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	-141.90	2.10
589	5/29/2020 10:06	5/29/2020 10:13	0:07:29	-51.33	-55.95	367.00	-46.41	-13.10	364.24	-141.19	2.81
590	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	-143.12	0.88
591	5/29/2020 10:52	5/29/2020 11:00	0:08:00	51.45	113.78	367.18	45.09	158.69	366.48	-141.89	2.11
592	5/29/2020 11:37	5/29/2020 11:45	0:07:29	-51.38	-78.75	366.96	-46.26	-35.99	364.12	-141.22	2.78
593	5/29/2020 11:46	5/29/2020 11:46	0:00:19	-45.05	-32.85	363.63	-44.40	-31.33	363.38	-143.13	0.87
594	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	-141.89	2.11
595	5/29/2020 13:09	5/29/2020 13:16	0:07:21	-51.42	-101.54	366.94	-46.41	-59.68	364.14	-141.24	2.76
596	5/29/2020 13:17	5/29/2020 13:18	0:00:19	-44.89	-55.75	363.54	-44.24	-54.24	363.28	-143.15	0.85
597	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	-141.24	2.76
598	5/29/2020 14:23	5/29/2020 14:24	0:00:30	-11.94	168.69	278.22	-13.49	169.87	275.37	-143.34	0.66
599	5/29/2020 14:36	5/29/2020 14:36	0:00:20	-46.72	-147.54	213.56	-47.29	-145.82	212.30	-143.57	0.43
600	5/29/2020 14:37	5/29/2020 14:38	0:00:41	-48.10	-143.17	210.45	-49.06	-139.49	208.08	-141.08	2.92

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 ² /4kHz)	PFD Non- Compliance (dB)
601	5/29/2020 14:38	5/29/2020 14:51	0:12:51	-49.89	-135.68	205.82	-37.45	-65.07	188.52	-135.52	8.48
602	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	-142.40	1.60
603	5/29/2020 15:24	5/29/2020 15:24	0:00:09	50.90	39.13	351.02	51.02	40.10	351.60	-143.88	0.12
604	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	-141.68	2.32
605	5/29/2020 15:49	5/29/2020 15:49	0:00:29	0.34	137.01	300.67	-1.23	138.12	297.85	-143.80	0.20
606	5/29/2020 15:53	5/29/2020 15:54	0:00:50	-12.69	146.42	276.92	-15.27	148.41	272.20	-143.67	0.33
607	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	-143.56	0.44
608	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	-141.07	2.93
609	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	-135.51	8.49
610	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	-143.87	0.13
611	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	-142.57	1.43
612	5/29/2020 16:30	5/29/2020 16:30	0:00:00	-11.58	-62.35	211.82	-11.58	-62.35	211.82	-143.88	0.12
613	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	-143.87	0.13
614	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	-141.66	2.34
615	5/29/2020 17:18	5/29/2020 17:19	0:00:59	1.13	113.62	302.07	-2.01	115.83	296.44	-143.46	0.54
616	5/29/2020 17:23	5/29/2020 17:24	0:00:50	-13.46	124.18	275.57	-16.04	126.18	270.87	-143.64	0.36
617	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	-143.55	0.45
618	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	-141.05	2.95
619	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	-135.52	8.48
620	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	-143.67	0.33
621	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	-141.97	2.03
622	5/29/2020 17:59	5/29/2020 17:59	0:00:00	-11.85	-85.39	211.05	-11.85	-85.39	211.05	-143.68	0.32
623	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	-140.35	3.65
624	5/29/2020 18:47	5/29/2020 18:47	0:00:30	5.07	87.98	282.39	3.51	89.10	278.05	-143.66	0.34
625	5/29/2020 18:48	5/29/2020 18:50	0:02:19	1.94	90.21	273.65	-5.42	95.42	252.56	-142.10	1.90
626	5/29/2020 18:52	5/29/2020 18:55	0:02:59	-10.67	99.24	237.14	-20.01	106.60	209.32	-142.04	1.96
627	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	-142.76	1.24
628	5/29/2020 18:57	5/29/2020 18:58	0:00:09	-27.54	113.54	186.72	-28.03	114.04	185.24	-143.77	0.23
629	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	-142.07	1.93

Max. Exceedance: 8.49 dB