

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	12/3/2023 16:16	12/3/2023 16:19	0:02:49	44.14	-57.32	255.35	48.95	-43.08	257.23	-138.16	5.84
2	12/3/2023 16:20	12/3/2023 16:49	0:29:10	49.59	-40.29	257.49	-10.37	72.83	247.46	-137.92	6.08
3	12/3/2023 16:49	12/3/2023 16:52	0:02:40	-12.46	74.40	247.63	-20.68	80.99	248.68	-140.49	3.51
4	12/3/2023 16:53	12/3/2023 17:23	0:30:10	-24.18	84.11	249.30	-21.03	-141.92	249.49	-137.81	6.19
5	12/3/2023 17:24	12/3/2023 17:48	0:24:20	-19.01	-140.20	249.23	48.90	-66.05	261.93	-138.06	5.94
6	12/3/2023 17:49	12/3/2023 17:52	0:02:50	49.54	-63.27	262.27	51.66	-46.32	264.32	-139.24	4.76
7	12/3/2023 17:52	12/3/2023 18:07	0:14:30	51.75	-43.21	264.72	25.14	22.98	294.65	-138.59	5.41
8	12/3/2023 18:08	12/3/2023 18:11	0:03:40	22.19	25.68	298.28	11.03	34.67	313.14	-140.71	3.29
9	12/3/2023 18:12	12/3/2023 18:16	0:04:10	9.48	35.81	315.33	-3.49	45.07	334.63	-141.58	2.42
10	12/3/2023 18:17	12/3/2023 18:18	0:01:10	-6.08	46.92	338.64	-9.68	49.53	344.28	-141.65	2.35
11	12/3/2023 18:21	12/3/2023 18:21	0:00:10	-17.77	55.76	357.05	-18.27	56.17	357.84	-143.42	0.58
12	12/3/2023 18:23	12/3/2023 18:26	0:03:00	-25.09	62.15	368.50	-33.34	70.96	380.88	-143.67	0.33
13	12/3/2023 18:27	12/3/2023 18:28	0:01:00	-35.90	74.26	384.55	-38.36	77.80	387.95	-143.20	0.80
14	12/3/2023 18:29	12/3/2023 18:30	0:00:10	-41.04	82.25	391.53	-41.41	82.91	392.00	-143.76	0.24
15	12/3/2023 18:39	12/3/2023 18:39	0:00:50	-51.71	130.14	402.05	-51.44	135.09	401.30	-143.19	0.81
16	12/3/2023 18:40	12/3/2023 18:41	0:00:40	-51.17	138.03	400.71	-50.69	141.88	399.76	-142.01	1.99
17	12/3/2023 18:43	12/3/2023 18:43	0:00:30	-48.45	152.81	395.85	-47.72	155.37	394.63	-142.80	1.20
18	12/3/2023 18:44	12/3/2023 18:44	0:00:00	-46.93	157.86	393.32	-46.93	157.86	393.32	-143.57	0.43
19	12/3/2023 18:44	12/3/2023 18:45	0:00:40	-46.09	160.27	391.92	-44.87	163.35	389.91	-141.40	2.60
20	12/3/2023 18:46	12/3/2023 18:52	0:05:40	-42.18	169.13	385.46	-27.94	-171.45	361.29	-141.61	2.39
21	12/3/2023 18:54	12/3/2023 18:54	0:00:20	-22.20	-166.02	351.42	-21.22	-165.16	349.74	-143.01	0.99
22	12/3/2023 18:55	12/3/2023 18:56	0:00:40	-18.25	-162.66	344.67	-16.25	-161.04	341.27	-142.05	1.95
23	12/3/2023 18:56	12/3/2023 19:03	0:06:40	-14.22	-159.46	337.87	6.50	-144.48	305.59	-140.43	3.57
24	12/3/2023 19:04	12/3/2023 19:05	0:01:20	8.58	-142.97	302.71	12.73	-139.89	297.20	-141.87	2.13
25	12/3/2023 19:07	12/3/2023 19:08	0:01:00	18.36	-135.45	290.26	21.38	-132.90	286.81	-141.75	2.25
26	12/3/2023 19:09	12/3/2023 19:11	0:02:00	24.35	-130.22	283.60	30.12	-124.42	277.95	-141.77	2.23
27	12/3/2023 19:11	12/3/2023 19:19	0:07:50	31.52	-122.86	276.70	48.78	-89.67	265.42	-138.62	5.38
28	12/3/2023 19:20	12/3/2023 19:23	0:02:50	49.64	-85.94	265.16	51.69	-68.91	265.19	-139.58	4.42
29	12/3/2023 19:23	12/3/2023 19:23	0:00:10	51.76	-65.79	265.39	51.77	-64.75	265.46	-143.39	0.61
30	12/3/2023 19:24	12/3/2023 19:38	0:13:50	51.72	-61.63	265.73	24.87	0.12	294.69	-138.61	5.39
31	12/3/2023 19:39	12/3/2023 19:47	0:08:20	21.92	2.81	298.34	-3.78	22.16	334.73	-140.97	3.03
32	12/3/2023 19:48	12/3/2023 19:49	0:01:10	-6.37	24.01	338.75	-9.97	26.63	344.39	-141.48	2.52
33	12/3/2023 19:51	12/3/2023 19:52	0:00:20	-16.56	31.66	354.80	-17.56	32.47	356.38	-143.64	0.36
34	12/3/2023 19:54	12/3/2023 19:56	0:01:20	-25.36	39.29	368.61	-29.11	43.04	374.33	-143.67	0.33
35	12/3/2023 19:57	12/3/2023 19:57	0:00:30	-31.83	46.04	378.39	-33.15	47.61	380.33	-143.59	0.41
36	12/3/2023 19:58	12/3/2023 19:59	0:00:50	-36.14	51.47	384.63	-38.18	54.42	387.47	-143.36	0.64
37	12/3/2023 20:00	12/3/2023 20:01	0:00:10	-41.26	59.51	391.58	-41.62	60.18	392.05	-143.71	0.29
38	12/3/2023 20:09	12/3/2023 20:10	0:01:00	-51.72	106.60	402.04	-51.39	112.54	401.15	-143.20	0.80
39	12/3/2023 20:11	12/3/2023 20:12	0:00:40	-51.11	115.47	400.55	-50.61	119.31	399.59	-142.18	1.82
40	12/3/2023 20:14	12/3/2023 20:14	0:00:30	-48.32	130.19	395.64	-47.58	132.74	394.41	-142.84	1.16
41	12/3/2023 20:15	12/3/2023 20:15	0:00:00	-46.78	135.21	393.09	-46.78	135.21	393.09	-143.77	0.23
42	12/3/2023 20:15	12/3/2023 20:16	0:00:40	-45.92	137.60	391.68	-44.69	140.67	389.66	-141.47	2.53
43	12/3/2023 20:17	12/3/2023 20:19	0:01:40	-41.98	146.40	385.19	-38.17	152.85	378.86	-141.56	2.44
44	12/3/2023 20:19	12/3/2023 20:23	0:03:20	-36.54	155.23	376.11	-27.67	165.71	360.99	-142.19	1.81
45	12/3/2023 20:25	12/3/2023 20:25	0:00:20	-21.92	171.11	351.12	-20.94	171.97	349.44	-143.23	0.77
46	12/3/2023 20:26	12/3/2023 20:27	0:00:40	-17.47	174.86	343.53	-15.46	176.47	340.13	-141.45	2.55
47	12/3/2023 20:27	12/3/2023 20:34	0:06:40	-13.94	177.65	337.58	6.80	-167.38	305.39	-140.09	3.91
48	12/3/2023 20:35	12/3/2023 20:36	0:01:20	8.88	-165.87	302.51	13.02	-162.78	297.03	-141.98	2.02
49	12/3/2023 20:38	12/3/2023 20:39	0:00:40	19.65	-157.49	288.95	21.66	-155.77	286.68	-141.75	2.25
50	12/3/2023 20:40	12/3/2023 20:50	0:10:20	24.63	-153.08	283.49	48.91	-112.27	265.40	-138.76	5.24
51	12/3/2023 20:51	12/3/2023 21:08	0:17:10	49.55	-109.47	265.19	27.02	-25.07	291.89	-138.63	5.37
52	12/3/2023 21:09	12/3/2023 21:09	0:00:10	24.60	-22.73	294.79	24.11	-22.28	295.38	-143.11	0.89
53	12/3/2023 21:10	12/3/2023 21:15	0:05:20	22.13	-20.49	297.82	5.79	-7.74	320.05	-140.96	3.04
54	12/3/2023 21:15	12/3/2023 21:16	0:00:30	4.23	-6.63	322.34	2.67	-5.52	324.66	-141.80	2.20
55	12/3/2023 21:17	12/3/2023 21:18	0:01:30	0.59	-4.05	327.78	-4.08	-0.74	334.92	-140.98	3.02
56	12/3/2023 21:19	12/3/2023 21:20	0:01:10	-6.66	1.10	338.94	-10.26	3.73	344.58	-141.32	2.68
57	12/3/2023 21:21	12/3/2023 21:22	0:00:40	-14.33	6.80	351.01	-16.34	8.38	354.20	-143.57	0.43

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)
58	12/3/2023 21:25	12/3/2023 21:26	0:01:00	-26.11	16.89	369.51	-28.91	19.71	373.79	-143.66	0.34
59	12/3/2023 21:28	12/3/2023 21:28	0:00:20	-32.52	23.74	379.19	-33.40	24.80	380.47	-143.91	0.09
60	12/3/2023 21:29	12/3/2023 21:30	0:01:00	-35.97	28.11	384.16	-38.41	31.66	387.57	-143.50	0.50
61	12/3/2023 21:31	12/3/2023 21:32	0:00:20	-41.10	36.11	391.18	-41.83	37.45	392.13	-143.81	0.19
62	12/3/2023 21:40	12/3/2023 21:43	0:02:10	-51.70	84.06	401.90	-50.52	96.74	399.39	-142.44	1.56
63	12/3/2023 21:45	12/3/2023 21:45	0:00:30	-48.18	107.57	395.39	-47.43	110.10	394.15	-142.87	1.13
64	12/3/2023 21:46	12/3/2023 21:47	0:00:40	-45.75	114.94	391.40	-44.51	117.99	389.37	-141.72	2.28
65	12/3/2023 21:48	12/3/2023 21:50	0:01:30	-41.41	124.35	384.28	-37.94	130.09	378.52	-141.49	2.51
66	12/3/2023 21:51	12/3/2023 21:54	0:03:20	-35.88	133.02	375.06	-26.93	143.33	359.82	-142.35	1.65
67	12/3/2023 21:56	12/3/2023 21:56	0:00:20	-21.64	148.24	350.76	-20.66	149.09	349.09	-143.13	0.87
68	12/3/2023 21:57	12/3/2023 22:00	0:03:00	-17.18	151.98	343.18	-8.00	158.96	327.98	-141.40	2.60
69	12/3/2023 22:01	12/3/2023 22:05	0:04:20	-6.45	160.08	325.49	7.09	169.71	305.15	-139.84	4.16
70	12/3/2023 22:06	12/3/2023 22:07	0:01:20	9.17	171.23	302.29	13.31	174.33	296.83	-142.06	1.94
71	12/3/2023 22:09	12/3/2023 22:10	0:00:40	19.94	179.64	288.79	21.95	-178.63	286.54	-141.36	2.64
72	12/3/2023 22:11	12/3/2023 22:21	0:10:10	24.91	-175.93	283.37	48.81	-135.78	265.52	-138.88	5.12
73	12/3/2023 22:22	12/3/2023 22:39	0:17:00	49.66	-132.05	265.24	27.23	-48.39	291.50	-138.66	5.34
74	12/3/2023 22:40	12/3/2023 22:47	0:07:10	24.32	-45.59	294.97	2.37	-28.43	324.92	-140.91	3.09
75	12/3/2023 22:48	12/3/2023 22:49	0:01:30	0.30	-26.96	328.04	-4.37	-23.65	335.20	-140.73	3.27
76	12/3/2023 22:50	12/3/2023 22:51	0:01:20	-6.44	-22.17	338.41	-10.55	-19.17	344.87	-141.63	2.37
77	12/3/2023 22:52	12/3/2023 22:53	0:00:40	-13.61	-16.87	349.70	-15.63	-15.30	352.90	-143.38	0.62
78	12/3/2023 22:56	12/3/2023 22:57	0:00:50	-26.38	-5.96	369.78	-28.72	-3.61	373.35	-143.62	0.38
79	12/3/2023 23:00	12/3/2023 23:01	0:00:50	-36.20	5.33	384.38	-38.24	8.28	387.23	-143.39	0.61
80	12/3/2023 23:02	12/3/2023 23:02	0:00:10	-41.31	13.38	391.36	-41.68	14.05	391.84	-143.83	0.17
81	12/3/2023 23:11	12/3/2023 23:14	0:02:20	-51.68	61.51	401.87	-50.28	75.10	399.02	-142.49	1.51
82	12/3/2023 23:16	12/3/2023 23:16	0:00:30	-48.04	84.95	395.25	-47.28	87.46	393.99	-142.90	1.10
83	12/3/2023 23:17	12/3/2023 23:18	0:01:10	-46.17	90.70	392.18	-43.99	96.03	388.64	-141.85	2.15
84	12/3/2023 23:19	12/3/2023 23:21	0:01:40	-41.19	101.62	384.05	-37.30	107.91	377.57	-141.51	2.49
85	12/3/2023 23:22	12/3/2023 23:24	0:02:20	-35.64	110.24	374.79	-29.45	117.62	364.28	-142.46	1.54
86	12/3/2023 23:24	12/3/2023 23:25	0:00:30	-28.07	119.07	361.91	-26.66	120.48	359.50	-142.88	1.12
87	12/3/2023 23:27	12/3/2023 23:27	0:00:10	-20.87	125.80	349.59	-20.38	126.22	348.75	-143.02	0.98
88	12/3/2023 23:28	12/3/2023 23:31	0:03:10	-17.39	128.69	343.69	-7.71	136.06	327.66	-141.32	2.68
89	12/3/2023 23:32	12/3/2023 23:33	0:01:00	-6.15	137.18	325.18	-3.04	139.40	320.27	-142.95	1.05
90	12/3/2023 23:33	12/3/2023 23:36	0:02:30	-0.95	140.87	317.06	6.87	146.44	305.60	-140.14	3.86
91	12/3/2023 23:37	12/3/2023 23:38	0:01:20	9.47	148.33	302.02	13.61	151.43	296.58	-142.11	1.89
92	12/3/2023 23:40	12/3/2023 23:41	0:00:40	20.23	156.77	288.57	22.23	158.50	286.33	-140.80	3.20
93	12/3/2023 23:42	12/3/2023 23:52	0:10:10	24.70	160.75	283.68	48.71	-159.29	265.52	-139.00	5.00
94	12/3/2023 23:53	12/4/2023 0:10	0:17:00	49.58	-155.57	265.22	27.43	-71.72	291.02	-138.72	5.28
95	12/4/2023 0:11	12/4/2023 0:18	0:07:00	24.04	-68.45	295.06	2.59	-51.70	324.35	-140.87	3.13
96	12/4/2023 0:19	12/4/2023 0:19	0:00:20	-0.01	-49.86	328.26	-1.04	-49.13	329.85	-139.73	4.27
97	12/4/2023 0:20	12/4/2023 0:20	0:00:30	-3.12	-47.66	333.03	-4.67	-46.55	335.44	-141.69	2.31
98	12/4/2023 0:21	12/4/2023 0:22	0:01:20	-6.74	-45.07	338.66	-10.85	-42.07	345.13	-142.13	1.87
99	12/4/2023 0:23	12/4/2023 0:24	0:00:30	-13.90	-39.76	349.97	-15.41	-38.59	352.38	-143.65	0.35
100	12/4/2023 0:28	12/4/2023 0:28	0:00:30	-27.13	-28.34	370.80	-28.52	-26.92	372.94	-143.62	0.38
101	12/4/2023 0:31	12/4/2023 0:32	0:01:00	-36.03	-18.03	384.06	-38.48	-14.48	387.49	-143.06	0.94
102	12/4/2023 0:33	12/4/2023 0:33	0:00:20	-41.16	-10.02	391.12	-41.89	-8.67	392.08	-143.86	0.14
103	12/4/2023 0:42	12/4/2023 0:45	0:02:30	-51.70	37.98	402.02	-50.19	52.53	398.98	-142.30	1.70
104	12/4/2023 0:47	12/4/2023 0:47	0:00:30	-47.90	62.32	395.16	-47.12	64.83	393.90	-142.94	1.06
105	12/4/2023 0:48	12/4/2023 0:49	0:01:00	-45.70	68.82	391.59	-43.80	73.34	388.50	-142.37	1.63
106	12/4/2023 0:50	12/4/2023 0:52	0:01:40	-40.98	78.89	383.87	-37.06	85.14	377.37	-141.29	2.71
107	12/4/2023 0:53	12/4/2023 0:55	0:02:00	-34.97	88.01	373.85	-29.65	94.29	364.81	-142.56	1.44
108	12/4/2023 0:56	12/4/2023 0:56	0:00:10	-26.86	97.17	360.03	-26.39	97.63	359.22	-143.48	0.52
109	12/4/2023 0:58	12/4/2023 0:58	0:00:20	-20.58	102.92	349.29	-19.60	103.76	347.61	-142.07	1.93
110	12/4/2023 0:59	12/4/2023 1:02	0:03:00	-16.60	106.21	342.53	-7.41	113.15	327.34	-141.26	2.74
111	12/4/2023 1:03	12/4/2023 1:07	0:04:10	-5.86	114.27	324.86	7.17	123.54	305.30	-140.26	3.74
112	12/4/2023 1:08	12/4/2023 1:09	0:01:20	9.77	125.43	301.72	13.90	128.54	296.29	-142.02	1.98
113	12/4/2023 1:11	12/4/2023 1:12	0:01:20	19.00	132.62	290.04	23.01	136.08	285.51	-141.09	2.91
114	12/4/2023 1:13	12/4/2023 1:23	0:10:10	24.98	137.90	283.41	48.84	178.12	265.30	-138.73	5.27

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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)
115	12/4/2023 1:24	12/4/2023 1:40	0:16:50	49.69	-178.15	265.01	27.63	-95.03	290.46	-138.79	5.21
116	12/4/2023 1:42	12/4/2023 1:45	0:02:50	23.75	-91.30	295.09	15.21	-84.11	306.06	-140.94	3.06
117	12/4/2023 1:45	12/4/2023 1:49	0:03:50	13.68	-82.92	308.14	1.77	-74.23	325.28	-141.08	2.92
118	12/4/2023 1:49	12/4/2023 1:50	0:00:30	0.21	-73.13	327.64	-1.35	-72.03	330.01	-139.64	4.36
119	12/4/2023 1:51	12/4/2023 1:51	0:00:20	-3.94	-70.19	334.01	-4.98	-69.45	335.62	-141.75	2.25
120	12/4/2023 1:52	12/4/2023 1:53	0:01:20	-7.04	-67.97	338.84	-11.15	-64.96	345.32	-142.38	1.62
121	12/4/2023 1:55	12/4/2023 1:55	0:00:00	-15.71	-61.47	352.57	-15.71	-61.47	352.57	-143.94	0.06
122	12/4/2023 1:59	12/4/2023 1:59	0:00:20	-27.40	-51.18	370.97	-28.33	-50.24	372.40	-143.61	0.39
123	12/4/2023 2:02	12/4/2023 2:03	0:01:10	-35.86	-41.38	383.60	-38.71	-37.23	387.61	-142.68	1.32
124	12/4/2023 2:04	12/4/2023 2:04	0:00:20	-41.38	-32.74	391.22	-42.10	-31.38	392.17	-143.79	0.21
125	12/4/2023 2:13	12/4/2023 2:16	0:02:30	-51.68	15.46	401.91	-50.09	29.96	398.83	-142.11	1.89
126	12/4/2023 2:18	12/4/2023 2:18	0:00:30	-47.75	39.71	394.97	-46.96	42.20	393.70	-142.97	1.03
127	12/4/2023 2:19	12/4/2023 2:20	0:01:00	-45.52	46.17	391.37	-43.60	50.65	388.26	-142.54	1.46
128	12/4/2023 2:21	12/4/2023 2:23	0:01:40	-40.76	56.17	383.62	-36.82	62.37	377.09	-141.30	2.70
129	12/4/2023 2:24	12/4/2023 2:26	0:02:00	-34.72	65.22	373.57	-29.38	71.47	364.51	-142.84	1.16
130	12/4/2023 2:29	12/4/2023 2:29	0:00:20	-19.80	80.48	348.15	-18.81	81.30	346.46	-142.04	1.96
131	12/4/2023 2:30	12/4/2023 2:36	0:05:30	-15.80	83.73	341.38	1.22	96.18	314.13	-140.91	3.09
132	12/4/2023 2:36	12/4/2023 2:38	0:01:20	2.78	97.28	311.81	6.95	100.27	305.81	-140.33	3.67
133	12/4/2023 2:39	12/4/2023 2:40	0:01:30	10.07	102.54	301.52	14.72	106.06	295.47	-141.96	2.04
134	12/4/2023 2:42	12/4/2023 2:49	0:07:30	18.80	109.33	290.49	39.67	132.68	270.66	-140.13	3.87
135	12/4/2023 2:50	12/4/2023 2:54	0:04:20	40.85	134.69	269.85	48.97	155.54	265.36	-139.02	4.98
136	12/4/2023 2:54	12/4/2023 3:11	0:17:00	49.61	158.34	265.13	27.35	-117.87	290.60	-138.86	5.14
137	12/4/2023 3:13	12/4/2023 3:21	0:08:10	23.46	-114.15	295.25	-1.65	-94.93	330.25	-140.69	3.31
138	12/4/2023 3:22	12/4/2023 3:22	0:00:30	-3.73	-93.46	333.45	-5.28	-92.35	335.87	-141.51	2.49
139	12/4/2023 3:23	12/4/2023 3:23	0:00:40	-6.83	-91.24	338.29	-8.89	-89.74	341.53	-142.49	1.51
140	12/4/2023 3:24	12/4/2023 3:24	0:00:10	-10.94	-88.23	344.78	-11.45	-87.85	345.59	-143.70	0.30
141	12/4/2023 3:30	12/4/2023 3:30	0:00:00	-28.14	-73.55	371.96	-28.14	-73.55	371.96	-143.89	0.11
142	12/4/2023 3:33	12/4/2023 3:34	0:01:30	-35.69	-64.73	383.25	-39.33	-59.36	388.39	-142.24	1.76
143	12/4/2023 3:35	12/4/2023 3:35	0:00:20	-41.22	-56.12	390.95	-41.95	-54.78	391.91	-143.66	0.34
144	12/4/2023 3:44	12/4/2023 3:45	0:01:00	-51.65	-7.07	401.91	-51.22	-1.16	400.96	-143.25	0.75
145	12/4/2023 3:46	12/4/2023 3:47	0:01:00	-50.88	1.74	400.33	-49.98	7.39	398.76	-141.97	2.03
146	12/4/2023 3:49	12/4/2023 3:49	0:00:30	-47.60	17.09	394.86	-46.80	19.56	393.58	-143.01	0.99
147	12/4/2023 3:50	12/4/2023 3:51	0:01:00	-45.34	23.51	391.24	-43.40	27.96	388.11	-142.41	1.59
148	12/4/2023 3:52	12/4/2023 3:54	0:01:50	-40.54	33.44	383.44	-36.16	40.18	376.20	-141.76	2.24
149	12/4/2023 3:55	12/4/2023 3:57	0:01:50	-34.03	42.98	372.63	-29.11	48.64	364.28	-143.36	0.64
150	12/4/2023 4:00	12/4/2023 4:01	0:00:30	-19.51	57.60	347.90	-18.02	58.84	345.37	-141.73	2.27
151	12/4/2023 4:02	12/4/2023 4:07	0:05:10	-15.00	61.24	340.29	1.00	72.91	314.70	-141.22	2.78
152	12/4/2023 4:07	12/4/2023 4:09	0:01:30	3.09	74.38	311.60	7.78	77.75	304.90	-140.52	3.48
153	12/4/2023 4:10	12/4/2023 4:12	0:01:50	10.37	79.65	301.35	16.04	83.98	294.04	-142.00	2.00
154	12/4/2023 4:12	12/4/2023 4:20	0:07:30	18.58	86.04	290.96	39.50	109.28	270.93	-140.66	3.34
155	12/4/2023 4:21	12/4/2023 4:43	0:22:00	41.07	111.97	269.84	26.59	-140.23	291.32	-138.71	5.29
156	12/4/2023 4:43	12/4/2023 4:52	0:08:30	24.16	-137.91	294.21	-1.96	-117.83	330.46	-140.64	3.36
157	12/4/2023 4:53	12/4/2023 4:53	0:00:30	-4.03	-116.36	333.66	-5.58	-115.25	336.07	-141.54	2.46
158	12/4/2023 4:54	12/4/2023 4:54	0:00:30	-7.13	-114.14	338.50	-8.68	-113.02	340.93	-142.33	1.67
159	12/4/2023 4:55	12/4/2023 4:55	0:00:00	-11.24	-111.13	344.98	-11.24	-111.13	344.98	-143.88	0.12
160	12/4/2023 5:03	12/4/2023 5:06	0:02:50	-35.51	-88.08	382.75	-42.16	-77.49	391.97	-142.11	1.89
161	12/4/2023 5:15	12/4/2023 5:16	0:01:00	-51.62	-29.60	401.74	-51.16	-23.71	400.77	-143.15	0.85
162	12/4/2023 5:17	12/4/2023 5:18	0:01:00	-50.81	-20.81	400.12	-49.88	-15.18	398.53	-141.84	2.16
163	12/4/2023 5:20	12/4/2023 5:20	0:00:30	-47.44	-5.54	394.59	-46.63	-3.08	393.29	-143.03	0.97
164	12/4/2023 5:21	12/4/2023 5:22	0:00:50	-45.16	0.84	390.93	-43.54	4.55	388.34	-142.27	1.73
165	12/4/2023 5:23	12/4/2023 5:25	0:01:50	-40.31	10.70	383.10	-35.91	17.40	375.84	-141.95	2.05
166	12/4/2023 5:26	12/4/2023 5:26	0:00:00	-33.34	20.72	371.53	-33.34	20.72	371.53	-143.84	0.16
167	12/4/2023 5:27	12/4/2023 5:28	0:00:20	-29.75	24.83	365.47	-28.83	25.81	363.91	-143.93	0.07
168	12/4/2023 5:31	12/4/2023 5:32	0:00:40	-19.22	34.73	347.54	-17.22	36.36	344.17	-140.74	3.26
169	12/4/2023 5:33	12/4/2023 5:38	0:05:00	-14.19	38.75	339.10	1.31	50.01	314.43	-140.93	3.07
170	12/4/2023 5:38	12/4/2023 5:40	0:01:30	3.39	51.48	311.35	8.08	54.85	304.67	-140.70	3.30
171	12/4/2023 5:40	12/4/2023 5:43	0:02:20	9.64	55.99	302.54	16.85	61.51	293.24	-142.02	1.98

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)
172	12/4/2023 5:43	12/4/2023 5:51	0:07:20	18.88	63.17	290.80	39.34	85.89	271.17	-140.99	3.01
173	12/4/2023 5:51	12/4/2023 6:14	0:22:10	40.91	88.57	270.06	26.31	-163.07	291.45	-138.67	5.33
174	12/4/2023 6:14	12/4/2023 6:22	0:07:30	24.37	-161.22	293.76	1.38	-143.30	325.12	-140.68	3.32
175	12/4/2023 6:22	12/4/2023 6:23	0:00:40	-0.18	-142.20	327.48	-2.26	-140.73	330.65	-141.53	2.47
176	12/4/2023 6:23	12/4/2023 6:24	0:00:30	-3.82	-139.63	333.05	-5.37	-138.52	335.46	-141.43	2.57
177	12/4/2023 6:25	12/4/2023 6:25	0:00:30	-7.43	-137.04	338.69	-8.98	-135.91	341.12	-142.07	1.93
178	12/4/2023 6:26	12/4/2023 6:26	0:00:00	-11.54	-134.02	345.17	-11.54	-134.02	345.17	-143.97	0.03
179	12/4/2023 6:28	12/4/2023 6:28	0:00:10	-17.10	-129.72	354.02	-17.60	-129.31	354.81	-143.55	0.45
180	12/4/2023 6:34	12/4/2023 6:37	0:03:10	-35.34	-111.42	382.23	-42.72	-99.50	392.47	-141.26	2.74
181	12/4/2023 6:46	12/4/2023 6:47	0:01:10	-51.64	-53.12	401.67	-51.10	-46.24	400.54	-143.16	0.84
182	12/4/2023 6:48	12/4/2023 6:49	0:01:00	-50.73	-43.36	399.89	-49.77	-37.75	398.27	-141.77	2.23
183	12/4/2023 6:51	12/4/2023 6:51	0:00:30	-47.29	-28.16	394.29	-46.47	-25.72	392.99	-143.06	0.94
184	12/4/2023 6:52	12/4/2023 6:53	0:00:40	-44.97	-21.82	390.62	-43.68	-18.86	388.55	-142.14	1.86
185	12/4/2023 6:54	12/4/2023 6:56	0:01:40	-39.70	-11.39	382.13	-35.66	-5.38	375.47	-141.83	2.17
186	12/4/2023 7:02	12/4/2023 7:03	0:00:40	-18.92	11.86	347.18	-16.92	13.49	343.81	-141.07	2.93
187	12/4/2023 7:04	12/4/2023 7:06	0:02:30	-13.89	15.87	338.75	-6.19	21.57	326.20	-142.27	1.73
188	12/4/2023 7:07	12/4/2023 7:09	0:01:50	-4.63	22.68	323.74	1.09	26.74	314.94	-141.39	2.61
189	12/4/2023 7:09	12/4/2023 7:12	0:02:40	3.70	28.59	311.09	12.02	34.64	299.55	-140.76	3.24
190	12/4/2023 7:13	12/4/2023 7:14	0:01:00	14.08	36.22	296.88	17.15	38.64	293.06	-142.45	1.55
191	12/4/2023 7:15	12/4/2023 7:15	0:00:10	20.19	41.15	289.46	20.69	41.58	288.89	-143.92	0.08
192	12/4/2023 7:16	12/4/2023 7:53	0:36:40	23.67	44.22	285.56	1.59	-166.57	324.53	-138.15	5.85
193	12/4/2023 7:54	12/4/2023 7:54	0:00:10	-1.53	-164.36	329.26	-2.05	-163.99	330.05	-143.77	0.23
194	12/4/2023 7:54	12/4/2023 7:55	0:00:40	-3.61	-162.89	332.45	-5.68	-161.42	335.67	-141.55	2.45
195	12/4/2023 7:56	12/4/2023 7:56	0:00:30	-7.74	-159.93	338.90	-9.28	-158.80	341.33	-141.79	2.21
196	12/4/2023 7:59	12/4/2023 7:59	0:00:10	-17.40	-152.59	354.24	-17.89	-152.19	355.04	-143.26	0.74
197	12/4/2023 8:05	12/4/2023 8:08	0:03:10	-35.60	-134.20	382.41	-42.93	-122.20	392.59	-140.95	3.05
198	12/4/2023 8:17	12/4/2023 8:20	0:02:40	-51.61	-75.64	401.58	-49.66	-60.31	398.12	-141.92	2.08
199	12/4/2023 8:22	12/4/2023 8:22	0:00:30	-47.13	-50.77	394.09	-46.30	-48.35	392.78	-143.07	0.93
200	12/4/2023 8:23	12/4/2023 8:24	0:00:30	-44.46	-43.73	389.88	-43.47	-41.54	388.30	-141.98	2.02
201	12/4/2023 8:25	12/4/2023 8:27	0:01:40	-39.47	-34.12	381.85	-35.41	-28.15	375.18	-141.50	2.50
202	12/4/2023 8:33	12/4/2023 8:34	0:01:00	-19.12	-11.42	347.70	-16.12	-8.98	342.66	-141.47	2.53
203	12/4/2023 8:35	12/4/2023 8:35	0:00:30	-13.59	-7.01	338.44	-12.06	-5.85	335.91	-142.82	1.18
204	12/4/2023 8:36	12/4/2023 8:37	0:01:20	-10.52	-4.71	333.40	-6.40	-1.70	326.74	-142.21	1.79
205	12/4/2023 8:38	12/4/2023 8:40	0:01:50	-4.32	-0.21	323.46	1.41	3.84	314.68	-141.52	2.48
206	12/4/2023 8:40	12/4/2023 8:43	0:02:40	3.49	5.32	311.60	11.81	11.37	300.02	-140.12	3.88
207	12/4/2023 8:44	12/4/2023 8:45	0:01:00	14.39	13.34	296.68	17.45	15.77	292.88	-141.97	2.03
208	12/4/2023 8:47	12/4/2023 9:23	0:36:30	23.97	21.37	285.41	1.79	170.17	323.87	-138.10	5.90
209	12/4/2023 9:25	12/4/2023 9:26	0:00:30	-4.44	174.58	333.39	-5.99	175.69	335.81	-141.65	2.35
210	12/4/2023 9:27	12/4/2023 9:27	0:00:30	-8.05	177.18	339.04	-9.59	178.31	341.48	-142.27	1.73
211	12/4/2023 9:30	12/4/2023 9:30	0:00:20	-17.20	-175.87	353.59	-18.20	-175.06	355.18	-143.37	0.63
212	12/4/2023 9:36	12/4/2023 9:39	0:03:10	-35.43	-157.53	381.90	-42.80	-145.59	392.18	-140.98	3.02
213	12/4/2023 9:48	12/4/2023 9:51	0:02:40	-51.58	-98.14	401.44	-49.54	-82.87	397.91	-142.18	1.82
214	12/4/2023 9:53	12/4/2023 9:53	0:00:30	-46.96	-73.39	393.85	-46.12	-70.98	392.52	-143.09	0.91
215	12/4/2023 9:54	12/4/2023 9:55	0:00:30	-44.27	-66.39	389.61	-43.27	-64.21	388.03	-141.78	2.22
216	12/4/2023 9:57	12/4/2023 9:58	0:01:10	-38.04	-55.00	379.62	-35.15	-50.92	374.85	-141.49	2.51
217	12/4/2023 10:04	12/4/2023 10:06	0:02:40	-19.81	-35.11	349.03	-11.75	-28.73	335.60	-141.47	2.53
218	12/4/2023 10:07	12/4/2023 10:08	0:01:10	-9.70	-27.21	332.25	-6.08	-24.59	326.44	-142.54	1.46
219	12/4/2023 10:09	12/4/2023 10:11	0:01:50	-4.01	-23.10	323.17	1.72	-19.05	314.42	-141.49	2.51
220	12/4/2023 10:11	12/4/2023 10:12	0:00:50	3.29	-17.94	312.12	5.90	-16.08	308.35	-139.40	4.60
221	12/4/2023 10:12	12/4/2023 10:13	0:00:20	7.46	-14.95	306.15	8.50	-14.20	304.71	-142.97	1.03
222	12/4/2023 10:14	12/4/2023 10:14	0:00:00	11.61	-11.90	300.51	11.61	-11.90	300.51	-143.43	0.57
223	12/4/2023 10:15	12/4/2023 10:16	0:01:00	14.70	-9.54	296.50	17.76	-7.10	292.71	-142.14	1.86
224	12/4/2023 10:18	12/4/2023 10:45	0:26:50	24.27	-1.47	285.28	30.68	123.04	285.77	-138.31	5.69
225	12/4/2023 10:45	12/4/2023 10:54	0:09:00	28.80	125.06	287.84	1.48	147.28	324.05	-140.45	3.55
226	12/4/2023 10:56	12/4/2023 10:58	0:01:40	-4.76	151.69	333.58	-9.91	155.42	341.67	-141.58	2.42
227	12/4/2023 11:01	12/4/2023 11:01	0:00:20	-17.51	161.27	353.78	-18.50	162.08	355.37	-143.26	0.74
228	12/4/2023 11:07	12/4/2023 11:09	0:01:40	-35.27	179.14	381.39	-39.34	-174.93	387.23	-140.90	3.10

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)
229	12/4/2023 11:09	12/4/2023 11:10	0:01:00	-40.49	-173.01	388.83	-42.67	-168.97	391.77	-143.36	0.64
230	12/4/2023 11:19	12/4/2023 11:21	0:02:40	-51.69	-123.62	401.59	-49.98	-108.16	398.55	-142.32	1.68
231	12/4/2023 11:22	12/4/2023 11:22	0:00:00	-49.42	-105.42	397.65	-49.42	-105.42	397.65	-143.99	0.01
232	12/4/2023 11:24	12/4/2023 11:24	0:00:30	-46.79	-96.00	393.55	-45.94	-93.60	392.22	-143.11	0.89
233	12/4/2023 11:25	12/4/2023 11:26	0:00:40	-44.06	-89.05	389.29	-42.71	-86.18	387.15	-141.58	2.42
234	12/4/2023 11:27	12/4/2023 11:27	0:00:00	-40.53	-82.12	383.67	-40.53	-82.12	383.67	-143.89	0.11
235	12/4/2023 11:28	12/4/2023 11:29	0:01:00	-37.39	-77.14	378.59	-34.88	-73.69	374.48	-141.85	2.15
236	12/4/2023 11:35	12/4/2023 11:37	0:02:30	-19.00	-57.55	347.82	-11.43	-51.61	335.24	-141.49	2.51
237	12/4/2023 11:38	12/4/2023 11:39	0:01:00	-9.38	-50.09	331.90	-6.28	-47.84	326.93	-143.01	0.99
238	12/4/2023 11:40	12/4/2023 11:43	0:03:00	-3.68	-45.99	322.84	5.70	-39.34	308.82	-137.65	6.35
239	12/4/2023 11:44	12/4/2023 11:44	0:00:10	8.30	-37.46	305.17	8.82	-37.08	304.46	-142.99	1.01
240	12/4/2023 11:45	12/4/2023 11:45	0:00:00	11.93	-34.77	300.27	11.93	-34.77	300.27	-143.86	0.14
241	12/4/2023 11:46	12/4/2023 11:47	0:00:50	15.01	-32.41	296.29	17.57	-30.37	293.14	-142.60	1.40
242	12/4/2023 11:49	12/4/2023 11:50	0:01:00	24.08	-24.76	285.67	27.00	-21.96	282.60	-142.15	1.85
243	12/4/2023 11:51	12/4/2023 12:25	0:34:50	29.38	-19.50	280.23	1.16	124.39	324.27	-138.77	5.23
244	12/4/2023 12:27	12/4/2023 12:29	0:01:50	-5.08	128.81	333.81	-10.74	132.92	342.72	-141.34	2.66
245	12/4/2023 12:31	12/4/2023 12:32	0:00:30	-17.32	138.00	353.21	-18.81	139.22	355.60	-143.21	0.79
246	12/4/2023 12:38	12/4/2023 12:39	0:01:40	-35.11	155.81	380.93	-39.19	161.72	386.81	-140.93	3.07
247	12/4/2023 12:40	12/4/2023 12:41	0:00:50	-40.72	164.28	388.94	-42.53	167.66	391.40	-143.43	0.57
248	12/4/2023 12:50	12/4/2023 12:51	0:01:10	-51.56	-144.13	401.25	-50.93	-137.29	400.08	-143.20	0.80
249	12/4/2023 12:52	12/4/2023 12:52	0:00:40	-50.52	-134.43	399.41	-49.87	-130.70	398.36	-142.13	1.87
250	12/4/2023 12:53	12/4/2023 12:53	0:00:00	-49.29	-127.98	397.46	-49.29	-127.98	397.46	-143.98	0.02
251	12/4/2023 12:55	12/4/2023 12:55	0:00:30	-46.62	-118.61	393.32	-45.75	-116.23	391.98	-143.13	0.87
252	12/4/2023 12:56	12/4/2023 12:57	0:00:30	-43.52	-110.98	388.50	-42.49	-108.86	386.88	-141.41	2.59
253	12/4/2023 12:58	12/4/2023 12:58	0:00:00	-40.29	-104.83	383.39	-40.29	-104.83	383.39	-143.75	0.25
254	12/4/2023 12:59	12/4/2023 13:00	0:00:50	-37.13	-99.89	378.29	-35.04	-97.01	374.88	-141.96	2.04
255	12/4/2023 13:06	12/4/2023 13:06	0:00:10	-18.20	-80.00	346.68	-17.70	-79.60	345.85	-143.88	0.12
256	12/4/2023 13:07	12/4/2023 13:08	0:01:50	-16.19	-78.39	343.34	-10.60	-74.11	334.13	-141.09	2.91
257	12/4/2023 13:09	12/4/2023 13:10	0:00:50	-8.54	-72.60	330.80	-5.96	-70.73	326.67	-143.36	0.64
258	12/4/2023 13:11	12/4/2023 13:14	0:03:10	-3.88	-69.25	323.41	6.02	-62.22	308.63	-138.27	5.73
259	12/4/2023 13:15	12/4/2023 13:15	0:00:10	8.62	-60.34	304.99	9.14	-59.96	304.28	-142.78	1.22
260	12/4/2023 13:17	12/4/2023 13:18	0:01:00	15.33	-55.27	296.15	18.39	-52.82	292.40	-143.07	0.93
261	12/4/2023 13:20	12/4/2023 13:21	0:01:10	23.89	-48.05	286.12	27.30	-44.78	282.53	-142.85	1.15
262	12/4/2023 13:22	12/4/2023 13:56	0:34:40	30.14	-41.79	279.73	0.83	101.50	324.43	-139.09	4.91
263	12/4/2023 13:57	12/4/2023 13:59	0:01:50	-1.25	102.97	327.58	-6.95	107.03	336.40	-141.58	2.42
264	12/4/2023 14:00	12/4/2023 14:00	0:00:20	-9.01	108.53	339.65	-10.03	109.28	341.27	-143.50	0.50
265	12/4/2023 14:02	12/4/2023 14:03	0:01:10	-15.62	113.53	350.19	-19.12	116.36	355.79	-143.51	0.49
266	12/4/2023 14:09	12/4/2023 14:10	0:01:40	-34.95	132.49	380.47	-39.04	138.37	386.42	-141.02	2.98
267	12/4/2023 14:11	12/4/2023 14:12	0:00:40	-40.95	141.58	389.09	-42.40	144.28	391.07	-143.47	0.53
268	12/4/2023 14:21	12/4/2023 14:22	0:01:20	-51.58	-167.61	401.37	-50.85	-159.80	400.06	-143.09	0.91
269	12/4/2023 14:23	12/4/2023 14:23	0:00:40	-50.43	-156.95	399.38	-49.75	-153.24	398.32	-141.95	2.05
270	12/4/2023 14:24	12/4/2023 14:24	0:00:00	-49.16	-150.53	397.41	-49.16	-150.53	397.41	-143.98	0.02
271	12/4/2023 14:25	12/4/2023 14:26	0:00:50	-46.72	-142.03	393.67	-45.25	-138.09	391.42	-143.15	0.85
272	12/4/2023 14:27	12/4/2023 14:28	0:00:30	-43.31	-133.65	388.40	-42.26	-131.55	386.77	-141.36	2.64
273	12/4/2023 14:29	12/4/2023 14:30	0:00:10	-38.49	-125.04	380.77	-38.09	-124.43	380.13	-143.81	0.19
274	12/4/2023 14:30	12/4/2023 14:31	0:00:50	-36.46	-122.05	377.49	-34.34	-119.23	374.03	-142.06	1.94
275	12/4/2023 14:38	12/4/2023 14:39	0:01:50	-15.88	-101.26	343.19	-10.28	-96.99	333.99	-141.40	2.60
276	12/4/2023 14:40	12/4/2023 14:41	0:00:40	-7.71	-95.11	329.84	-5.64	-93.62	326.55	-143.58	0.42
277	12/4/2023 14:42	12/4/2023 14:45	0:03:10	-3.56	-92.13	323.29	6.34	-85.11	308.55	-139.36	4.64
278	12/4/2023 14:45	12/4/2023 14:46	0:00:20	8.42	-83.60	305.64	9.46	-82.84	304.21	-142.58	1.42
279	12/4/2023 14:48	12/4/2023 14:49	0:01:00	15.64	-78.14	296.10	18.70	-75.68	292.36	-143.05	0.95
280	12/4/2023 14:50	12/4/2023 14:51	0:00:20	23.20	-71.79	287.17	24.19	-70.88	286.08	-143.11	0.89
281	12/4/2023 14:51	12/4/2023 14:52	0:00:30	26.14	-69.03	284.00	27.59	-67.60	282.51	-142.94	1.06
282	12/4/2023 14:53	12/4/2023 15:27	0:34:40	30.43	-64.60	279.71	0.51	78.61	324.46	-139.28	4.72
283	12/4/2023 15:28	12/4/2023 15:30	0:01:50	-1.05	79.72	326.82	-6.75	83.77	335.65	-141.00	3.00
284	12/4/2023 15:31	12/4/2023 15:31	0:00:00	-9.84	86.02	340.53	-9.84	86.02	340.53	-143.79	0.21
285	12/4/2023 15:32	12/4/2023 15:33	0:01:10	-13.41	88.70	346.23	-16.94	91.46	351.89	-143.83	0.17

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)
343	12/4/2023 20:32	12/4/2023 20:32	0:00:20	-41.61	137.22	417.66	-40.88	138.54	416.66	-141.89	2.11
344	12/4/2023 20:34	12/4/2023 20:35	0:01:40	-36.99	144.71	411.08	-32.76	150.23	404.59	-142.80	1.20
345	12/4/2023 20:42	12/4/2023 20:43	0:01:00	-14.71	167.15	374.01	-11.68	169.45	368.67	-141.93	2.07
346	12/4/2023 20:44	12/4/2023 20:49	0:04:30	-7.09	172.82	360.57	6.85	-177.26	336.52	-140.94	3.06
347	12/4/2023 20:50	12/4/2023 20:51	0:01:30	9.43	-175.39	332.25	14.04	-171.92	324.77	-142.69	1.31
348	12/4/2023 20:53	12/4/2023 20:53	0:00:10	19.61	-167.45	316.11	20.11	-167.03	315.35	-143.47	0.53
349	12/4/2023 20:55	12/4/2023 20:57	0:01:20	26.49	-161.22	305.97	30.28	-157.30	300.68	-141.47	2.53
350	12/4/2023 20:58	12/4/2023 21:08	0:10:50	33.02	-154.13	296.96	51.69	-101.86	272.20	-139.60	4.40
351	12/4/2023 21:09	12/4/2023 21:34	0:24:50	51.77	-97.70	271.65	-7.57	-8.17	340.17	-139.28	4.72
352	12/4/2023 21:37	12/4/2023 21:38	0:01:20	-16.73	-1.24	357.41	-20.70	2.04	365.09	-143.42	0.58
353	12/4/2023 21:44	12/4/2023 21:45	0:00:30	-37.10	19.77	397.17	-38.31	21.56	399.52	-142.10	1.90
354	12/4/2023 21:46	12/4/2023 21:47	0:01:30	-40.25	24.69	403.26	-43.47	30.80	409.46	-142.78	1.22
355	12/4/2023 21:56	12/4/2023 21:57	0:00:50	-51.39	79.48	427.92	-50.88	84.30	427.80	-143.78	0.22
356	12/4/2023 21:58	12/4/2023 21:59	0:00:40	-49.98	89.91	427.23	-49.23	93.52	426.61	-142.47	1.53
357	12/4/2023 22:01	12/4/2023 22:02	0:00:10	-44.77	107.42	421.76	-44.45	108.16	421.37	-143.92	0.08
358	12/4/2023 22:03	12/4/2023 22:03	0:00:20	-41.37	114.46	417.36	-40.63	115.77	416.35	-141.94	2.06
359	12/4/2023 22:05	12/4/2023 22:07	0:02:20	-36.72	121.90	410.73	-30.69	129.42	401.37	-142.49	1.51
360	12/4/2023 22:13	12/4/2023 22:14	0:01:10	-14.38	144.21	373.60	-10.84	146.89	367.37	-142.15	1.85
361	12/4/2023 22:15	12/4/2023 22:16	0:01:10	-8.80	148.39	363.77	-5.21	150.98	357.47	-142.96	1.04
362	12/4/2023 22:17	12/4/2023 22:20	0:03:30	-3.67	152.08	354.76	7.19	159.79	336.18	-140.90	3.10
363	12/4/2023 22:21	12/4/2023 22:22	0:01:20	10.28	162.05	331.08	14.38	165.14	324.47	-142.61	1.39
364	12/4/2023 22:26	12/4/2023 22:28	0:01:40	25.84	174.95	307.12	30.58	179.84	300.48	-141.19	2.81
365	12/4/2023 22:29	12/4/2023 22:40	0:10:40	33.76	-176.42	296.19	51.71	-124.38	272.18	-139.52	4.48
366	12/4/2023 22:40	12/4/2023 22:54	0:13:50	51.76	-120.22	271.65	25.92	-57.12	289.03	-139.34	4.66
367	12/4/2023 22:55	12/4/2023 23:05	0:10:30	24.45	-55.73	290.72	-7.91	-31.12	340.57	-139.61	4.39
368	12/4/2023 23:08	12/4/2023 23:09	0:01:20	-16.56	-24.57	356.87	-20.53	-21.30	364.56	-143.09	0.91
369	12/4/2023 23:16	12/4/2023 23:16	0:00:20	-37.37	-3.03	397.55	-38.17	-1.84	399.12	-142.94	1.06
370	12/4/2023 23:17	12/4/2023 23:19	0:02:00	-40.12	1.28	402.89	-44.34	9.53	411.05	-142.54	1.46
371	12/4/2023 23:27	12/4/2023 23:28	0:00:50	-51.34	56.92	427.97	-50.79	61.73	427.82	-143.49	0.51
372	12/4/2023 23:29	12/4/2023 23:30	0:00:30	-49.87	67.32	427.22	-49.29	70.02	426.75	-142.32	1.68
373	12/4/2023 23:33	12/4/2023 23:33	0:00:10	-44.56	84.71	421.62	-44.24	85.45	421.23	-143.89	0.11
374	12/4/2023 23:35	12/4/2023 23:35	0:00:20	-40.76	92.36	416.67	-40.01	93.64	415.63	-141.66	2.34
375	12/4/2023 23:36	12/4/2023 23:39	0:02:30	-36.45	99.08	410.48	-29.94	107.04	400.34	-142.16	1.84
376	12/4/2023 23:45	12/4/2023 23:46	0:01:00	-13.55	121.65	372.32	-10.51	123.94	366.97	-142.16	1.84
377	12/4/2023 23:46	12/4/2023 23:47	0:01:00	-7.96	125.81	362.47	-4.88	128.02	357.07	-142.73	1.27
378	12/4/2023 23:48	12/4/2023 23:51	0:03:20	-2.82	129.49	353.47	7.52	136.83	335.80	-140.60	3.40
379	12/4/2023 23:52	12/4/2023 23:54	0:01:30	10.10	138.72	331.54	14.71	142.21	324.10	-142.77	1.23
380	12/4/2023 23:57	12/4/2023 23:59	0:02:00	25.19	151.13	308.18	30.88	156.98	300.16	-140.87	3.13
381	12/5/2023 0:01	12/5/2023 0:11	0:10:10	34.93	161.88	294.72	51.70	-147.94	272.16	-139.43	4.57
382	12/5/2023 0:12	12/5/2023 0:26	0:13:50	51.75	-142.74	271.48	25.60	-80.01	289.12	-139.42	4.58
383	12/5/2023 0:26	12/5/2023 0:37	0:10:40	24.13	-78.63	290.83	-8.77	-53.69	341.84	-139.67	4.33
384	12/5/2023 0:39	12/5/2023 0:41	0:01:20	-16.89	-47.50	357.21	-20.86	-44.22	364.91	-143.00	1.00
385	12/5/2023 0:47	12/5/2023 0:47	0:00:00	-37.64	-25.84	397.86	-37.64	-25.84	397.86	-143.57	0.43
386	12/5/2023 0:48	12/5/2023 0:50	0:02:10	-39.99	-22.13	402.44	-44.56	-13.17	411.30	-142.47	1.53
387	12/5/2023 0:59	12/5/2023 1:00	0:00:50	-51.28	34.38	427.96	-50.71	39.17	427.78	-143.56	0.44
388	12/5/2023 1:01	12/5/2023 1:01	0:00:30	-49.75	44.73	427.15	-49.16	47.42	426.66	-142.21	1.79
389	12/5/2023 1:04	12/5/2023 1:04	0:00:00	-44.02	62.74	421.05	-44.02	62.74	421.05	-143.87	0.13
390	12/5/2023 1:06	12/5/2023 1:06	0:00:20	-40.51	69.59	416.45	-39.76	70.87	415.40	-141.94	2.06
391	12/5/2023 1:08	12/5/2023 1:09	0:01:10	-35.76	76.84	409.59	-32.77	80.64	405.00	-141.96	2.04
392	12/5/2023 1:10	12/5/2023 1:10	0:00:30	-31.00	82.69	402.20	-29.64	84.17	400.02	-143.22	0.78
393	12/5/2023 1:16	12/5/2023 1:17	0:00:50	-12.71	99.10	371.05	-10.17	100.99	366.58	-142.23	1.77
394	12/5/2023 1:18	12/5/2023 1:25	0:07:30	-8.13	102.49	362.99	15.05	119.27	323.76	-140.47	3.53
395	12/5/2023 1:28	12/5/2023 1:29	0:00:50	24.54	127.32	309.29	26.95	129.65	305.80	-140.94	3.06
396	12/5/2023 1:30	12/5/2023 1:31	0:01:00	28.38	131.10	303.77	31.18	134.13	299.88	-139.99	4.01
397	12/5/2023 1:32	12/5/2023 1:42	0:10:10	35.22	139.06	294.45	51.72	-170.46	271.97	-139.76	4.24
398	12/5/2023 1:43	12/5/2023 1:57	0:14:00	51.76	-166.29	271.42	25.28	-102.90	289.20	-139.49	4.51
399	12/5/2023 1:57	12/5/2023 2:08	0:10:40	23.81	-101.52	290.92	-9.11	-76.64	342.16	-139.64	4.36

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)
400	12/5/2023 2:11	12/5/2023 2:12	0:01:10	-17.23	-70.43	357.56	-20.70	-67.55	364.30	-142.92	1.08
401	12/5/2023 2:18	12/5/2023 2:18	0:00:00	-37.50	-49.22	397.36	-37.50	-49.22	397.36	-143.99	0.01
402	12/5/2023 2:19	12/5/2023 2:21	0:02:10	-39.87	-45.53	401.97	-44.45	-36.61	410.89	-142.41	1.59
403	12/5/2023 2:30	12/5/2023 2:31	0:01:00	-51.31	10.87	427.91	-50.61	16.61	427.71	-143.71	0.29
404	12/5/2023 2:32	12/5/2023 2:32	0:00:30	-49.62	22.15	427.04	-49.02	24.82	426.54	-142.20	1.80
405	12/5/2023 2:36	12/5/2023 2:36	0:00:10	-43.80	40.03	420.85	-43.47	40.75	420.43	-143.84	0.16
406	12/5/2023 2:37	12/5/2023 2:38	0:00:20	-39.88	47.47	415.69	-39.11	48.72	414.61	-141.99	2.01
407	12/5/2023 2:39	12/5/2023 2:40	0:01:10	-35.47	54.02	409.32	-32.47	57.80	404.70	-142.17	1.83
408	12/5/2023 2:41	12/5/2023 2:42	0:00:30	-30.24	60.33	401.17	-28.88	61.79	398.97	-143.25	0.75
409	12/5/2023 2:47	12/5/2023 2:48	0:00:50	-12.37	76.16	370.71	-9.83	78.05	366.24	-142.85	1.15
410	12/5/2023 2:49	12/5/2023 2:55	0:06:30	-7.79	79.54	362.65	12.32	93.99	328.42	-141.04	2.96
411	12/5/2023 2:56	12/5/2023 2:56	0:00:10	14.88	95.95	324.34	15.38	96.34	323.53	-143.90	0.10
412	12/5/2023 2:59	12/5/2023 3:02	0:02:50	23.88	103.52	310.57	31.95	111.81	299.16	-140.33	3.67
413	12/5/2023 3:03	12/5/2023 3:13	0:10:00	35.51	116.25	294.39	51.71	165.99	272.24	-140.19	3.81
414	12/5/2023 3:14	12/5/2023 3:39	0:25:10	51.75	171.20	271.54	-9.45	-99.58	342.55	-139.55	4.45
415	12/5/2023 3:42	12/5/2023 3:43	0:00:50	-17.56	-93.36	357.95	-20.04	-91.30	362.77	-142.83	1.17
416	12/5/2023 3:50	12/5/2023 3:51	0:00:50	-39.74	-68.94	401.52	-41.60	-65.68	405.16	-142.20	1.80
417	12/5/2023 3:52	12/5/2023 3:52	0:00:40	-43.01	-62.93	407.91	-44.34	-60.05	410.51	-143.33	0.67
418	12/5/2023 4:01	12/5/2023 4:01	0:00:00	-51.24	-11.68	427.87	-51.24	-11.68	427.87	-143.39	0.61
419	12/5/2023 4:02	12/5/2023 4:02	0:00:30	-50.92	-8.79	427.80	-50.51	-5.96	427.63	-143.85	0.15
420	12/5/2023 4:03	12/5/2023 4:04	0:00:30	-49.49	-0.45	426.93	-48.87	2.21	426.41	-142.32	1.68
421	12/5/2023 4:07	12/5/2023 4:07	0:00:10	-43.58	17.32	420.62	-43.24	18.03	420.20	-143.83	0.17
422	12/5/2023 4:09	12/5/2023 4:09	0:00:20	-39.62	24.70	415.41	-38.85	25.94	414.33	-142.20	1.80
423	12/5/2023 4:11	12/5/2023 4:12	0:01:00	-34.77	31.75	408.37	-32.17	34.94	404.37	-142.51	1.49
424	12/5/2023 4:13	12/5/2023 4:13	0:00:40	-29.94	37.46	400.83	-28.11	39.39	397.87	-143.09	0.91
425	12/5/2023 4:17	12/5/2023 4:24	0:06:40	-17.05	49.32	379.12	3.38	64.29	343.53	-141.87	2.13
426	12/5/2023 4:25	12/5/2023 4:27	0:01:50	6.49	66.50	338.29	12.15	70.66	328.96	-141.90	2.10
427	12/5/2023 4:30	12/5/2023 4:33	0:03:30	22.24	78.84	313.24	32.25	88.96	298.97	-140.18	3.82
428	12/5/2023 4:35	12/5/2023 4:45	0:10:10	35.36	92.86	294.79	51.73	143.48	272.20	-140.34	3.66
429	12/5/2023 4:46	12/5/2023 5:11	0:25:10	51.73	148.68	271.51	-9.79	-122.53	342.86	-139.32	4.68
430	12/5/2023 5:13	12/5/2023 5:14	0:00:30	-17.89	-116.28	358.26	-19.38	-115.05	361.15	-143.07	0.93
431	12/5/2023 5:20	12/5/2023 5:20	0:00:10	-36.82	-96.60	395.51	-37.23	-96.01	396.31	-143.77	0.23
432	12/5/2023 5:21	12/5/2023 5:22	0:00:40	-39.61	-92.35	400.97	-41.12	-89.76	403.91	-141.79	2.21
433	12/5/2023 5:23	12/5/2023 5:24	0:00:30	-43.24	-85.65	408.06	-44.24	-83.49	410.01	-143.28	0.72
434	12/5/2023 5:33	12/5/2023 5:33	0:00:00	-51.17	-34.18	428.54	-51.17	-34.18	428.54	-143.43	0.57
435	12/5/2023 5:33	12/5/2023 5:33	0:00:20	-50.83	-31.30	428.70	-50.55	-29.41	428.76	-143.86	0.14
436	12/5/2023 5:35	12/5/2023 5:35	0:00:30	-49.34	-22.97	428.74	-48.71	-20.33	428.62	-142.47	1.53
437	12/5/2023 5:38	12/5/2023 5:38	0:00:00	-42.96	-4.59	426.59	-42.96	-4.59	426.59	-143.74	0.26
438	12/5/2023 5:39	12/5/2023 5:39	0:00:00	-41.19	-1.18	425.83	-41.19	-1.18	425.83	-143.74	0.26
439	12/5/2023 5:40	12/5/2023 5:40	0:00:00	-38.91	2.66	424.86	-38.91	2.66	424.86	-143.54	0.46
440	12/5/2023 5:44	12/5/2023 5:45	0:00:40	-29.09	15.18	420.71	-27.25	17.07	419.96	-143.35	0.65
441	12/5/2023 5:49	12/5/2023 5:50	0:01:20	-16.16	26.84	415.86	-12.17	29.92	414.60	-142.63	1.37
442	12/5/2023 5:51	12/5/2023 5:52	0:00:40	-8.64	32.53	413.61	-6.61	34.00	413.10	-143.13	0.87
443	12/5/2023 5:53	12/5/2023 5:53	0:00:30	-3.56	36.18	412.40	-2.03	37.26	412.09	-143.04	0.96
444	12/5/2023 5:55	12/5/2023 5:55	0:00:00	2.05	40.14	411.38	2.05	40.14	411.38	-143.70	0.30
445	12/5/2023 6:03	12/5/2023 6:03	0:00:10	25.90	58.98	410.64	26.37	59.44	410.68	-143.23	0.77
446	12/5/2023 6:04	12/5/2023 6:04	0:00:20	28.69	61.78	410.89	29.61	62.75	410.99	-142.88	1.12
447	12/5/2023 6:11	12/5/2023 6:12	0:00:40	45.93	88.87	413.37	47.06	92.08	413.55	-143.74	0.26
448	12/5/2023 6:12	12/5/2023 6:12	0:00:00	48.33	96.29	413.76	48.33	96.29	413.76	-143.81	0.19
449	12/5/2023 6:15	12/5/2023 6:15	0:00:00	50.88	109.11	414.16	50.88	109.11	414.16	-143.92	0.08
450	12/5/2023 6:20	12/5/2023 6:20	0:00:20	50.27	140.58	413.77	49.93	142.44	413.69	-143.67	0.33
451	12/5/2023 6:21	12/5/2023 6:21	0:00:10	49.16	146.07	413.50	48.94	146.96	413.45	-143.82	0.18
452	12/5/2023 6:24	12/5/2023 6:24	0:00:20	44.29	160.78	412.41	43.63	162.24	412.27	-143.17	0.83
453	12/5/2023 6:31	12/5/2023 6:32	0:01:10	28.55	-176.02	409.68	25.28	-172.78	409.33	-142.61	1.39
454	12/5/2023 6:33	12/5/2023 6:40	0:07:20	21.45	-169.30	409.03	-0.67	-152.60	410.31	-142.36	1.64
455	12/5/2023 6:41	12/5/2023 6:42	0:00:50	-2.71	-151.16	410.71	-5.26	-149.35	411.27	-143.14	0.86
456	12/5/2023 6:43	12/5/2023 6:43	0:00:20	-8.30	-147.16	412.03	-9.32	-146.42	412.30	-143.47	0.53

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)
457	12/5/2023 6:54	12/5/2023 6:55	0:00:40	-39.46	-116.21	424.16	-40.97	-113.64	424.86	-142.54	1.46
458	12/5/2023 6:56	12/5/2023 6:56	0:00:20	-43.45	-108.84	426.02	-44.11	-107.40	426.33	-143.57	0.43
459	12/5/2023 7:05	12/5/2023 7:05	0:00:10	-51.24	-58.03	429.86	-51.13	-57.06	429.82	-143.47	0.53
460	12/5/2023 7:06	12/5/2023 7:06	0:00:20	-50.77	-54.18	429.69	-50.48	-52.29	429.59	-143.89	0.11
461	12/5/2023 7:07	12/5/2023 7:08	0:00:40	-49.43	-46.77	429.19	-48.57	-43.24	428.85	-142.68	1.32
462	12/5/2023 7:11	12/5/2023 7:11	0:00:10	-43.08	-28.30	426.59	-42.73	-27.60	426.44	-143.68	0.32
463	12/5/2023 7:12	12/5/2023 7:12	0:00:00	-40.94	-24.22	425.68	-40.94	-24.22	425.68	-143.32	0.68
464	12/5/2023 7:13	12/5/2023 7:13	0:00:00	-38.64	-20.42	424.70	-38.64	-20.42	424.70	-143.81	0.19
465	12/5/2023 7:17	12/5/2023 7:18	0:00:40	-28.77	-8.00	420.53	-26.92	-6.12	419.79	-143.38	0.62
466	12/5/2023 7:21	12/5/2023 7:23	0:01:30	-15.80	3.59	415.71	-11.30	7.03	414.32	-142.61	1.39
467	12/5/2023 7:24	12/5/2023 7:25	0:00:50	-8.78	8.89	413.63	-6.24	10.72	412.99	-142.92	1.08
468	12/5/2023 7:26	12/5/2023 7:26	0:00:20	-3.18	12.89	412.31	-2.16	13.62	412.10	-143.52	0.48
469	12/5/2023 7:27	12/5/2023 7:27	0:00:10	1.92	16.49	411.38	2.43	16.85	411.31	-143.70	0.30
470	12/5/2023 7:34	12/5/2023 7:34	0:00:00	22.45	32.22	410.42	22.45	32.22	410.42	-143.95	0.05
471	12/5/2023 7:35	12/5/2023 7:36	0:01:00	26.26	35.76	410.68	29.05	38.57	410.94	-142.69	1.31
472	12/5/2023 7:45	12/5/2023 7:45	0:00:00	48.30	72.50	413.78	48.30	72.50	413.78	-143.93	0.07
473	12/5/2023 7:47	12/5/2023 7:47	0:00:00	50.88	85.31	414.17	50.88	85.31	414.17	-143.58	0.42
474	12/5/2023 7:53	12/5/2023 7:53	0:00:10	50.18	117.73	413.75	50.00	118.66	413.71	-143.66	0.34
475	12/5/2023 7:54	12/5/2023 7:54	0:00:10	49.03	123.19	413.48	48.81	124.08	413.42	-143.78	0.22
476	12/5/2023 7:57	12/5/2023 7:57	0:00:20	44.07	137.79	412.37	43.40	139.24	412.23	-143.19	0.81
477	12/5/2023 8:04	12/5/2023 8:05	0:01:10	27.76	161.27	409.58	24.47	164.46	409.24	-142.62	1.38
478	12/5/2023 8:06	12/5/2023 8:13	0:07:10	21.10	167.47	409.00	-0.54	-176.25	410.27	-142.13	1.87
479	12/5/2023 8:14	12/5/2023 8:15	0:00:30	-3.60	-174.08	410.87	-5.13	-173.00	411.21	-143.51	0.49
480	12/5/2023 8:16	12/5/2023 8:16	0:00:10	-8.68	-170.44	412.10	-9.19	-170.07	412.24	-143.77	0.23
481	12/5/2023 8:27	12/5/2023 8:27	0:00:40	-39.36	-139.92	424.10	-40.88	-137.36	424.80	-142.38	1.62
482	12/5/2023 8:29	12/5/2023 8:29	0:00:20	-43.37	-132.58	425.96	-44.03	-131.14	426.27	-143.61	0.39
483	12/5/2023 8:38	12/5/2023 8:38	0:00:10	-51.26	-81.83	429.85	-51.16	-80.86	429.82	-143.31	0.69
484	12/5/2023 8:39	12/5/2023 8:39	0:00:30	-50.80	-77.98	429.69	-50.37	-75.14	429.53	-143.89	0.11
485	12/5/2023 8:40	12/5/2023 8:41	0:00:40	-49.28	-69.65	429.12	-48.40	-66.15	428.77	-142.52	1.48
486	12/5/2023 8:44	12/5/2023 8:44	0:00:00	-42.47	-50.64	426.32	-42.47	-50.64	426.32	-143.66	0.34
487	12/5/2023 8:45	12/5/2023 8:45	0:00:10	-40.66	-47.29	425.54	-40.28	-46.64	425.38	-143.02	0.98
488	12/5/2023 8:47	12/5/2023 8:48	0:00:10	-34.64	-38.33	422.97	-34.21	-37.79	422.79	-143.76	0.24
489	12/5/2023 8:50	12/5/2023 8:50	0:00:40	-28.42	-31.20	420.38	-26.57	-29.33	419.63	-143.41	0.59
490	12/5/2023 8:54	12/5/2023 8:57	0:03:00	-15.43	-19.68	415.58	-6.36	-12.93	413.01	-142.55	1.45
491	12/5/2023 8:58	12/5/2023 8:59	0:00:10	-2.80	-10.39	412.22	-2.29	-10.03	412.12	-143.85	0.15
492	12/5/2023 9:00	12/5/2023 9:00	0:00:20	1.79	-7.16	411.40	2.81	-6.44	411.25	-143.36	0.64
493	12/5/2023 9:08	12/5/2023 9:09	0:00:50	26.62	12.54	410.70	28.93	14.89	410.92	-142.52	1.48
494	12/5/2023 9:18	12/5/2023 9:18	0:00:00	48.48	49.59	413.78	48.48	49.59	413.78	-143.84	0.16
495	12/5/2023 9:20	12/5/2023 9:20	0:00:00	50.85	61.51	414.14	50.85	61.51	414.14	-143.72	0.28
496	12/5/2023 9:26	12/5/2023 9:26	0:00:20	50.22	93.94	413.72	49.87	95.79	413.64	-143.66	0.34
497	12/5/2023 9:27	12/5/2023 9:27	0:00:20	49.08	99.41	413.44	48.64	101.18	413.34	-143.78	0.22
498	12/5/2023 9:30	12/5/2023 9:30	0:00:20	43.82	114.79	412.27	43.15	116.22	412.13	-143.22	0.78
499	12/5/2023 9:37	12/5/2023 9:38	0:01:00	26.95	138.53	409.45	24.11	141.23	409.17	-142.56	1.44
500	12/5/2023 9:39	12/5/2023 9:46	0:07:10	21.22	143.81	408.96	-0.41	160.11	410.19	-142.14	1.86
501	12/5/2023 9:47	12/5/2023 9:47	0:00:10	-4.49	162.99	411.01	-5.00	163.35	411.13	-143.75	0.25
502	12/5/2023 9:52	12/5/2023 9:52	0:00:00	-20.03	174.81	415.72	-20.03	174.81	415.72	-143.97	0.03
503	12/5/2023 9:59	12/5/2023 10:00	0:00:50	-39.27	-163.64	423.96	-41.16	-160.43	424.83	-142.60	1.40
504	12/5/2023 10:01	12/5/2023 10:02	0:00:20	-43.28	-156.31	425.82	-43.95	-154.88	426.13	-143.60	0.40
505	12/5/2023 10:11	12/5/2023 10:11	0:00:20	-51.29	-105.63	429.75	-51.08	-103.69	429.68	-143.56	0.44
506	12/5/2023 10:11	12/5/2023 10:12	0:00:20	-50.70	-100.82	429.54	-50.41	-98.93	429.43	-143.90	0.10
507	12/5/2023 10:13	12/5/2023 10:13	0:00:30	-49.12	-92.54	428.95	-48.46	-89.91	428.69	-142.44	1.56
508	12/5/2023 10:17	12/5/2023 10:17	0:00:00	-42.20	-73.68	426.11	-42.20	-73.68	426.11	-143.71	0.29
509	12/5/2023 10:18	12/5/2023 10:18	0:00:10	-40.37	-70.36	425.33	-39.99	-69.71	425.17	-143.02	0.98
510	12/5/2023 10:20	12/5/2023 10:21	0:00:40	-35.16	-62.57	423.11	-33.45	-60.40	422.39	-143.27	0.73
511	12/5/2023 10:23	12/5/2023 10:23	0:00:50	-28.07	-54.40	420.16	-25.74	-52.09	419.23	-143.46	0.54
512	12/5/2023 10:27	12/5/2023 10:30	0:02:50	-15.05	-42.94	415.39	-6.49	-36.57	412.99	-142.38	1.62
513	12/5/2023 10:31	12/5/2023 10:31	0:00:00	-2.41	-33.68	412.10	-2.41	-33.68	412.10	-143.88	0.12

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)
571	12/5/2023 14:49	12/5/2023 14:49	0:00:10	-51.15	-175.09	429.95	-51.04	-174.12	429.92	-143.50	0.50
572	12/5/2023 14:50	12/5/2023 14:50	0:00:20	-50.51	-170.31	429.73	-50.20	-168.44	429.62	-143.91	0.09
573	12/5/2023 14:51	12/5/2023 14:52	0:00:40	-48.85	-162.11	429.11	-47.91	-158.67	428.75	-142.65	1.35
574	12/5/2023 14:55	12/5/2023 14:55	0:00:00	-41.39	-142.84	426.06	-41.39	-142.84	426.06	-143.90	0.10
575	12/5/2023 14:56	12/5/2023 14:57	0:00:20	-39.12	-138.98	425.10	-38.33	-137.76	424.77	-142.47	1.53
576	12/5/2023 14:57	12/5/2023 14:57	0:00:00	-37.13	-135.97	424.26	-37.13	-135.97	424.26	-143.89	0.11
577	12/5/2023 14:59	12/5/2023 15:00	0:01:00	-33.34	-130.95	422.65	-30.69	-127.87	421.55	-141.71	2.29
578	12/5/2023 15:01	12/5/2023 15:02	0:01:00	-27.02	-124.03	420.06	-24.20	-121.33	418.95	-143.31	0.69
579	12/5/2023 15:04	12/5/2023 15:05	0:00:20	-17.90	-115.89	416.66	-16.91	-115.09	416.32	-143.65	0.35
580	12/5/2023 15:06	12/5/2023 15:08	0:02:10	-12.92	-111.99	415.05	-6.36	-107.17	413.27	-141.34	2.66
581	12/5/2023 15:09	12/5/2023 15:10	0:00:30	-3.30	-105.00	412.58	-1.77	-103.91	412.28	-143.43	0.57
582	12/5/2023 15:12	12/5/2023 15:13	0:00:30	6.90	-97.78	411.00	8.42	-96.68	410.85	-141.88	2.12
583	12/5/2023 15:18	12/5/2023 15:20	0:02:10	24.25	-83.95	410.74	30.30	-77.88	411.26	-140.82	3.18
584	12/5/2023 15:22	12/5/2023 15:22	0:00:00	35.13	-72.10	411.85	35.13	-72.10	411.85	-143.97	0.03
585	12/5/2023 15:29	12/5/2023 15:29	0:00:00	48.47	-44.65	413.92	48.47	-44.65	413.92	-143.69	0.31
586	12/5/2023 15:37	12/5/2023 15:37	0:00:20	49.87	1.55	413.69	49.49	3.38	413.59	-143.66	0.34
587	12/5/2023 15:38	12/5/2023 15:38	0:00:10	48.40	7.80	413.33	48.17	8.67	413.27	-143.81	0.19
588	12/5/2023 15:41	12/5/2023 15:41	0:00:20	42.80	22.68	412.05	42.09	24.07	411.90	-143.38	0.62
589	12/5/2023 15:48	12/5/2023 15:49	0:00:50	24.10	46.99	409.08	21.70	49.14	408.90	-142.61	1.39
590	12/5/2023 15:50	12/5/2023 15:53	0:02:50	18.77	51.63	408.75	10.28	58.22	408.82	-142.11	1.89
591	12/5/2023 15:54	12/5/2023 15:57	0:03:10	8.76	59.33	408.92	-0.93	66.22	410.17	-142.72	1.28
592	12/5/2023 16:04	12/5/2023 16:04	0:00:00	-21.98	82.24	416.41	-21.98	82.24	416.41	-143.80	0.20
593	12/5/2023 16:11	12/5/2023 16:11	0:00:10	-40.42	104.03	424.58	-40.79	104.68	424.75	-143.72	0.28
594	12/5/2023 16:22	12/5/2023 16:22	0:00:20	-51.18	161.10	430.03	-50.96	163.03	429.95	-143.49	0.51
595	12/5/2023 16:23	12/5/2023 16:23	0:00:20	-50.40	166.83	429.77	-50.07	168.69	429.65	-143.92	0.08
596	12/5/2023 16:24	12/5/2023 16:25	0:00:40	-48.68	174.98	429.13	-47.73	178.39	428.76	-142.60	1.40
597	12/5/2023 16:28	12/5/2023 16:28	0:00:00	-41.11	-165.91	426.06	-41.11	-165.91	426.06	-143.92	0.08
598	12/5/2023 16:29	12/5/2023 16:30	0:00:50	-38.83	-162.08	425.09	-36.83	-159.09	424.25	-142.23	1.77
599	12/5/2023 16:32	12/5/2023 16:33	0:01:00	-32.58	-153.60	422.46	-29.90	-150.57	421.35	-141.86	2.14
600	12/5/2023 16:34	12/5/2023 16:35	0:01:10	-26.68	-147.25	420.05	-23.37	-144.13	418.76	-143.09	0.91
601	12/5/2023 16:37	12/5/2023 16:37	0:00:30	-18.02	-139.56	416.83	-16.54	-138.36	416.33	-143.52	0.48
602	12/5/2023 16:39	12/5/2023 16:41	0:02:10	-12.55	-135.27	415.07	-5.98	-130.46	413.30	-141.99	2.01
603	12/5/2023 16:42	12/5/2023 16:42	0:00:40	-3.43	-128.65	412.73	-1.39	-127.21	412.32	-143.16	0.84
604	12/5/2023 16:45	12/5/2023 16:46	0:00:20	7.27	-121.07	411.06	8.29	-120.33	410.97	-141.96	2.04
605	12/5/2023 16:51	12/5/2023 16:53	0:02:30	24.13	-107.62	410.80	31.09	-100.57	411.41	-141.23	2.77
606	12/5/2023 16:55	12/5/2023 16:55	0:00:20	35.02	-95.81	411.89	35.86	-94.69	412.00	-143.33	0.67
607	12/5/2023 17:01	12/5/2023 17:02	0:00:10	48.41	-68.44	413.90	48.64	-67.57	413.93	-143.78	0.22
608	12/5/2023 17:10	12/5/2023 17:10	0:00:20	49.73	-21.33	413.58	49.34	-19.52	413.48	-143.66	0.34
609	12/5/2023 17:11	12/5/2023 17:11	0:00:20	48.47	-15.98	413.26	47.99	-14.26	413.14	-143.79	0.21
610	12/5/2023 17:14	12/5/2023 17:14	0:00:10	42.18	0.33	411.82	41.83	1.01	411.74	-143.44	0.56
611	12/5/2023 17:21	12/5/2023 17:22	0:00:50	23.27	24.19	408.88	20.85	26.32	408.72	-142.65	1.35
612	12/5/2023 17:23	12/5/2023 17:26	0:02:50	18.40	28.37	408.60	9.90	34.93	408.71	-142.30	1.70
613	12/5/2023 17:27	12/5/2023 17:29	0:02:40	7.37	36.78	408.90	-0.79	42.57	410.02	-142.77	1.23
614	12/5/2023 17:37	12/5/2023 17:37	0:00:10	-22.34	58.99	416.43	-22.82	59.42	416.62	-143.64	0.36
615	12/5/2023 17:43	12/5/2023 17:44	0:00:10	-40.32	80.30	424.42	-40.70	80.95	424.60	-143.64	0.36
616	12/5/2023 17:54	12/5/2023 17:55	0:00:20	-51.10	138.27	429.91	-50.86	140.19	429.84	-143.53	0.47
617	12/5/2023 17:55	12/5/2023 17:56	0:00:20	-50.28	143.97	429.64	-49.95	145.82	429.52	-143.93	0.07
618	12/5/2023 17:57	12/5/2023 17:58	0:00:40	-48.51	152.06	428.99	-47.54	155.46	428.61	-142.54	1.46
619	12/5/2023 18:01	12/5/2023 18:01	0:00:00	-40.84	171.02	425.89	-40.84	171.02	425.89	-143.94	0.06
620	12/5/2023 18:02	12/5/2023 18:03	0:00:50	-38.54	174.82	424.92	-36.52	177.78	424.07	-141.78	2.22
621	12/5/2023 18:05	12/5/2023 18:06	0:01:00	-31.81	-176.26	422.10	-29.11	-173.28	420.99	-142.06	1.94
622	12/5/2023 18:07	12/5/2023 18:08	0:01:20	-26.33	-170.47	419.89	-22.53	-166.94	418.43	-142.86	1.14
623	12/5/2023 18:10	12/5/2023 18:10	0:00:30	-18.15	-163.22	416.86	-16.67	-162.02	416.36	-143.20	0.80
624	12/5/2023 18:12	12/5/2023 18:14	0:02:00	-11.67	-158.17	414.80	-5.60	-153.75	413.22	-142.67	1.33
625	12/5/2023 18:14	12/5/2023 18:15	0:00:50	-4.07	-152.66	412.87	-1.52	-150.86	412.35	-142.83	1.17
626	12/5/2023 18:18	12/5/2023 18:18	0:00:20	7.65	-144.35	411.04	8.67	-143.62	410.95	-142.22	1.78
627	12/5/2023 18:24	12/5/2023 18:26	0:02:30	24.49	-130.86	410.84	31.42	-123.76	411.46	-141.52	2.48

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)
685	12/5/2023 22:40	12/5/2023 22:40	0:00:00	-39.99	101.80	425.40	-39.99	101.80	425.40	-143.97	0.03
686	12/5/2023 22:41	12/5/2023 22:42	0:00:50	-37.24	106.08	424.23	-35.16	108.94	423.35	-142.06	1.94
687	12/5/2023 22:44	12/5/2023 22:44	0:00:30	-29.90	115.19	421.16	-28.53	116.64	420.60	-142.95	1.05
688	12/5/2023 22:45	12/5/2023 22:48	0:02:10	-24.80	120.31	419.13	-18.52	125.80	416.82	-142.19	1.81
689	12/5/2023 22:48	12/5/2023 22:49	0:00:30	-16.54	127.40	416.15	-15.05	128.57	415.67	-143.19	0.81
690	12/5/2023 22:50	12/5/2023 22:51	0:01:00	-10.54	131.99	414.32	-7.50	134.21	413.52	-142.16	1.84
691	12/5/2023 22:52	12/5/2023 22:54	0:01:20	-4.45	136.39	412.80	-0.37	139.27	411.99	-142.20	1.80
692	12/5/2023 22:55	12/5/2023 22:55	0:00:30	2.69	141.43	411.49	4.22	142.51	411.28	-142.39	1.61
693	12/5/2023 22:57	12/5/2023 22:57	0:00:20	8.80	145.80	410.79	9.81	146.54	410.72	-143.14	0.86
694	12/5/2023 23:02	12/5/2023 23:05	0:03:00	26.03	159.93	410.83	34.17	168.85	411.70	-141.29	2.71
695	12/5/2023 23:12	12/5/2023 23:12	0:00:00	48.65	-161.80	413.91	48.65	-161.80	413.91	-143.60	0.40
696	12/5/2023 23:13	12/5/2023 23:13	0:00:00	49.88	-156.42	414.09	49.88	-156.42	414.09	-143.73	0.27
697	12/5/2023 23:21	12/5/2023 23:21	0:00:20	49.34	-113.75	413.52	48.92	-111.97	413.41	-143.66	0.34
698	12/5/2023 23:22	12/5/2023 23:22	0:00:20	47.74	-107.65	413.13	47.22	-105.99	413.01	-143.78	0.22
699	12/5/2023 23:25	12/5/2023 23:26	0:00:10	41.09	-91.88	411.66	40.72	-91.22	411.58	-143.66	0.34
700	12/5/2023 23:33	12/5/2023 23:34	0:01:00	20.85	-67.92	408.83	17.91	-65.47	408.71	-142.96	1.04
701	12/5/2023 23:35	12/5/2023 23:38	0:03:40	16.42	-64.27	408.69	5.33	-56.00	409.25	-143.09	0.91
702	12/5/2023 23:39	12/5/2023 23:40	0:01:00	2.27	-53.83	409.66	-0.79	-51.67	410.17	-143.60	0.40
703	12/5/2023 23:46	12/5/2023 23:46	0:00:00	-18.44	-38.56	415.10	-18.44	-38.56	415.10	-143.90	0.10
704	12/5/2023 23:56	12/5/2023 23:56	0:00:10	-43.87	-7.10	426.23	-44.20	-6.37	426.38	-143.90	0.10
705	12/6/2023 0:05	12/6/2023 0:06	0:00:20	-50.99	44.99	429.90	-50.73	46.90	429.81	-143.52	0.48
706	12/6/2023 0:07	12/6/2023 0:07	0:00:10	-49.77	52.49	429.46	-49.58	53.40	429.39	-143.94	0.06
707	12/6/2023 0:08	12/6/2023 0:09	0:00:40	-48.04	59.53	428.79	-47.01	62.86	428.38	-142.63	1.37
708	12/6/2023 0:12	12/6/2023 0:12	0:00:00	-39.71	78.71	425.33	-39.71	78.71	425.33	-143.99	0.01
709	12/6/2023 0:14	12/6/2023 0:14	0:00:50	-36.93	82.96	424.14	-34.85	85.79	423.25	-142.22	1.78
710	12/6/2023 0:17	12/6/2023 0:17	0:00:10	-28.65	92.96	420.66	-28.19	93.43	420.47	-143.45	0.55
711	12/6/2023 0:18	12/6/2023 0:20	0:02:00	-23.97	97.52	418.79	-18.15	102.54	416.66	-142.24	1.76
712	12/6/2023 0:21	12/6/2023 0:22	0:00:20	-15.68	104.52	415.83	-14.68	105.30	415.51	-142.98	1.02
713	12/6/2023 0:23	12/6/2023 0:24	0:00:50	-10.16	108.71	414.16	-7.63	110.55	413.48	-142.62	1.38
714	12/6/2023 0:25	12/6/2023 0:27	0:01:30	-4.07	113.10	412.64	0.52	116.34	411.75	-142.19	1.81
715	12/6/2023 0:27	12/6/2023 0:28	0:00:50	2.05	117.42	411.50	4.60	119.22	411.13	-141.41	2.59
716	12/6/2023 0:29	12/6/2023 0:30	0:00:30	8.67	122.14	410.70	10.19	123.25	410.58	-143.48	0.52
717	12/6/2023 0:35	12/6/2023 0:36	0:00:40	26.85	137.17	410.75	28.70	139.05	410.92	-143.54	0.46
718	12/6/2023 0:37	12/6/2023 0:38	0:01:10	30.98	141.50	411.15	34.06	145.16	411.52	-142.09	1.91
719	12/6/2023 0:45	12/6/2023 0:45	0:00:10	48.59	174.42	413.71	48.82	175.29	413.75	-143.64	0.36
720	12/6/2023 0:46	12/6/2023 0:46	0:00:00	49.83	179.79	413.90	49.83	179.79	413.90	-143.86	0.14
721	12/6/2023 0:53	12/6/2023 0:54	0:00:30	49.39	-137.53	413.37	48.75	-134.86	413.22	-143.66	0.34
722	12/6/2023 0:55	12/6/2023 0:55	0:00:20	47.54	-130.58	412.93	47.01	-128.93	412.81	-143.78	0.22
723	12/6/2023 0:58	12/6/2023 0:58	0:00:10	40.81	-114.94	411.48	40.44	-114.29	411.41	-143.72	0.28
724	12/6/2023 1:06	12/6/2023 1:11	0:04:50	20.00	-90.75	408.75	5.45	-79.65	409.24	-143.08	0.92
725	12/6/2023 1:12	12/6/2023 1:13	0:00:30	0.86	-76.40	409.88	-0.67	-75.32	410.15	-143.87	0.13
726	12/6/2023 1:29	12/6/2023 1:29	0:00:20	-43.79	-30.84	426.18	-44.44	-29.38	426.49	-143.86	0.14
727	12/6/2023 1:38	12/6/2023 1:39	0:00:20	-50.90	22.15	429.86	-50.63	24.06	429.76	-143.47	0.53
728	12/6/2023 1:40	12/6/2023 1:40	0:00:10	-49.62	29.62	429.39	-49.43	30.52	429.32	-143.93	0.07
729	12/6/2023 1:41	12/6/2023 1:42	0:00:40	-47.85	36.61	428.71	-46.80	39.91	428.29	-142.68	1.32
730	12/6/2023 1:47	12/6/2023 1:47	0:00:50	-36.21	60.41	423.82	-34.10	63.19	422.92	-142.40	1.60
731	12/6/2023 1:50	12/6/2023 1:50	0:00:00	-27.84	70.23	420.32	-27.84	70.23	420.32	-143.72	0.28
732	12/6/2023 1:51	12/6/2023 1:53	0:01:50	-23.13	74.73	418.46	-17.78	79.29	416.52	-142.38	1.62
733	12/6/2023 1:54	12/6/2023 1:55	0:00:20	-14.80	81.65	415.53	-13.80	82.42	415.21	-143.00	1.00
734	12/6/2023 1:56	12/6/2023 1:57	0:01:10	-10.79	84.68	414.31	-7.25	87.27	413.36	-142.69	1.31
735	12/6/2023 1:58	12/6/2023 2:01	0:03:00	-4.20	89.45	412.65	4.99	95.94	411.07	-142.13	1.87
736	12/6/2023 2:02	12/6/2023 2:02	0:00:20	9.05	98.86	410.66	10.06	99.60	410.58	-143.66	0.34
737	12/6/2023 2:08	12/6/2023 2:09	0:00:20	27.67	114.42	410.86	28.59	115.37	410.95	-143.75	0.25
738	12/6/2023 2:10	12/6/2023 2:11	0:00:40	31.76	118.84	411.29	33.52	120.93	411.51	-142.58	1.42
739	12/6/2023 2:18	12/6/2023 2:18	0:00:10	48.53	150.65	413.81	48.76	151.52	413.84	-143.61	0.39
740	12/6/2023 2:26	12/6/2023 2:27	0:00:30	49.24	-160.42	413.45	48.58	-157.77	413.29	-143.66	0.34
741	12/6/2023 2:28	12/6/2023 2:28	0:00:20	47.35	-153.51	413.00	46.80	-151.87	412.87	-143.78	0.22

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)
742	12/6/2023 2:31	12/6/2023 2:31	0:00:10	40.53	-138.01	411.53	40.15	-137.36	411.46	-143.80	0.20
743	12/6/2023 2:39	12/6/2023 2:41	0:01:30	19.14	-113.59	408.80	14.68	-110.02	408.75	-143.12	0.88
744	12/6/2023 2:42	12/6/2023 2:44	0:02:00	11.66	-107.73	408.83	5.58	-103.30	409.31	-143.43	0.57
745	12/6/2023 2:52	12/6/2023 2:52	0:00:10	-18.69	-85.48	415.30	-19.18	-85.07	415.48	-143.63	0.37
746	12/6/2023 3:01	12/6/2023 3:02	0:00:20	-43.70	-54.58	426.23	-44.36	-53.12	426.54	-143.82	0.18
747	12/6/2023 3:11	12/6/2023 3:11	0:00:10	-50.80	-0.70	429.89	-50.66	0.26	429.84	-143.50	0.50
748	12/6/2023 3:12	12/6/2023 3:13	0:00:20	-49.67	5.83	429.47	-49.27	7.63	429.32	-143.93	0.07
749	12/6/2023 3:14	12/6/2023 3:14	0:00:40	-47.66	13.68	428.69	-46.59	16.95	428.25	-142.64	1.36
750	12/6/2023 3:18	12/6/2023 3:18	0:00:00	-38.73	33.15	424.94	-38.73	33.15	424.94	-143.99	0.01
751	12/6/2023 3:19	12/6/2023 3:20	0:00:50	-35.90	37.27	423.72	-33.77	40.03	422.82	-142.58	1.42
752	12/6/2023 3:24	12/6/2023 3:26	0:01:30	-22.29	51.91	418.17	-17.90	55.62	416.59	-142.40	1.60
753	12/6/2023 3:27	12/6/2023 3:29	0:02:20	-14.43	58.37	415.43	-7.38	63.62	413.41	-142.35	1.65
754	12/6/2023 3:31	12/6/2023 3:33	0:02:50	-3.82	66.16	412.58	4.86	72.28	411.09	-141.86	2.14
755	12/6/2023 3:35	12/6/2023 3:35	0:00:10	9.43	75.58	410.63	9.93	75.95	410.59	-143.65	0.35
756	12/6/2023 3:41	12/6/2023 3:42	0:00:20	28.01	91.22	410.90	28.93	92.17	410.99	-143.47	0.53
757	12/6/2023 3:43	12/6/2023 3:43	0:00:10	32.53	96.18	411.39	32.97	96.70	411.45	-143.77	0.23
758	12/6/2023 3:51	12/6/2023 3:51	0:00:00	48.70	127.74	413.87	48.70	127.74	413.87	-143.38	0.62
759	12/6/2023 3:59	12/6/2023 4:00	0:00:30	49.08	176.69	413.47	48.41	179.32	413.31	-143.66	0.34
760	12/6/2023 4:00	12/6/2023 4:01	0:00:30	47.41	-177.29	413.08	46.60	-174.83	412.89	-143.78	0.22
761	12/6/2023 4:04	12/6/2023 4:04	0:00:10	40.25	-161.09	411.54	39.87	-160.45	411.47	-143.88	0.12
762	12/6/2023 4:12	12/6/2023 4:13	0:01:00	17.79	-136.05	408.82	14.80	-133.68	408.80	-143.14	0.86
763	12/6/2023 4:15	12/6/2023 4:16	0:01:30	10.28	-130.26	408.95	5.71	-126.95	409.33	-143.55	0.45
764	12/6/2023 4:24	12/6/2023 4:25	0:00:10	-19.05	-108.74	415.43	-19.54	-108.33	415.61	-143.44	0.56
765	12/6/2023 4:34	12/6/2023 4:34	0:00:30	-43.62	-78.33	426.14	-44.60	-76.13	426.60	-143.77	0.23
766	12/6/2023 4:44	12/6/2023 4:44	0:00:20	-50.83	-24.50	429.80	-50.55	-22.60	429.71	-143.43	0.57
767	12/6/2023 4:45	12/6/2023 4:45	0:00:10	-49.53	-17.06	429.32	-49.33	-16.16	429.24	-143.93	0.07
768	12/6/2023 4:47	12/6/2023 4:47	0:00:40	-47.47	-9.26	428.51	-46.38	-6.02	428.07	-142.62	1.38
769	12/6/2023 4:51	12/6/2023 4:51	0:00:10	-38.83	9.43	424.89	-38.44	10.04	424.72	-143.91	0.09
770	12/6/2023 4:52	12/6/2023 4:53	0:00:50	-35.59	14.13	423.50	-33.45	16.86	422.59	-142.76	1.24
771	12/6/2023 4:58	12/6/2023 4:59	0:01:10	-20.96	29.51	417.60	-17.53	32.36	416.38	-142.43	1.57
772	12/6/2023 5:00	12/6/2023 5:02	0:01:40	-14.06	35.10	415.24	-9.03	38.86	413.78	-141.55	2.45
773	12/6/2023 5:02	12/6/2023 5:02	0:00:10	-7.00	40.33	413.26	-6.49	40.69	413.14	-143.75	0.25
774	12/6/2023 5:03	12/6/2023 5:06	0:02:50	-3.95	42.51	412.55	4.73	48.63	411.07	-141.71	2.29
775	12/6/2023 5:08	12/6/2023 5:08	0:00:00	9.81	52.29	410.57	9.81	52.29	410.57	-143.98	0.02
776	12/6/2023 5:14	12/6/2023 5:14	0:00:20	28.36	68.01	410.92	29.28	68.97	411.01	-143.05	0.95
777	12/6/2023 5:23	12/6/2023 5:23	0:00:00	48.65	103.95	413.86	48.65	103.95	413.86	-143.35	0.65
778	12/6/2023 5:32	12/6/2023 5:32	0:00:30	49.13	152.90	413.51	48.47	155.54	413.35	-143.66	0.34
779	12/6/2023 5:33	12/6/2023 5:34	0:00:30	47.22	159.77	413.06	46.38	162.21	412.88	-143.78	0.22
780	12/6/2023 5:37	12/6/2023 5:37	0:00:10	39.97	175.83	411.52	39.58	176.46	411.45	-143.86	0.14
781	12/6/2023 5:44	12/6/2023 5:45	0:00:20	19.88	-161.34	408.93	18.90	-160.52	408.89	-143.72	0.28
782	12/6/2023 5:45	12/6/2023 5:46	0:00:40	16.92	-158.91	408.84	14.93	-157.34	408.83	-143.57	0.43
783	12/6/2023 5:48	12/6/2023 5:49	0:01:00	9.40	-153.18	409.03	6.35	-150.97	409.29	-143.73	0.27
784	12/6/2023 5:52	12/6/2023 5:52	0:00:20	-2.32	-144.83	410.60	-3.34	-144.11	410.80	-143.96	0.04
785	12/6/2023 5:59	12/6/2023 5:59	0:00:00	-25.67	-126.43	417.99	-25.67	-126.43	417.99	-143.97	0.03
786	12/6/2023 6:07	12/6/2023 6:07	0:00:40	-43.53	-102.07	426.03	-44.84	-99.14	426.64	-143.74	0.26
787	12/6/2023 6:17	12/6/2023 6:17	0:00:20	-50.73	-47.35	429.68	-50.44	-45.46	429.57	-143.42	0.58
788	12/6/2023 6:18	12/6/2023 6:18	0:00:10	-49.38	-39.95	429.17	-49.17	-39.06	429.10	-143.93	0.07
789	12/6/2023 6:19	12/6/2023 6:20	0:00:50	-47.54	-33.03	428.45	-46.17	-28.98	427.89	-142.63	1.37
790	12/6/2023 6:24	12/6/2023 6:24	0:00:10	-38.54	-13.67	424.68	-38.14	-13.06	424.51	-143.86	0.14
791	12/6/2023 6:25	12/6/2023 6:26	0:00:40	-34.85	-8.45	423.10	-33.13	-6.30	422.38	-142.98	1.02
792	12/6/2023 6:31	12/6/2023 6:34	0:03:30	-20.11	6.67	417.23	-9.66	14.84	413.91	-142.21	1.79
793	12/6/2023 6:35	12/6/2023 6:35	0:00:00	-6.11	17.41	413.01	-6.11	17.41	413.01	-143.88	0.12
794	12/6/2023 6:36	12/6/2023 6:37	0:01:00	-4.07	18.86	412.54	-1.01	21.02	411.93	-141.07	2.93
795	12/6/2023 6:38	12/6/2023 6:39	0:00:40	2.56	23.54	411.34	4.60	24.98	411.06	-143.39	0.61

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 6.35 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -9.65 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)
58	12/4/2023 0:35	12/4/2023 0:35	0:00:20	-45.23	-1.46	396.28	-45.84	0.09	397.01	-143.94	0.06
59	12/4/2023 0:38	12/4/2023 0:38	0:00:10	-49.73	13.66	401.24	-49.92	14.58	401.41	-143.82	0.18
60	12/4/2023 0:40	12/4/2023 0:41	0:01:00	-51.28	24.08	402.48	-51.68	30.00	402.56	-142.63	1.37
61	12/4/2023 0:42	12/4/2023 0:49	0:07:20	-51.76	33.99	402.38	-43.80	73.34	388.50	-140.39	3.61
62	12/4/2023 0:50	12/4/2023 0:56	0:06:40	-42.43	76.18	386.26	-25.44	98.55	357.59	-139.38	4.62
63	12/4/2023 0:58	12/4/2023 0:58	0:00:40	-21.08	102.50	350.13	-19.10	104.18	346.76	-140.16	3.84
64	12/4/2023 0:59	12/4/2023 1:07	0:08:00	-17.10	105.81	343.38	7.69	123.91	304.57	-138.35	5.65
65	12/4/2023 1:08	12/4/2023 1:50	0:42:30	9.25	125.05	302.43	-1.87	-71.66	330.81	-136.82	7.18
66	12/4/2023 1:51	12/4/2023 1:55	0:04:10	-3.42	-70.56	333.21	-16.21	-61.07	353.37	-139.84	4.16
67	12/4/2023 1:58	12/4/2023 2:01	0:02:30	-26.46	-52.12	369.52	-33.29	-44.68	379.86	-141.70	2.30
68	12/4/2023 2:01	12/4/2023 2:05	0:03:30	-35.02	-42.50	382.38	-43.15	-29.29	393.52	-140.77	3.23
69	12/4/2023 2:06	12/4/2023 2:06	0:00:00	-46.01	-22.57	397.06	-46.01	-22.57	397.06	-143.92	0.08
70	12/4/2023 2:09	12/4/2023 2:09	0:00:10	-49.66	-9.82	401.06	-49.84	-8.91	401.24	-143.67	0.33
71	12/4/2023 2:11	12/4/2023 2:12	0:01:00	-51.24	0.57	402.38	-51.66	6.48	402.51	-142.74	1.26
72	12/4/2023 2:13	12/4/2023 2:20	0:07:20	-51.76	11.47	402.30	-43.60	50.65	388.26	-140.20	3.80
73	12/4/2023 2:21	12/4/2023 2:27	0:06:50	-42.22	53.48	386.01	-24.68	76.15	356.47	-139.39	4.61
74	12/4/2023 2:29	12/4/2023 2:30	0:00:40	-20.29	80.06	348.99	-18.31	81.71	345.61	-140.13	3.87
75	12/4/2023 2:30	12/4/2023 2:38	0:07:40	-16.30	83.33	342.23	7.47	100.64	305.08	-138.42	5.58
76	12/4/2023 2:39	12/4/2023 3:26	0:47:20	9.55	102.16	302.22	-17.01	-83.55	354.44	-136.95	7.05
77	12/4/2023 3:27	12/4/2023 3:27	0:00:10	-19.49	-81.52	358.40	-19.99	-81.10	359.18	-143.30	0.70
78	12/4/2023 3:29	12/4/2023 3:31	0:01:50	-27.21	-74.49	370.52	-32.23	-69.07	378.17	-141.98	2.02
79	12/4/2023 3:32	12/4/2023 3:36	0:03:50	-34.84	-65.85	382.02	-43.68	-51.27	394.15	-140.33	3.67
80	12/4/2023 3:37	12/4/2023 3:37	0:00:00	-45.89	-46.00	396.88	-45.89	-46.00	396.88	-143.93	0.07
81	12/4/2023 3:40	12/4/2023 3:40	0:00:20	-49.58	-33.31	400.98	-49.95	-31.48	401.34	-143.64	0.36
82	12/4/2023 3:42	12/4/2023 3:43	0:01:00	-51.29	-21.97	402.45	-51.68	-16.04	402.55	-142.70	1.30
83	12/4/2023 3:43	12/4/2023 3:51	0:07:30	-51.76	-12.06	402.39	-43.40	27.96	388.11	-140.06	3.94
84	12/4/2023 3:52	12/4/2023 3:58	0:06:50	-42.01	30.76	385.84	-24.39	53.30	356.23	-139.85	4.15
85	12/4/2023 4:00	12/4/2023 4:01	0:00:40	-19.51	57.60	347.90	-17.52	59.24	344.53	-139.82	4.18
86	12/4/2023 4:01	12/4/2023 4:58	0:56:30	-15.50	60.85	341.14	-20.28	-103.97	359.37	-136.80	7.20
87	12/4/2023 4:59	12/4/2023 4:59	0:00:10	-24.17	-100.53	365.52	-24.65	-100.08	366.27	-143.62	0.38
88	12/4/2023 5:01	12/4/2023 5:02	0:01:40	-27.95	-96.86	371.41	-32.49	-91.88	378.30	-142.47	1.53
89	12/4/2023 5:03	12/4/2023 5:07	0:04:00	-34.66	-89.19	381.52	-43.88	-73.96	394.20	-140.20	3.80
90	12/4/2023 5:08	12/4/2023 5:08	0:00:00	-45.77	-69.44	396.54	-45.77	-69.44	396.54	-143.99	0.01
91	12/4/2023 5:11	12/4/2023 5:11	0:00:10	-49.69	-55.89	400.93	-49.87	-54.98	401.11	-143.66	0.34
92	12/4/2023 5:13	12/4/2023 5:14	0:01:00	-51.35	-44.51	402.34	-51.70	-38.57	402.42	-142.71	1.29
93	12/4/2023 5:14	12/4/2023 5:22	0:07:30	-51.76	-34.58	402.24	-43.20	5.27	387.79	-139.93	4.07
94	12/4/2023 5:23	12/4/2023 5:29	0:06:00	-41.79	8.05	385.51	-26.50	28.18	359.93	-140.04	3.96
95	12/4/2023 5:29	12/4/2023 5:29	0:00:20	-25.07	29.55	357.50	-24.11	30.45	355.86	-143.42	0.58
96	12/4/2023 5:30	12/4/2023 5:30	0:00:00	-21.68	32.63	351.73	-21.68	32.63	351.73	-143.86	0.14
97	12/4/2023 5:31	12/4/2023 5:32	0:00:40	-19.22	34.73	347.54	-17.22	36.36	344.17	-138.83	5.17
98	12/4/2023 5:32	12/4/2023 6:29	0:56:40	-15.21	37.96	340.79	-21.06	-126.42	360.32	-136.76	7.24
99	12/4/2023 6:30	12/4/2023 6:30	0:00:10	-24.45	-123.38	365.67	-24.93	-122.94	366.42	-143.17	0.83
100	12/4/2023 6:32	12/4/2023 6:33	0:01:40	-28.22	-119.70	371.55	-32.75	-114.68	378.42	-142.46	1.54
101	12/4/2023 6:34	12/4/2023 6:38	0:04:10	-34.49	-112.53	380.99	-44.08	-96.64	394.21	-139.35	4.65
102	12/4/2023 6:39	12/4/2023 6:39	0:00:10	-45.65	-92.87	396.17	-45.95	-92.09	396.53	-143.95	0.05
103	12/4/2023 6:42	12/4/2023 6:42	0:00:20	-49.62	-79.37	400.67	-49.98	-77.54	401.03	-143.66	0.34
104	12/4/2023 6:44	12/4/2023 6:45	0:01:00	-51.31	-68.02	402.16	-51.69	-62.09	402.28	-142.83	1.17
105	12/4/2023 6:45	12/4/2023 6:51	0:05:50	-51.76	-57.10	402.06	-46.18	-24.92	392.53	-139.86	4.14
106	12/4/2023 6:52	12/4/2023 6:53	0:01:10	-45.28	-22.58	391.11	-43.00	-17.43	387.46	-140.23	3.77
107	12/4/2023 6:54	12/4/2023 7:00	0:06:00	-41.58	-14.66	385.17	-26.21	5.34	359.55	-139.92	4.08
108	12/4/2023 7:00	12/4/2023 7:01	0:00:20	-24.30	7.15	356.31	-23.34	8.03	354.67	-143.45	0.55
109	12/4/2023 7:01	12/4/2023 7:03	0:01:40	-21.39	9.76	351.36	-16.42	13.89	342.97	-139.16	4.84
110	12/4/2023 7:04	12/4/2023 7:58	0:54:20	-14.40	15.48	339.59	-14.89	-154.58	350.23	-136.24	7.76
111	12/4/2023 7:58	12/4/2023 8:00	0:01:40	-16.39	-153.39	352.64	-21.35	-149.28	360.54	-141.35	2.65
112	12/4/2023 8:01	12/4/2023 8:02	0:00:20	-24.74	-146.23	365.89	-25.69	-145.33	367.38	-143.21	0.79
113	12/4/2023 8:03	12/4/2023 8:04	0:01:30	-28.96	-142.04	372.46	-33.02	-137.48	378.60	-142.46	1.54
114	12/4/2023 8:05	12/4/2023 8:09	0:04:10	-34.32	-135.87	380.54	-43.95	-120.05	393.90	-139.04	4.96

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)
115	12/4/2023 8:10	12/4/2023 8:10	0:00:10	-45.53	-116.29	395.89	-45.83	-115.52	396.26	-143.79	0.21
116	12/4/2023 8:12	12/4/2023 8:13	0:00:20	-49.54	-102.85	400.50	-49.91	-101.03	400.88	-143.73	0.27
117	12/4/2023 8:15	12/4/2023 8:16	0:01:00	-51.37	-90.54	402.14	-51.71	-84.61	402.23	-142.69	1.31
118	12/4/2023 8:16	12/4/2023 8:22	0:06:00	-51.76	-80.61	402.06	-46.00	-47.56	392.32	-140.01	3.99
119	12/4/2023 8:23	12/4/2023 8:24	0:01:10	-45.10	-45.24	390.88	-42.79	-40.12	387.21	-140.07	3.93
120	12/4/2023 8:25	12/4/2023 8:31	0:06:00	-41.36	-37.37	384.91	-25.93	-17.50	359.23	-139.59	4.41
121	12/4/2023 8:31	12/4/2023 8:32	0:00:20	-23.53	-15.26	355.17	-22.56	-14.38	353.52	-143.46	0.54
122	12/4/2023 8:32	12/4/2023 8:46	0:13:50	-21.09	-13.10	351.04	21.49	19.15	288.15	-138.21	5.79
123	12/4/2023 8:47	12/4/2023 9:24	0:36:50	23.47	20.92	285.94	1.27	170.54	324.65	-136.19	7.81
124	12/4/2023 9:25	12/4/2023 9:31	0:06:30	-1.85	172.74	329.39	-21.65	-172.14	360.68	-139.74	4.26
125	12/4/2023 9:32	12/4/2023 9:33	0:00:10	-25.50	-168.62	366.78	-25.98	-168.17	367.52	-143.13	0.87
126	12/4/2023 9:34	12/4/2023 9:40	0:06:00	-29.25	-164.86	372.59	-43.82	-143.45	393.51	-139.07	4.93
127	12/4/2023 9:41	12/4/2023 9:41	0:00:10	-45.41	-139.71	395.54	-45.71	-138.93	395.91	-143.56	0.44
128	12/4/2023 9:43	12/4/2023 9:44	0:00:10	-49.66	-125.41	400.46	-49.84	-124.50	400.65	-143.72	0.28
129	12/4/2023 9:46	12/4/2023 9:46	0:00:50	-51.42	-113.06	402.05	-51.70	-108.11	402.14	-142.76	1.24
130	12/4/2023 9:47	12/4/2023 9:53	0:06:00	-51.76	-103.12	401.93	-45.83	-70.19	392.06	-140.27	3.73
131	12/4/2023 9:54	12/4/2023 9:55	0:01:10	-44.91	-67.88	390.62	-42.57	-62.80	386.93	-139.87	4.13
132	12/4/2023 9:56	12/4/2023 9:59	0:03:50	-41.13	-60.08	384.62	-31.65	-46.63	369.03	-139.58	4.42
133	12/4/2023 10:00	12/4/2023 10:02	0:01:40	-30.30	-45.11	366.76	-25.64	-40.34	358.89	-142.60	1.40
134	12/4/2023 10:02	12/4/2023 10:14	0:11:40	-23.24	-38.10	354.83	12.64	-11.12	299.15	-137.49	6.51
135	12/4/2023 10:15	12/4/2023 10:17	0:02:10	14.19	-9.94	297.15	20.79	-4.57	289.14	-140.23	3.77
136	12/4/2023 10:18	12/4/2023 10:55	0:36:50	23.77	-1.92	285.81	0.96	147.65	324.83	-136.40	7.60
137	12/4/2023 10:56	12/4/2023 11:02	0:05:50	-4.24	151.33	332.77	-21.95	165.01	360.87	-139.67	4.33
138	12/4/2023 11:03	12/4/2023 11:04	0:00:20	-25.80	168.54	366.95	-26.74	169.46	368.43	-143.27	0.73
139	12/4/2023 11:05	12/4/2023 11:11	0:05:50	-29.98	172.82	373.45	-44.02	-166.11	393.55	-138.99	5.01
140	12/4/2023 11:11	12/4/2023 11:12	0:00:20	-45.30	-163.12	395.17	-45.90	-161.57	395.92	-143.41	0.59
141	12/4/2023 11:14	12/4/2023 11:15	0:00:20	-49.59	-148.87	400.21	-49.95	-147.04	400.59	-143.68	0.32
142	12/4/2023 11:16	12/4/2023 11:17	0:01:00	-51.39	-136.54	401.88	-51.72	-130.60	402.00	-142.74	1.26
143	12/4/2023 11:18	12/4/2023 11:26	0:07:40	-51.76	-126.61	401.84	-42.71	-86.18	387.15	-139.67	4.33
144	12/4/2023 11:27	12/4/2023 11:31	0:04:00	-40.90	-82.78	384.27	-30.92	-68.91	367.90	-139.94	4.06
145	12/4/2023 11:31	12/4/2023 11:33	0:01:30	-29.56	-67.42	365.61	-25.34	-63.17	358.51	-142.88	1.12
146	12/4/2023 11:34	12/4/2023 11:43	0:09:10	-22.45	-60.51	353.63	5.70	-39.34	308.82	-135.74	8.26
147	12/4/2023 11:43	12/4/2023 11:44	0:00:30	7.78	-37.83	305.89	9.34	-36.70	303.75	-141.08	2.92
148	12/4/2023 11:45	12/4/2023 11:45	0:00:30	11.41	-35.16	300.96	12.96	-33.99	298.92	-141.95	2.05
149	12/4/2023 11:46	12/4/2023 11:47	0:01:30	14.50	-32.80	296.94	19.09	-29.12	291.32	-140.69	3.31
150	12/4/2023 11:49	12/4/2023 12:27	0:38:00	23.58	-25.21	286.21	-2.48	126.96	329.80	-136.86	7.14
151	12/4/2023 12:27	12/4/2023 12:32	0:05:10	-4.04	128.07	332.20	-19.80	140.04	357.18	-139.43	4.57
152	12/4/2023 12:33	12/4/2023 12:33	0:00:00	-22.25	142.16	361.08	-22.25	142.16	361.08	-143.86	0.14
153	12/4/2023 12:35	12/4/2023 12:35	0:00:10	-26.56	146.17	367.89	-27.03	146.64	368.63	-143.36	0.64
154	12/4/2023 12:36	12/4/2023 12:42	0:05:40	-30.27	150.01	373.63	-43.90	170.50	393.21	-139.02	4.98
155	12/4/2023 12:42	12/4/2023 12:43	0:00:20	-45.18	173.48	394.85	-45.79	175.02	395.62	-143.08	0.92
156	12/4/2023 12:45	12/4/2023 12:45	0:00:20	-49.51	-172.32	400.00	-49.89	-170.50	400.39	-143.63	0.37
157	12/4/2023 12:47	12/4/2023 12:48	0:01:00	-51.43	-159.04	401.82	-51.73	-153.09	401.91	-142.65	1.35
158	12/4/2023 12:49	12/4/2023 12:57	0:07:50	-51.75	-149.10	401.73	-42.13	-108.17	386.32	-139.50	4.50
159	12/4/2023 12:58	12/4/2023 13:02	0:03:50	-40.29	-104.83	383.39	-30.64	-91.72	367.58	-140.05	3.95
160	12/4/2023 13:02	12/4/2023 13:04	0:01:30	-29.27	-90.23	365.29	-25.04	-86.00	358.19	-143.06	0.94
161	12/4/2023 13:05	12/4/2023 13:14	0:08:30	-20.18	-81.66	350.01	6.02	-62.22	308.63	-136.36	7.64
162	12/4/2023 13:14	12/4/2023 13:15	0:00:30	8.10	-60.72	305.71	9.66	-59.58	303.57	-140.87	3.13
163	12/4/2023 13:16	12/4/2023 13:18	0:02:30	11.73	-58.04	300.79	19.40	-51.98	291.20	-141.16	2.84
164	12/4/2023 13:19	12/4/2023 14:03	0:44:00	22.90	-48.94	287.20	-20.11	117.19	357.37	-137.18	6.82
165	12/4/2023 14:04	12/4/2023 14:04	0:00:20	-22.07	118.88	360.50	-23.04	119.75	362.04	-143.28	0.72
166	12/4/2023 14:06	12/4/2023 14:06	0:00:20	-26.86	123.35	368.08	-27.79	124.29	369.54	-143.15	0.85
167	12/4/2023 14:07	12/4/2023 14:10	0:03:20	-30.55	127.21	373.82	-39.04	138.37	386.42	-139.11	4.89
168	12/4/2023 14:11	12/4/2023 14:13	0:01:50	-40.20	140.27	388.05	-44.10	147.84	393.34	-141.56	2.44
169	12/4/2023 14:13	12/4/2023 14:13	0:00:20	-45.06	150.08	394.58	-45.67	151.62	395.36	-142.88	1.12
170	12/4/2023 14:16	12/4/2023 14:16	0:00:30	-49.44	164.22	399.87	-49.99	166.96	400.47	-143.58	0.42
171	12/4/2023 14:18	12/4/2023 14:19	0:00:50	-51.48	178.46	401.86	-51.72	-176.58	401.95	-142.72	1.28

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)
172	12/4/2023 14:20	12/4/2023 14:28	0:07:50	-51.74	-171.59	401.74	-41.91	-130.86	386.20	-139.45	4.55
173	12/4/2023 14:29	12/4/2023 14:35	0:06:00	-40.05	-127.55	383.27	-24.26	-108.39	357.24	-140.15	3.85
174	12/4/2023 14:36	12/4/2023 14:49	0:12:40	-19.38	-104.10	349.03	19.71	-74.84	291.16	-137.45	6.55
175	12/4/2023 14:50	12/4/2023 15:30	0:40:00	22.21	-72.68	288.27	-7.27	84.15	336.46	-137.37	6.63
176	12/4/2023 15:30	12/4/2023 15:34	0:03:50	-8.81	85.27	338.90	-20.41	94.33	357.48	-141.88	2.12
177	12/4/2023 15:35	12/4/2023 15:35	0:00:20	-22.37	96.03	360.62	-23.34	96.90	362.16	-142.52	1.48
178	12/4/2023 15:37	12/4/2023 15:37	0:00:30	-27.15	100.52	368.21	-28.55	101.94	370.40	-142.77	1.23
179	12/4/2023 15:38	12/4/2023 15:41	0:03:20	-30.38	103.90	373.26	-38.90	115.02	386.01	-139.16	4.84
180	12/4/2023 15:42	12/4/2023 15:43	0:01:40	-40.44	117.56	388.20	-43.98	124.46	393.05	-141.51	2.49
181	12/4/2023 15:44	12/4/2023 15:44	0:00:20	-44.94	126.69	394.32	-45.56	128.21	395.11	-143.14	0.86
182	12/4/2023 15:47	12/4/2023 15:47	0:00:20	-49.56	141.68	399.98	-49.93	143.50	400.39	-143.45	0.55
183	12/4/2023 15:49	12/4/2023 15:50	0:01:00	-51.45	154.98	401.90	-51.74	160.93	402.03	-142.65	1.35
184	12/4/2023 15:51	12/4/2023 15:59	0:08:00	-51.74	164.92	401.88	-41.68	-153.55	386.17	-139.11	4.89
185	12/4/2023 16:00	12/4/2023 16:06	0:06:10	-39.81	-150.27	383.23	-23.48	-130.79	356.34	-140.32	3.68
186	12/4/2023 16:07	12/4/2023 16:20	0:12:40	-19.07	-126.96	348.95	20.01	-97.70	291.10	-138.15	5.85
187	12/4/2023 16:21	12/4/2023 16:22	0:01:00	21.52	-96.40	289.36	24.49	-93.72	286.03	-140.90	3.10
188	12/4/2023 16:22	12/4/2023 17:01	0:38:40	25.95	-92.33	284.46	-7.07	60.89	335.68	-137.30	6.70
189	12/4/2023 17:01	12/4/2023 17:05	0:03:50	-9.13	62.39	338.94	-20.72	71.48	357.55	-142.03	1.97
190	12/4/2023 17:06	12/4/2023 17:06	0:00:30	-22.19	72.76	359.91	-23.64	74.06	362.24	-142.31	1.69
191	12/4/2023 17:08	12/4/2023 17:09	0:01:30	-27.44	77.70	368.28	-31.57	82.12	374.72	-142.12	1.88
192	12/4/2023 17:10	12/4/2023 17:12	0:02:30	-32.90	83.68	376.76	-39.15	92.30	386.05	-139.13	4.87
193	12/4/2023 17:13	12/4/2023 17:15	0:02:30	-40.30	94.21	387.70	-45.45	104.82	394.73	-141.26	2.74
194	12/4/2023 17:18	12/4/2023 17:18	0:00:30	-49.49	118.23	399.72	-50.04	120.97	400.34	-143.43	0.57
195	12/4/2023 17:20	12/4/2023 17:21	0:00:50	-51.50	132.49	401.81	-51.73	137.45	401.93	-142.62	1.38
196	12/4/2023 17:22	12/4/2023 17:30	0:08:00	-51.73	142.44	401.76	-41.45	-176.24	385.92	-138.81	5.19
197	12/4/2023 17:31	12/4/2023 17:36	0:05:00	-39.57	-172.98	382.97	-26.53	-156.78	361.67	-140.46	3.54
198	12/4/2023 17:36	12/4/2023 17:37	0:00:40	-24.62	-154.96	358.49	-22.69	-153.20	355.26	-143.50	0.50
199	12/4/2023 17:39	12/4/2023 17:52	0:13:40	-18.26	-149.41	347.85	23.81	-117.47	287.03	-138.31	5.69
200	12/4/2023 17:53	12/4/2023 18:29	0:36:10	26.25	-115.16	284.39	0.38	32.47	323.79	-137.22	6.78
201	12/4/2023 18:30	12/4/2023 18:32	0:02:00	-1.18	33.58	326.16	-7.40	38.01	335.81	-138.82	5.18
202	12/4/2023 18:32	12/4/2023 18:37	0:05:00	-9.46	39.51	339.07	-24.43	51.67	363.13	-141.86	2.14
203	12/4/2023 18:38	12/4/2023 18:40	0:01:30	-27.27	54.41	367.66	-31.40	58.82	374.13	-142.07	1.93
204	12/4/2023 18:40	12/4/2023 18:43	0:02:30	-32.74	60.37	376.19	-39.00	68.96	385.55	-138.76	5.24
205	12/4/2023 18:43	12/4/2023 18:46	0:02:30	-40.16	70.86	387.22	-45.34	81.42	394.33	-140.96	3.04
206	12/4/2023 18:49	12/4/2023 18:49	0:00:20	-49.61	95.69	399.66	-49.98	97.52	400.08	-143.20	0.80
207	12/4/2023 18:51	12/4/2023 18:52	0:00:50	-51.54	110.00	401.69	-51.75	114.97	401.78	-142.66	1.34
208	12/4/2023 18:53	12/4/2023 19:00	0:06:50	-51.72	119.96	401.59	-43.68	156.21	389.38	-139.60	4.40
209	12/4/2023 19:00	12/4/2023 19:01	0:00:50	-42.65	158.35	387.81	-40.85	161.74	385.02	-139.33	4.67
210	12/4/2023 19:02	12/4/2023 19:07	0:04:50	-38.93	164.94	382.01	-26.23	-179.60	361.31	-140.52	3.48
211	12/4/2023 19:08	12/4/2023 19:08	0:00:40	-23.84	-177.34	357.33	-21.89	-175.60	354.08	-143.23	0.77
212	12/4/2023 19:10	12/4/2023 19:22	0:12:50	-17.94	-172.26	347.50	21.65	-142.52	289.68	-138.46	5.54
213	12/4/2023 19:24	12/4/2023 20:03	0:38:50	26.08	-138.44	284.77	-7.75	15.16	340.76	-137.34	6.66
214	12/4/2023 20:03	12/4/2023 20:05	0:01:10	-9.81	16.66	344.55	-13.38	19.33	351.26	-143.35	0.65
215	12/4/2023 20:05	12/4/2023 20:08	0:03:10	-14.90	20.51	354.15	-24.27	28.41	372.32	-141.75	2.25
216	12/4/2023 20:09	12/4/2023 20:11	0:01:20	-27.11	31.14	377.89	-30.79	35.01	385.11	-142.63	1.37
217	12/4/2023 20:12	12/4/2023 20:12	0:00:10	-33.45	38.12	390.31	-33.88	38.66	391.15	-143.89	0.11
218	12/4/2023 20:12	12/4/2023 20:14	0:01:20	-35.59	40.86	394.47	-38.84	45.58	400.78	-139.07	4.93
219	12/4/2023 20:14	12/4/2023 20:17	0:02:30	-40.00	47.46	403.01	-45.19	57.93	412.98	-141.17	2.83
220	12/4/2023 20:20	12/4/2023 20:20	0:00:00	-49.88	73.86	422.25	-49.88	73.86	422.25	-143.72	0.28
221	12/4/2023 20:22	12/4/2023 20:23	0:00:50	-51.56	87.21	426.35	-51.75	92.15	427.22	-143.20	0.80
222	12/4/2023 20:24	12/4/2023 20:31	0:07:00	-51.71	97.11	427.77	-43.35	133.77	419.97	-140.74	3.26
223	12/4/2023 20:32	12/4/2023 20:32	0:00:40	-41.97	136.54	418.15	-40.51	139.19	416.15	-139.98	4.02
224	12/4/2023 20:33	12/4/2023 20:38	0:04:20	-37.80	143.53	412.27	-26.40	157.07	394.22	-140.89	3.11
225	12/4/2023 20:39	12/4/2023 20:39	0:00:20	-22.60	160.62	387.76	-21.63	161.47	386.09	-143.90	0.10
226	12/4/2023 20:41	12/4/2023 20:49	0:07:30	-15.71	166.36	375.77	7.36	-176.89	335.66	-139.03	4.97
227	12/4/2023 20:49	12/4/2023 20:53	0:03:50	8.91	-175.77	333.10	20.61	-166.60	314.60	-140.78	3.22
228	12/4/2023 20:55	12/4/2023 20:57	0:01:50	25.53	-162.16	307.35	30.74	-156.78	300.04	-139.56	4.44

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)
229	12/4/2023 20:57	12/4/2023 21:36	0:38:30	32.12	-155.21	298.18	-13.20	-3.99	350.66	-137.37	6.63
230	12/4/2023 21:36	12/4/2023 21:42	0:05:20	-15.23	-2.43	354.51	-30.63	11.64	384.55	-141.51	2.49
231	12/4/2023 21:43	12/4/2023 21:43	0:00:00	-33.73	15.28	390.61	-33.73	15.28	390.61	-143.94	0.06
232	12/4/2023 21:44	12/4/2023 21:45	0:01:00	-36.28	18.61	395.57	-38.70	22.18	400.28	-140.19	3.81
233	12/4/2023 21:45	12/4/2023 21:48	0:02:40	-39.87	24.05	402.53	-45.39	35.24	413.16	-140.87	3.13
234	12/4/2023 21:51	12/4/2023 21:51	0:00:00	-49.82	50.36	421.96	-49.82	50.36	421.96	-143.63	0.37
235	12/4/2023 21:54	12/4/2023 21:54	0:00:40	-51.60	64.67	426.36	-51.74	68.62	427.06	-143.20	0.80
236	12/4/2023 21:56	12/4/2023 22:02	0:06:40	-51.60	76.54	427.84	-43.13	111.04	419.69	-140.56	3.44
237	12/4/2023 22:03	12/4/2023 22:04	0:00:30	-41.37	114.46	417.36	-40.26	116.42	415.83	-140.03	3.97
238	12/4/2023 22:05	12/4/2023 22:09	0:04:20	-37.13	121.32	411.33	-25.62	134.63	393.02	-140.58	3.42
239	12/4/2023 22:10	12/4/2023 22:11	0:00:20	-22.28	137.71	387.34	-21.31	138.56	385.68	-143.85	0.15
240	12/4/2023 22:13	12/4/2023 22:20	0:07:20	-14.88	143.82	374.48	7.70	160.16	335.32	-138.99	5.01
241	12/4/2023 22:21	12/4/2023 22:25	0:03:50	9.25	161.29	332.76	20.93	170.48	314.33	-140.70	3.30
242	12/4/2023 22:26	12/4/2023 22:28	0:02:10	24.87	174.03	308.52	31.04	-179.64	299.84	-139.28	4.72
243	12/4/2023 22:29	12/4/2023 23:06	0:37:20	32.42	-178.06	297.99	-9.97	-29.62	344.37	-137.43	6.57
244	12/4/2023 23:06	12/4/2023 23:07	0:00:50	-11.50	-28.48	347.24	-14.04	-26.55	352.04	-143.16	0.84
245	12/4/2023 23:08	12/4/2023 23:10	0:02:30	-15.56	-25.37	354.94	-22.97	-19.16	369.32	-141.18	2.82
246	12/4/2023 23:11	12/4/2023 23:13	0:02:00	-24.89	-17.40	373.09	-30.48	-11.72	384.07	-142.86	1.14
247	12/4/2023 23:14	12/4/2023 23:14	0:00:10	-33.58	-8.10	390.17	-34.02	-7.56	391.01	-143.79	0.21
248	12/4/2023 23:15	12/4/2023 23:16	0:00:50	-36.55	-4.20	395.96	-38.57	-1.23	399.89	-141.03	2.97
249	12/4/2023 23:17	12/4/2023 23:19	0:02:40	-39.74	0.64	402.15	-45.29	11.78	412.87	-140.63	3.37
250	12/4/2023 23:22	12/4/2023 23:22	0:00:10	-49.75	26.85	421.78	-49.93	27.77	422.17	-143.83	0.17
251	12/4/2023 23:25	12/4/2023 23:26	0:00:50	-51.58	41.13	426.29	-51.75	46.08	427.16	-143.13	0.87
252	12/4/2023 23:27	12/4/2023 23:34	0:07:00	-51.61	53.01	427.85	-42.56	89.00	419.08	-140.41	3.59
253	12/4/2023 23:34	12/4/2023 23:35	0:00:40	-41.13	91.70	417.17	-39.63	94.28	415.10	-139.75	4.25
254	12/4/2023 23:36	12/4/2023 23:41	0:04:20	-36.86	98.51	411.09	-25.31	111.73	392.68	-140.25	3.75
255	12/4/2023 23:42	12/4/2023 23:55	0:13:10	-21.96	114.79	386.98	18.26	145.04	318.55	-138.69	5.31
256	12/4/2023 23:56	12/4/2023 23:56	0:00:10	20.26	146.71	315.49	20.76	147.14	314.73	-143.37	0.63
257	12/4/2023 23:57	12/5/2023 0:00	0:02:30	24.70	150.67	308.89	31.80	158.03	298.91	-138.96	5.04
258	12/5/2023 0:00	12/5/2023 0:37	0:37:10	33.16	159.64	297.07	-10.31	-52.56	344.69	-137.51	6.49
259	12/5/2023 0:38	12/5/2023 0:41	0:03:20	-12.35	-51.03	348.53	-22.32	-42.94	367.77	-141.09	2.91
260	12/5/2023 0:42	12/5/2023 0:43	0:00:40	-25.68	-39.84	374.38	-27.57	-37.99	378.08	-142.58	1.42
261	12/5/2023 0:45	12/5/2023 0:47	0:02:00	-33.44	-31.48	389.64	-38.44	-24.63	399.42	-141.66	2.34
262	12/5/2023 0:48	12/5/2023 0:50	0:02:40	-39.61	-22.77	401.70	-45.19	-11.67	412.52	-140.56	3.44
263	12/5/2023 0:54	12/5/2023 0:54	0:00:00	-49.87	4.27	421.93	-49.87	4.27	421.93	-143.92	0.08
264	12/5/2023 0:56	12/5/2023 0:57	0:00:40	-51.62	18.60	426.36	-51.75	22.55	427.07	-143.16	0.84
265	12/5/2023 0:58	12/5/2023 1:05	0:07:00	-51.58	30.47	427.87	-42.33	66.27	418.88	-140.30	3.70
266	12/5/2023 1:06	12/5/2023 1:06	0:00:30	-40.51	69.59	416.45	-39.37	71.50	414.86	-140.03	3.97
267	12/5/2023 1:08	12/5/2023 1:12	0:04:30	-36.58	75.70	410.83	-24.52	89.28	391.53	-140.05	3.95
268	12/5/2023 1:13	12/5/2023 1:26	0:12:50	-21.64	91.88	386.62	17.58	121.29	319.78	-138.56	5.44
269	12/5/2023 1:27	12/5/2023 1:27	0:00:00	21.09	124.22	314.41	21.09	124.22	314.41	-143.75	0.25
270	12/5/2023 1:28	12/5/2023 1:31	0:03:00	24.05	126.87	310.01	32.55	135.72	298.01	-138.08	5.92
271	12/5/2023 1:32	12/5/2023 2:09	0:36:50	34.34	137.92	295.61	-10.65	-75.50	345.03	-137.58	6.42
272	12/5/2023 2:09	12/5/2023 2:12	0:03:10	-12.69	-73.97	348.87	-22.16	-66.27	367.17	-141.01	2.99
273	12/5/2023 2:14	12/5/2023 2:14	0:00:30	-26.00	-62.73	374.72	-27.41	-61.34	377.50	-142.94	1.06
274	12/5/2023 2:16	12/5/2023 2:18	0:01:50	-33.29	-54.85	389.10	-37.91	-48.63	398.15	-142.08	1.92
275	12/5/2023 2:19	12/5/2023 2:22	0:02:40	-39.48	-46.17	401.22	-45.08	-35.11	412.12	-140.50	3.50
276	12/5/2023 2:27	12/5/2023 2:28	0:00:40	-51.65	-3.93	426.40	-51.76	0.03	427.09	-143.15	0.85
277	12/5/2023 2:29	12/5/2023 2:37	0:07:10	-51.54	7.94	427.84	-41.73	44.21	418.19	-140.29	3.71
278	12/5/2023 2:37	12/5/2023 2:38	0:00:40	-40.26	46.83	416.21	-38.72	49.34	414.06	-140.08	3.92
279	12/5/2023 2:39	12/5/2023 2:42	0:03:20	-36.31	52.89	410.56	-27.49	63.21	396.70	-140.26	3.74
280	12/5/2023 2:43	12/5/2023 2:43	0:00:40	-26.09	64.59	394.38	-24.20	66.39	391.21	-143.42	0.58
281	12/5/2023 2:45	12/5/2023 2:57	0:12:30	-20.82	69.39	385.45	17.41	97.96	320.36	-139.13	4.87
282	12/5/2023 2:58	12/5/2023 2:59	0:00:10	21.42	101.32	314.23	21.91	101.75	313.49	-143.51	0.49
283	12/5/2023 2:59	12/5/2023 3:02	0:03:20	23.39	103.07	311.29	32.85	112.88	297.93	-138.42	5.58
284	12/5/2023 3:03	12/5/2023 3:40	0:36:50	34.63	115.10	295.54	-10.99	-98.45	345.42	-137.64	6.36
285	12/5/2023 3:40	12/5/2023 3:43	0:03:00	-12.52	-97.30	348.30	-21.51	-90.04	365.65	-140.92	3.08

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)
286	12/5/2023 3:45	12/5/2023 3:45	0:00:20	-26.31	-85.62	375.10	-27.25	-84.69	376.96	-143.12	0.88
287	12/5/2023 3:48	12/5/2023 3:49	0:01:40	-33.58	-77.69	389.45	-37.77	-72.02	397.68	-142.11	1.89
288	12/5/2023 3:50	12/5/2023 3:53	0:02:40	-39.35	-69.57	400.77	-44.98	-58.56	411.75	-140.29	3.71
289	12/5/2023 3:59	12/5/2023 3:59	0:00:50	-51.63	-27.45	426.25	-51.76	-22.50	427.11	-143.08	0.92
290	12/5/2023 4:01	12/5/2023 4:08	0:07:10	-51.49	-14.60	427.81	-41.49	21.46	417.94	-140.41	3.59
291	12/5/2023 4:09	12/5/2023 4:09	0:00:40	-40.01	24.06	415.94	-38.46	26.55	413.78	-140.29	3.71
292	12/5/2023 4:10	12/5/2023 4:14	0:03:20	-35.61	30.64	409.63	-26.72	40.79	395.58	-140.60	3.40
293	12/5/2023 4:14	12/5/2023 4:15	0:00:40	-25.31	42.15	393.24	-23.40	43.92	390.04	-143.69	0.31
294	12/5/2023 4:16	12/5/2023 4:28	0:12:30	-20.50	46.47	385.08	17.74	75.03	320.09	-139.96	4.04
295	12/5/2023 4:30	12/5/2023 4:34	0:04:00	21.75	78.41	313.98	33.15	90.05	297.74	-138.27	5.73
296	12/5/2023 4:34	12/5/2023 5:11	0:37:00	34.48	91.71	295.95	-11.32	-121.39	345.73	-137.41	6.59
297	12/5/2023 5:12	12/5/2023 5:14	0:02:20	-12.85	-120.24	348.61	-19.87	-114.64	362.12	-141.16	2.84
298	12/5/2023 5:16	12/5/2023 5:17	0:00:20	-26.16	-108.97	374.46	-27.10	-108.04	376.32	-143.23	0.77
299	12/5/2023 5:19	12/5/2023 5:21	0:01:40	-33.87	-100.52	389.70	-38.04	-94.82	397.89	-141.86	2.14
300	12/5/2023 5:21	12/5/2023 5:24	0:02:40	-39.22	-92.98	400.21	-44.88	-82.00	411.26	-139.88	4.12
301	12/5/2023 5:30	12/5/2023 5:31	0:00:40	-51.66	-49.97	426.31	-51.76	-46.01	427.10	-143.12	0.88
302	12/5/2023 5:32	12/5/2023 5:39	0:07:30	-51.51	-38.09	428.21	-40.82	-0.52	425.67	-140.56	3.44
303	12/5/2023 5:40	12/5/2023 5:43	0:03:00	-39.30	2.04	425.03	-31.79	12.20	421.83	-141.63	2.37
304	12/5/2023 5:44	12/5/2023 5:45	0:01:20	-30.45	13.71	421.27	-26.78	17.53	419.77	-141.44	2.56
305	12/5/2023 5:48	12/5/2023 5:55	0:07:10	-19.12	24.44	416.87	2.56	40.50	411.30	-140.72	3.28
306	12/5/2023 5:56	12/5/2023 5:57	0:01:10	6.64	43.40	410.79	10.18	45.98	410.48	-142.83	1.17
307	12/5/2023 6:01	12/5/2023 6:05	0:03:30	21.60	55.05	410.37	31.41	64.75	411.19	-140.97	3.03
308	12/5/2023 6:07	12/5/2023 6:08	0:00:20	38.20	73.63	412.11	38.99	74.86	412.23	-143.78	0.22
309	12/5/2023 6:08	12/5/2023 6:10	0:01:30	40.53	77.40	412.48	43.73	83.59	413.00	-142.28	1.72
310	12/5/2023 6:10	12/5/2023 6:13	0:02:10	45.02	86.55	413.21	48.56	97.16	413.80	-141.83	2.17
311	12/5/2023 6:13	12/5/2023 6:16	0:02:40	49.22	99.81	413.91	51.48	114.97	414.23	-142.01	1.99
312	12/5/2023 6:18	12/5/2023 6:18	0:00:00	51.68	126.95	414.17	51.68	126.95	414.17	-143.54	0.46
313	12/5/2023 6:18	12/5/2023 6:25	0:06:10	51.46	130.93	414.09	43.29	162.96	412.20	-141.26	2.74
314	12/5/2023 6:29	12/5/2023 6:32	0:02:50	31.72	-179.49	410.11	23.86	-171.45	409.20	-140.70	3.30
315	12/5/2023 6:33	12/5/2023 6:44	0:10:50	21.93	-169.72	409.06	-10.83	-145.30	412.73	-140.45	3.55
316	12/5/2023 6:45	12/5/2023 6:45	0:00:20	-14.84	-142.26	413.98	-15.84	-141.48	414.31	-143.70	0.30
317	12/5/2023 6:46	12/5/2023 6:47	0:00:40	-17.82	-139.90	415.00	-19.78	-138.28	415.71	-142.61	1.39
318	12/5/2023 6:49	12/5/2023 6:49	0:00:00	-26.02	-132.68	418.18	-26.02	-132.68	418.18	-143.67	0.33
319	12/5/2023 6:53	12/5/2023 6:53	0:00:40	-36.25	-121.00	422.68	-37.88	-118.66	423.43	-142.92	1.08
320	12/5/2023 6:54	12/5/2023 6:57	0:02:40	-39.07	-116.83	423.98	-44.76	-105.92	426.63	-140.63	3.37
321	12/5/2023 7:03	12/5/2023 7:03	0:00:50	-51.68	-73.89	429.91	-51.79	-68.91	430.00	-143.06	0.94
322	12/5/2023 7:05	12/5/2023 7:12	0:07:40	-51.50	-60.97	429.94	-40.19	-22.92	425.36	-140.77	3.23
323	12/5/2023 7:13	12/5/2023 7:16	0:03:00	-39.03	-21.03	424.87	-31.48	-10.95	421.66	-141.90	2.10
324	12/5/2023 7:16	12/5/2023 7:18	0:01:30	-30.13	-9.45	421.10	-25.98	-5.21	419.41	-141.47	2.53
325	12/5/2023 7:20	12/5/2023 7:28	0:07:40	-20.23	-0.02	417.24	2.94	17.21	411.23	-140.70	3.30
326	12/5/2023 7:29	12/5/2023 7:30	0:00:40	7.02	20.12	410.74	9.05	21.59	410.56	-143.55	0.45
327	12/5/2023 7:34	12/5/2023 7:34	0:00:40	21.48	31.38	410.38	23.41	33.09	410.48	-142.04	1.96
328	12/5/2023 7:35	12/5/2023 7:37	0:01:40	25.32	34.85	410.61	29.96	39.55	411.04	-140.78	3.22
329	12/5/2023 7:37	12/5/2023 7:37	0:00:00	31.76	41.56	411.25	31.76	41.56	411.25	-143.85	0.15
330	12/5/2023 7:40	12/5/2023 7:40	0:00:20	38.12	49.90	412.12	38.91	51.13	412.24	-143.85	0.15
331	12/5/2023 7:41	12/5/2023 7:43	0:01:50	40.07	53.02	412.42	44.00	60.56	413.06	-142.48	1.52
332	12/5/2023 7:43	12/5/2023 7:45	0:02:20	44.97	62.79	413.22	48.76	74.24	413.85	-142.02	1.98
333	12/5/2023 7:46	12/5/2023 7:49	0:02:40	49.40	76.91	413.95	51.56	92.15	414.25	-141.67	2.33
334	12/5/2023 7:50	12/5/2023 7:51	0:00:10	51.72	103.15	414.19	51.68	104.15	414.17	-143.43	0.57
335	12/5/2023 7:51	12/5/2023 7:57	0:06:10	51.43	108.11	414.09	43.06	139.96	412.15	-141.28	2.72
336	12/5/2023 8:02	12/5/2023 8:03	0:00:30	31.41	157.36	410.06	30.06	158.86	409.87	-143.33	0.67
337	12/5/2023 8:03	12/5/2023 8:17	0:13:20	28.69	160.32	409.69	-11.21	-168.58	412.82	-140.22	3.78
338	12/5/2023 8:18	12/5/2023 8:19	0:01:40	-14.72	-165.92	413.91	-19.66	-161.94	415.65	-142.45	1.55
339	12/5/2023 8:21	12/5/2023 8:22	0:00:30	-24.49	-157.69	417.53	-25.90	-156.35	418.11	-143.25	0.75
340	12/5/2023 8:26	12/5/2023 8:26	0:00:10	-36.97	-143.55	422.99	-37.38	-142.96	423.18	-143.83	0.17
341	12/5/2023 8:26	12/5/2023 8:29	0:03:00	-38.58	-141.16	423.74	-45.00	-128.91	426.72	-140.47	3.53
342	12/5/2023 8:35	12/5/2023 8:36	0:00:50	-51.67	-97.70	429.89	-51.79	-92.72	429.98	-143.11	0.89

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)
343	12/5/2023 8:38	12/5/2023 8:42	0:04:50	-51.44	-83.79	429.91	-45.73	-57.96	427.68	-140.61	3.39
344	12/5/2023 8:43	12/5/2023 8:45	0:02:20	-44.81	-55.68	427.30	-39.90	-46.00	425.22	-141.11	2.89
345	12/5/2023 8:46	12/5/2023 8:49	0:03:00	-38.74	-44.13	424.72	-31.14	-34.13	421.50	-141.85	2.15
346	12/5/2023 8:49	12/5/2023 8:51	0:01:30	-29.79	-32.64	420.94	-25.63	-28.43	419.26	-141.50	2.50
347	12/5/2023 8:52	12/5/2023 8:59	0:06:30	-20.84	-24.10	417.44	-1.27	-9.31	411.92	-140.64	3.36
348	12/5/2023 9:00	12/5/2023 9:00	0:00:50	0.77	-7.88	411.56	3.32	-6.08	411.18	-141.45	2.55
349	12/5/2023 9:01	12/5/2023 9:02	0:00:50	6.38	-3.90	410.80	8.92	-2.07	410.57	-142.57	1.43
350	12/5/2023 9:05	12/5/2023 9:05	0:00:30	15.95	3.25	410.27	17.44	4.44	410.27	-143.74	0.26
351	12/5/2023 9:07	12/5/2023 9:07	0:00:30	21.85	8.13	410.39	23.29	9.42	410.46	-142.21	1.79
352	12/5/2023 9:08	12/5/2023 9:09	0:01:20	25.67	11.63	410.63	29.39	15.38	410.97	-140.61	3.39
353	12/5/2023 9:10	12/5/2023 9:10	0:00:20	31.65	17.87	411.22	32.53	18.90	411.33	-143.43	0.57
354	12/5/2023 9:13	12/5/2023 9:15	0:01:50	39.98	29.30	412.39	43.92	36.81	413.03	-142.62	1.38
355	12/5/2023 9:16	12/5/2023 9:18	0:02:20	44.89	39.04	413.19	48.70	50.46	413.82	-141.93	2.07
356	12/5/2023 9:19	12/5/2023 9:21	0:02:40	49.35	53.12	413.92	51.54	68.35	414.22	-141.81	2.19
357	12/5/2023 9:23	12/5/2023 9:23	0:00:00	51.69	80.34	414.14	51.69	80.34	414.14	-143.44	0.56
358	12/5/2023 9:24	12/5/2023 9:30	0:06:20	51.45	84.31	414.05	42.80	116.93	412.05	-141.31	2.69
359	12/5/2023 9:35	12/5/2023 9:36	0:00:30	31.07	134.18	409.97	29.72	135.67	409.78	-143.32	0.68
360	12/5/2023 9:36	12/5/2023 9:46	0:10:00	28.34	137.12	409.61	-1.43	160.83	410.38	-140.23	3.77
361	12/5/2023 9:47	12/5/2023 9:49	0:02:40	-2.96	161.91	410.68	-11.09	167.77	412.72	-141.84	2.16
362	12/5/2023 9:51	12/5/2023 9:52	0:01:40	-15.10	170.81	413.97	-20.03	174.81	415.72	-142.06	1.94
363	12/5/2023 9:54	12/5/2023 9:54	0:00:30	-24.37	178.64	417.40	-25.79	179.98	417.98	-142.20	1.80
364	12/5/2023 9:59	12/5/2023 10:02	0:03:00	-38.88	-164.26	423.78	-45.23	-151.90	426.72	-140.69	3.31
365	12/5/2023 10:08	12/5/2023 10:09	0:01:00	-51.70	-120.50	429.79	-51.78	-114.52	429.88	-143.06	0.94
366	12/5/2023 10:10	12/5/2023 10:15	0:05:00	-51.46	-107.59	429.80	-45.50	-80.94	427.49	-140.53	3.47
367	12/5/2023 10:16	12/5/2023 10:17	0:01:20	-44.57	-78.67	427.10	-41.84	-73.00	425.96	-141.80	2.20
368	12/5/2023 10:18	12/5/2023 10:21	0:03:50	-40.75	-71.00	425.49	-31.25	-57.81	421.46	-141.11	2.89
369	12/5/2023 10:22	12/5/2023 10:24	0:01:20	-28.99	-55.35	420.53	-25.27	-51.64	419.05	-141.55	2.45
370	12/5/2023 10:25	12/5/2023 10:32	0:06:20	-20.47	-47.34	417.24	-1.39	-32.96	411.91	-140.47	3.53
371	12/5/2023 10:32	12/5/2023 10:33	0:01:00	1.16	-31.16	411.46	4.22	-29.00	411.02	-141.55	2.45
372	12/5/2023 10:34	12/5/2023 10:36	0:02:00	5.75	-27.91	410.84	11.83	-23.48	410.36	-141.01	2.99
373	12/5/2023 10:37	12/5/2023 10:38	0:01:00	15.34	-20.79	410.26	18.31	-18.42	410.27	-143.42	0.58
374	12/5/2023 10:40	12/5/2023 10:40	0:00:20	22.70	-14.68	410.43	23.66	-13.81	410.49	-142.26	1.74
375	12/5/2023 10:41	12/5/2023 10:42	0:01:10	26.03	-11.58	410.66	29.28	-8.30	410.97	-140.30	3.70
376	12/5/2023 10:43	12/5/2023 10:44	0:01:10	31.99	-5.30	411.28	35.03	-1.56	411.68	-143.02	0.98
377	12/5/2023 10:46	12/5/2023 10:48	0:01:50	39.89	5.59	412.41	43.84	13.08	413.06	-142.73	1.27
378	12/5/2023 10:48	12/5/2023 10:54	0:05:30	44.81	15.30	413.22	51.53	44.55	414.27	-141.76	2.24
379	12/5/2023 10:56	12/5/2023 10:56	0:00:10	51.70	56.54	414.19	51.66	57.54	414.17	-143.57	0.43
380	12/5/2023 10:57	12/5/2023 11:03	0:06:20	51.39	61.50	414.08	42.54	93.90	412.03	-141.34	2.66
381	12/5/2023 11:08	12/5/2023 11:08	0:00:20	30.28	111.50	409.89	29.37	112.48	409.77	-143.49	0.51
382	12/5/2023 11:09	12/5/2023 11:22	0:13:00	27.52	114.39	409.54	-11.47	144.49	412.85	-140.36	3.64
383	12/5/2023 11:23	12/5/2023 11:25	0:01:50	-15.48	147.55	414.11	-20.89	151.98	416.04	-142.29	1.71
384	12/5/2023 11:26	12/5/2023 11:27	0:00:40	-23.78	154.53	417.17	-25.68	156.31	417.94	-142.47	1.53
385	12/5/2023 11:29	12/5/2023 11:29	0:00:00	-30.29	161.02	419.89	-30.29	161.02	419.89	-143.89	0.11
386	12/5/2023 11:32	12/5/2023 11:35	0:03:00	-39.17	172.65	423.89	-45.46	-174.88	426.80	-141.05	2.95
387	12/5/2023 11:41	12/5/2023 11:42	0:01:10	-51.69	-144.30	429.74	-51.77	-137.33	429.83	-143.08	0.92
388	12/5/2023 11:43	12/5/2023 11:48	0:05:00	-51.40	-130.40	429.74	-45.27	-103.92	427.35	-140.53	3.47
389	12/5/2023 11:49	12/5/2023 11:50	0:01:20	-44.32	-101.67	426.95	-41.57	-96.05	425.79	-141.88	2.12
390	12/5/2023 11:50	12/5/2023 11:52	0:01:20	-40.46	-94.07	425.32	-37.33	-89.13	423.99	-140.77	3.23
391	12/5/2023 11:52	12/5/2023 11:54	0:02:10	-36.10	-87.39	423.47	-30.46	-80.49	421.10	-140.90	3.10
392	12/5/2023 11:55	12/5/2023 11:57	0:01:30	-28.64	-78.55	420.36	-24.44	-74.42	418.69	-141.59	2.41
393	12/5/2023 11:58	12/5/2023 12:04	0:06:10	-20.10	-70.59	417.08	-1.51	-56.61	411.91	-140.14	3.86
394	12/5/2023 12:05	12/5/2023 12:09	0:03:40	2.06	-54.09	411.31	13.22	-45.99	410.30	-139.41	4.59
395	12/5/2023 12:10	12/5/2023 12:11	0:01:10	15.22	-44.45	410.26	18.69	-41.67	410.28	-143.08	0.92
396	12/5/2023 12:12	12/5/2023 12:15	0:02:20	23.07	-37.91	410.46	29.63	-31.49	411.03	-140.01	3.99
397	12/5/2023 12:16	12/5/2023 12:17	0:01:20	31.88	-28.98	411.30	35.35	-24.69	411.76	-143.09	0.91
398	12/5/2023 12:19	12/5/2023 12:21	0:01:40	40.18	-17.49	412.50	43.76	-10.65	413.10	-142.87	1.13
399	12/5/2023 12:21	12/5/2023 12:27	0:05:30	45.05	-7.68	413.32	51.58	21.75	414.35	-141.88	2.12

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)
400	12/5/2023 12:29	12/5/2023 12:29	0:00:10	51.67	33.74	414.27	51.62	34.73	414.25	-143.38	0.62
401	12/5/2023 12:30	12/5/2023 12:36	0:06:20	51.32	38.69	414.16	42.27	70.86	412.08	-141.38	2.62
402	12/5/2023 12:41	12/5/2023 12:41	0:00:10	29.48	88.80	409.88	29.02	89.29	409.82	-143.75	0.25
403	12/5/2023 12:42	12/5/2023 12:55	0:13:00	27.17	91.18	409.60	-11.85	121.21	413.02	-140.32	3.68
404	12/5/2023 12:56	12/5/2023 12:58	0:02:00	-15.85	124.28	414.29	-21.74	129.15	416.42	-142.21	1.79
405	12/5/2023 12:59	12/5/2023 13:00	0:00:50	-23.66	130.87	417.17	-26.03	133.09	418.13	-142.52	1.48
406	12/5/2023 13:05	12/5/2023 13:08	0:02:50	-39.47	149.57	424.08	-45.39	161.37	426.82	-141.35	2.65
407	12/5/2023 13:13	12/5/2023 13:15	0:01:20	-51.68	-168.11	429.80	-51.75	-160.14	429.90	-143.07	0.93
408	12/5/2023 13:16	12/5/2023 13:21	0:05:00	-51.33	-153.22	429.79	-45.03	-126.91	427.34	-140.63	3.37
409	12/5/2023 13:21	12/5/2023 13:23	0:01:20	-44.07	-124.68	426.94	-41.29	-119.11	425.77	-141.94	2.06
410	12/5/2023 13:23	12/5/2023 13:25	0:01:20	-40.18	-117.15	425.29	-37.02	-112.25	423.95	-140.66	3.34
411	12/5/2023 13:25	12/5/2023 13:27	0:02:10	-35.79	-110.53	423.43	-30.12	-103.68	421.06	-140.36	3.64
412	12/5/2023 13:28	12/5/2023 13:29	0:01:30	-28.29	-101.75	420.32	-24.08	-97.65	418.66	-141.59	2.41
413	12/5/2023 13:31	12/5/2023 13:37	0:06:10	-19.73	-93.84	417.06	-1.13	-79.90	411.96	-139.63	4.37
414	12/5/2023 13:38	12/5/2023 13:44	0:05:40	1.94	-77.74	411.45	19.06	-64.93	410.40	-139.31	4.69
415	12/5/2023 13:45	12/5/2023 13:48	0:02:30	23.43	-61.14	410.59	30.42	-54.19	411.22	-139.48	4.52
416	12/5/2023 13:48	12/5/2023 13:50	0:01:40	31.77	-52.67	411.38	36.08	-47.26	411.97	-142.68	1.32
417	12/5/2023 13:52	12/5/2023 13:53	0:01:30	40.46	-40.56	412.65	43.67	-34.39	413.18	-143.13	0.87
418	12/5/2023 13:54	12/5/2023 13:54	0:00:20	44.97	-31.43	413.40	45.59	-29.90	413.51	-143.79	0.21
419	12/5/2023 13:55	12/5/2023 13:59	0:04:40	46.47	-27.54	413.66	51.56	-2.07	414.43	-141.87	2.13
420	12/5/2023 14:01	12/5/2023 14:02	0:00:10	51.68	9.93	414.35	51.63	10.92	414.33	-143.58	0.42
421	12/5/2023 14:02	12/5/2023 14:09	0:06:30	51.34	14.88	414.24	42.00	47.81	412.07	-141.43	2.57
422	12/5/2023 14:15	12/5/2023 14:28	0:12:50	26.35	68.43	409.51	-12.23	97.94	413.13	-140.29	3.71
423	12/5/2023 14:29	12/5/2023 14:30	0:00:40	-15.73	100.62	414.26	-17.71	102.20	414.94	-142.81	1.19
424	12/5/2023 14:30	12/5/2023 14:33	0:02:10	-20.16	104.23	415.84	-26.38	109.87	418.32	-141.75	2.25
425	12/5/2023 14:38	12/5/2023 14:41	0:02:50	-39.75	126.48	424.32	-45.61	138.39	427.07	-141.64	2.36
426	12/5/2023 14:46	12/5/2023 14:48		-51.71	169.07	430.02	-51.72	177.04	430.11	-143.04	0.96
427	12/5/2023 14:49	12/5/2023 14:54		-51.35	-177.04	430.02	-44.80	-149.91	427.49	-140.74	3.26
428	12/5/2023 14:54	12/5/2023 14:56		-43.83	-147.70	427.09	-41.02	-142.18	425.91	-141.99	2.01
429	12/5/2023 14:56	12/5/2023 14:57		-39.89	-140.24	425.43	-36.72	-135.39	424.08	-140.56	3.44
430	12/5/2023 14:58	12/5/2023 15:00		-35.05	-133.12	423.37	-29.33	-126.40	420.99	-139.80	4.20
431	12/5/2023 15:01	12/5/2023 15:02		-27.95	-124.97	420.43	-23.24	-120.46	418.59	-141.40	2.60
432	12/5/2023 15:04	12/5/2023 15:05		-19.37	-117.10	417.17	-15.92	-114.31	416.00	-141.74	2.26
433	12/5/2023 15:05	12/5/2023 15:10		-14.42	-113.14	415.52	-0.24	-102.84	411.99	-139.43	4.57
434	12/5/2023 15:11	12/5/2023 15:12		2.31	-101.04	411.57	4.35	-99.59	411.29	-142.42	1.58
435	12/5/2023 15:12	12/5/2023 15:13		5.88	-98.51	411.10	9.43	-95.94	410.77	-139.97	4.03
436	12/5/2023 15:14	12/5/2023 15:17		11.45	-94.44	410.64	19.42	-88.19	410.52	-142.46	1.54
437	12/5/2023 15:18	12/5/2023 15:23		23.78	-84.39	410.71	37.62	-68.65	412.21	-138.91	5.09
438	12/5/2023 15:24	12/5/2023 15:26		40.36	-64.30	412.62	43.58	-58.15	413.13	-143.10	0.90
439	12/5/2023 15:27	12/5/2023 15:27		44.89	-55.20	413.34	45.20	-54.44	413.40	-143.77	0.23
440	12/5/2023 15:28	12/5/2023 15:32		46.68	-50.51	413.63	51.54	-25.89	414.32	-141.78	2.22
441	12/5/2023 15:34	12/5/2023 15:34		51.64	-12.90	414.21	51.59	-11.91	414.18	-143.56	0.44
442	12/5/2023 15:35	12/5/2023 15:42		51.27	-7.96	414.08	41.73	24.75	411.83	-141.47	2.53
443	12/5/2023 15:48	12/5/2023 16:01		26.00	45.20	409.27	-12.60	74.65	413.09	-140.20	3.80
444	12/5/2023 16:02	12/5/2023 16:02		-16.10	77.35	414.24	-17.58	78.54	414.76	-142.86	1.14
445	12/5/2023 16:03	12/5/2023 16:05		-21.01	81.40	416.04	-26.73	86.65	418.36	-141.89	2.11
446	12/5/2023 16:11	12/5/2023 16:13		-40.04	103.39	424.40	-45.54	114.63	427.01	-141.81	2.19
447	12/5/2023 16:19	12/5/2023 16:20		-51.70	145.26	430.05	-51.70	154.22	430.16	-142.97	1.03
448	12/5/2023 16:21	12/5/2023 16:27		-51.28	160.13	430.06	-44.56	-172.92	427.49	-140.69	3.31
449	12/5/2023 16:27	12/5/2023 16:28		-43.58	-170.73	427.09	-40.74	-165.25	425.90	-142.01	1.99
450	12/5/2023 16:29	12/5/2023 16:30		-39.61	-163.33	425.42	-36.41	-158.52	424.07	-140.32	3.68
451	12/5/2023 16:31	12/5/2023 16:36		-34.74	-156.27	423.36	-21.93	-142.85	418.22	-139.95	4.05
452	12/5/2023 16:36	12/5/2023 16:38		-19.50	-140.77	417.34	-15.55	-137.58	416.00	-141.61	2.39
453	12/5/2023 16:38	12/5/2023 16:44		-13.55	-136.04	415.37	4.22	-123.25	411.41	-140.08	3.92
454	12/5/2023 16:45	12/5/2023 16:46		6.26	-121.80	411.17	8.79	-119.97	410.92	-140.05	3.95
455	12/5/2023 16:47	12/5/2023 16:49		12.33	-117.35	410.69	19.78	-111.45	410.61	-143.24	0.76
456	12/5/2023 16:51	12/5/2023 16:54		24.13	-107.62	410.80	31.98	-99.55	411.51	-139.32	4.68

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)
457	12/5/2023 16:54	12/5/2023 16:56		33.73	-97.45	411.72	37.51	-92.36	412.23	-141.42	2.58
458	12/5/2023 16:57	12/5/2023 16:59		40.26	-88.03	412.63	43.50	-81.90	413.13	-142.89	1.11
459	12/5/2023 16:59	12/5/2023 16:59		44.81	-78.96	413.34	45.12	-78.20	413.39	-143.75	0.25
460	12/5/2023 17:00	12/5/2023 17:05		46.88	-73.48	413.66	51.59	-48.72	414.29	-141.87	2.13
461	12/5/2023 17:07	12/5/2023 17:07		51.60	-35.73	414.13	51.60	-35.73	414.13	-143.54	0.46
462	12/5/2023 17:08	12/5/2023 17:14		51.30	-31.78	414.02	41.46	1.69	411.67	-141.53	2.47
463	12/5/2023 17:21	12/5/2023 17:32		25.18	22.43	409.06	-7.42	47.28	411.48	-140.39	3.61
464	12/5/2023 17:32	12/5/2023 17:33		-9.45	48.75	412.03	-12.97	51.38	413.08	-143.57	0.43
465	12/5/2023 17:34	12/5/2023 17:35		-15.97	53.69	414.07	-17.46	54.88	414.59	-142.83	1.17
466	12/5/2023 17:36	12/5/2023 17:37		-21.86	58.57	416.24	-24.25	60.72	417.20	-141.73	2.27
467	12/5/2023 17:43	12/5/2023 17:46		-39.94	79.66	424.24	-45.46	90.87	426.87	-141.73	2.27
468	12/5/2023 17:52	12/5/2023 17:53		-51.73	122.44	429.98	-51.71	130.41	430.07	-143.00	1.00
469	12/5/2023 17:54	12/5/2023 17:59		-51.21	137.30	429.95	-44.32	164.08	427.33	-140.63	3.37
470	12/5/2023 18:00	12/5/2023 18:01		-43.33	166.25	426.92	-40.46	171.67	425.73	-142.03	1.97
471	12/5/2023 18:02	12/5/2023 18:03		-38.93	174.20	425.09	-36.11	178.35	423.90	-139.87	4.13
472	12/5/2023 18:04	12/5/2023 18:04	0:00:00	-33.99	-178.88	423.01	-33.99	-178.88	423.01	-143.97	0.03
473	12/5/2023 18:04	12/5/2023 18:10	0:06:00	-32.69	-177.29	422.47	-15.68	-161.24	416.03	-140.15	3.85
474	12/5/2023 18:11	12/5/2023 18:17	0:05:30	-12.68	-158.93	415.10	4.09	-146.90	411.44	-140.76	3.24
475	12/5/2023 18:18	12/5/2023 18:19	0:00:50	6.64	-145.09	411.14	9.17	-143.25	410.91	-140.31	3.69
476	12/5/2023 18:20	12/5/2023 18:21	0:01:10	13.21	-140.25	410.67	16.70	-137.53	410.60	-143.38	0.62
477	12/5/2023 18:24	12/5/2023 18:27	0:03:00	24.01	-131.30	410.81	32.31	-122.73	411.57	-139.61	4.39
478	12/5/2023 18:27	12/5/2023 18:29	0:01:40	33.63	-121.15	411.73	37.82	-115.48	412.29	-141.51	2.49
479	12/5/2023 18:30	12/5/2023 18:31	0:01:10	40.17	-111.75	412.64	42.72	-107.06	413.03	-142.61	1.39
480	12/5/2023 18:32	12/5/2023 18:32	0:00:20	44.73	-102.71	413.34	45.35	-101.19	413.44	-143.72	0.28
481	12/5/2023 18:33	12/5/2023 18:38	0:04:30	46.81	-97.24	413.67	51.58	-72.53	414.29	-141.64	2.36
482	12/5/2023 18:40	12/5/2023 18:40	0:00:10	51.62	-59.54	414.14	51.56	-58.55	414.11	-143.68	0.32
483	12/5/2023 18:41	12/5/2023 18:47	0:06:40	51.22	-54.61	414.00	41.19	-21.37	411.60	-141.58	2.42
484	12/5/2023 18:51	12/5/2023 18:51	0:00:10	31.74	-7.95	409.87	31.30	-7.44	409.80	-143.97	0.03
485	12/5/2023 18:54	12/5/2023 19:03	0:08:50	24.35	-0.36	408.95	-2.20	20.00	410.24	-140.60	3.40
486	12/5/2023 19:03	12/5/2023 19:05	0:01:30	-4.24	21.44	410.67	-8.81	24.73	411.80	-142.94	1.06
487	12/5/2023 19:05	12/5/2023 19:06	0:00:50	-10.84	26.21	412.38	-13.35	28.10	413.15	-143.68	0.32
488	12/5/2023 19:07	12/5/2023 19:08	0:00:30	-16.34	30.42	414.14	-17.83	31.61	414.67	-142.66	1.34
489	12/5/2023 19:09	12/5/2023 19:10	0:00:30	-22.22	35.33	416.33	-23.66	36.62	416.90	-141.64	2.36
490	12/5/2023 19:16	12/5/2023 19:19	0:02:40	-39.85	55.94	424.14	-45.39	67.12	426.78	-141.96	2.04
491	12/5/2023 19:24	12/5/2023 19:26	0:01:30	-51.72	98.63	429.92	-51.68	107.60	430.01	-142.91	1.09
492	12/5/2023 19:27	12/5/2023 19:32	0:05:20	-51.24	113.50	429.90	-44.08	141.07	427.17	-140.62	3.38
493	12/5/2023 19:33	12/5/2023 19:34	0:01:20	-43.07	143.22	426.76	-40.18	148.60	425.56	-142.04	1.96
494	12/5/2023 19:35	12/5/2023 19:36	0:01:20	-38.64	151.10	424.91	-35.37	155.78	423.54	-139.98	4.02
495	12/5/2023 19:37	12/5/2023 19:43	0:05:40	-31.92	160.06	422.10	-15.80	175.11	416.04	-140.34	3.66
496	12/5/2023 19:44	12/5/2023 19:50	0:05:10	-11.80	178.17	414.81	3.96	-170.55	411.44	-140.44	3.56
497	12/5/2023 19:51	12/5/2023 19:51	0:00:50	7.02	-168.37	411.08	9.55	-166.53	410.86	-141.02	2.98
498	12/5/2023 19:53	12/5/2023 19:54	0:00:40	14.08	-163.13	410.63	16.08	-161.58	410.59	-143.80	0.20
499	12/5/2023 19:56	12/5/2023 20:01	0:05:00	24.37	-154.53	410.82	37.72	-139.19	412.27	-139.97	4.03
500	12/5/2023 20:02	12/5/2023 20:03	0:01:10	39.69	-136.11	412.56	42.29	-131.48	412.95	-142.57	1.43
501	12/5/2023 20:05	12/5/2023 20:05	0:00:20	44.65	-126.45	413.32	45.28	-124.94	413.42	-143.69	0.31
502	12/5/2023 20:06	12/5/2023 20:10	0:04:30	46.75	-121.00	413.65	51.56	-96.34	414.28	-141.71	2.29
503	12/5/2023 20:13	12/5/2023 20:13	0:00:10	51.58	-82.35	414.12	51.51	-81.36	414.09	-143.70	0.30
504	12/5/2023 20:13	12/5/2023 20:20	0:06:40	51.15	-77.44	413.97	40.91	-44.43	411.55	-141.63	2.37
505	12/5/2023 20:24	12/5/2023 20:24	0:00:20	31.41	-31.13	409.84	30.51	-30.12	409.71	-143.79	0.21
506	12/5/2023 20:27	12/5/2023 20:35	0:08:40	23.99	-23.58	408.95	-2.07	-3.65	410.25	-140.77	3.23
507	12/5/2023 20:36	12/5/2023 20:38	0:01:20	-5.13	-1.48	410.91	-9.19	1.44	411.94	-143.10	0.90
508	12/5/2023 20:40	12/5/2023 20:41	0:00:30	-16.71	7.16	414.29	-18.20	8.36	414.82	-142.58	1.42
509	12/5/2023 20:47	12/5/2023 20:47	0:00:00	-36.57	27.39	422.59	-36.57	27.39	422.59	-143.93	0.07
510	12/5/2023 20:49	12/5/2023 20:51	0:02:50	-39.75	32.23	424.08	-45.61	44.14	426.86	-142.05	1.95
511	12/5/2023 20:57	12/5/2023 20:59	0:01:20	-51.75	75.82	429.89	-51.69	83.79	429.96	-142.89	1.11
512	12/5/2023 21:00	12/5/2023 21:05	0:05:20	-51.16	90.67	429.82	-43.83	118.06	426.99	-140.62	3.38
513	12/5/2023 21:06	12/5/2023 21:07	0:01:30	-42.81	120.19	426.57	-39.51	126.15	425.19	-142.04	1.96

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)
514	12/5/2023 21:08	12/5/2023 21:09	0:01:20	-38.34	128.00	424.70	-35.06	132.64	423.32	-140.04	3.96
515	12/5/2023 21:10	12/5/2023 21:10	0:00:00	-33.34	134.81	422.60	-33.34	134.81	422.60	-143.99	0.01
516	12/5/2023 21:10	12/5/2023 21:16	0:05:30	-31.14	137.39	421.69	-15.42	151.84	415.85	-140.47	3.53
517	12/5/2023 21:17	12/5/2023 21:22	0:05:10	-11.42	154.90	414.63	4.35	166.16	411.34	-140.09	3.91
518	12/5/2023 21:23	12/5/2023 21:24	0:00:50	7.40	168.35	411.00	9.94	170.19	410.79	-141.24	2.76
519	12/5/2023 21:29	12/5/2023 21:33	0:04:00	24.73	-177.75	410.84	35.55	-165.79	411.98	-139.74	4.26
520	12/5/2023 21:34	12/5/2023 21:34	0:00:10	37.21	-163.49	412.21	37.62	-162.89	412.27	-143.83	0.17
521	12/5/2023 21:35	12/5/2023 21:36	0:01:20	39.21	-160.45	412.51	42.20	-155.21	412.97	-142.85	1.15
522	12/5/2023 21:37	12/5/2023 21:38	0:00:10	44.89	-149.45	413.40	45.20	-148.69	413.45	-143.68	0.32
523	12/5/2023 21:39	12/5/2023 21:43	0:04:30	46.95	-143.95	413.73	51.61	-119.15	414.35	-141.78	2.22
524	12/5/2023 21:45	12/5/2023 21:45	0:00:00	51.52	-105.17	414.17	51.52	-105.17	414.17	-143.66	0.34
525	12/5/2023 21:46	12/5/2023 21:53	0:06:50	51.17	-101.24	414.06	40.63	-67.50	411.58	-141.69	2.31
526	12/5/2023 21:57	12/5/2023 21:57	0:00:40	31.07	-54.31	409.88	29.26	-52.33	409.63	-143.63	0.37
527	12/5/2023 22:00	12/5/2023 22:08	0:08:30	23.15	-46.38	408.98	-2.45	-26.94	410.43	-140.86	3.14
528	12/5/2023 22:09	12/5/2023 22:10	0:01:30	-5.00	-25.13	410.98	-9.57	-21.84	412.15	-143.08	0.92
529	12/5/2023 22:13	12/5/2023 22:13	0:00:30	-17.08	-16.10	414.53	-18.56	-14.90	415.06	-142.13	1.87
530	12/5/2023 22:21	12/5/2023 22:22	0:00:40	-39.65	8.51	424.12	-41.16	11.09	424.83	-142.45	1.55
531	12/5/2023 22:23	12/5/2023 22:24	0:01:30	-42.59	13.80	425.51	-45.54	20.38	426.90	-141.98	2.02
532	12/5/2023 22:30	12/5/2023 22:31	0:01:30	-51.74	52.01	429.94	-51.65	60.97	430.01	-142.84	1.16
533	12/5/2023 22:32	12/5/2023 22:38	0:05:30	-51.18	66.86	429.87	-43.58	95.03	426.91	-140.66	3.34
534	12/5/2023 22:38	12/5/2023 22:40	0:01:30	-42.55	97.15	426.48	-39.22	103.06	425.07	-142.06	1.94
535	12/5/2023 22:41	12/5/2023 22:42	0:01:20	-37.64	105.49	424.40	-34.31	110.04	422.99	-140.15	3.85
536	12/5/2023 22:42	12/5/2023 22:42	0:00:00	-33.02	111.64	422.45	-33.02	111.64	422.45	-143.87	0.13
537	12/5/2023 22:43	12/5/2023 22:49	0:05:30	-30.35	114.70	421.34	-14.55	128.96	415.51	-140.28	3.72
538	12/5/2023 22:50	12/5/2023 22:55	0:05:30	-11.55	131.24	414.61	5.24	143.24	411.15	-140.25	3.75
539	12/5/2023 22:56	12/5/2023 22:58	0:02:00	7.78	145.06	410.88	13.84	149.56	410.51	-141.23	2.77
540	12/5/2023 23:02	12/5/2023 23:06	0:03:40	25.08	159.02	410.76	35.02	169.95	411.81	-139.38	4.62
541	12/5/2023 23:07	12/5/2023 23:09	0:01:30	38.72	175.21	412.34	42.11	-178.94	412.86	-142.78	1.22
542	12/5/2023 23:10	12/5/2023 23:10	0:00:10	44.81	-173.19	413.30	45.12	-172.44	413.35	-143.49	0.51
543	12/5/2023 23:11	12/5/2023 23:16	0:04:30	46.88	-167.71	413.63	51.59	-142.95	414.29	-141.69	2.31
544	12/5/2023 23:18	12/5/2023 23:18	0:00:00	51.47	-127.98	414.10	51.47	-127.98	414.10	-143.79	0.21
545	12/5/2023 23:19	12/5/2023 23:26	0:06:50	51.09	-124.06	413.98	40.35	-90.57	411.51	-141.75	2.25
546	12/5/2023 23:30	12/5/2023 23:30	0:00:40	30.73	-77.49	409.83	28.91	-75.52	409.58	-143.47	0.53
547	12/5/2023 23:32	12/5/2023 23:41	0:08:30	22.79	-69.62	408.96	-2.84	-50.23	410.57	-141.05	2.95
548	12/5/2023 23:42	12/5/2023 23:43	0:01:40	-4.88	-48.78	411.02	-9.95	-45.12	412.33	-143.02	0.98
549	12/5/2023 23:46	12/5/2023 23:46	0:00:30	-17.46	-39.36	414.75	-18.93	-38.16	415.28	-141.99	2.01
550	12/5/2023 23:54	12/5/2023 23:55	0:00:50	-39.17	-15.84	424.01	-41.07	-12.64	424.90	-142.56	1.44
551	12/5/2023 23:55	12/5/2023 23:57	0:01:20	-42.86	-9.24	425.75	-45.46	-3.37	426.98	-141.99	2.01
552	12/6/2023 0:03	12/6/2023 0:04	0:01:30	-51.76	29.19	430.06	-51.61	38.15	430.09	-142.65	1.35
553	12/6/2023 0:05	12/6/2023 0:11	0:05:30	-51.10	44.02	429.94	-43.33	72.01	426.86	-140.72	3.28
554	12/6/2023 0:11	12/6/2023 0:13	0:01:30	-42.29	74.10	426.42	-38.93	79.96	424.99	-142.08	1.92
555	12/6/2023 0:13	12/6/2023 0:15	0:01:20	-37.34	82.37	424.31	-33.99	86.88	422.88	-140.31	3.69
556	12/6/2023 0:15	12/6/2023 0:15	0:00:00	-32.69	88.47	422.33	-32.69	88.47	422.33	-143.73	0.27
557	12/6/2023 0:16	12/6/2023 0:22	0:05:30	-30.02	91.51	421.22	-14.18	105.68	415.35	-140.33	3.67
558	12/6/2023 0:23	12/6/2023 0:28	0:05:30	-11.17	107.96	414.44	5.62	119.95	411.01	-139.50	4.50
559	12/6/2023 0:29	12/6/2023 0:31	0:02:10	7.65	121.41	410.79	14.21	126.28	410.38	-141.57	2.43
560	12/6/2023 0:34	12/6/2023 0:34	0:00:00	21.61	132.32	410.43	21.61	132.32	410.43	-143.88	0.12
561	12/6/2023 0:35	12/6/2023 0:38	0:03:10	25.91	136.25	410.68	34.49	145.70	411.58	-140.18	3.82
562	12/6/2023 0:40	12/6/2023 0:41	0:01:20	38.62	151.50	412.15	41.66	156.65	412.61	-142.51	1.49
563	12/6/2023 0:43	12/6/2023 0:43	0:00:10	44.73	163.06	413.10	45.05	163.81	413.15	-143.34	0.66
564	12/6/2023 0:44	12/6/2023 0:48	0:04:30	46.82	168.53	413.44	51.58	-166.76	414.10	-141.73	2.27
565	12/6/2023 0:51	12/6/2023 0:51	0:00:00	51.49	-151.79	413.93	51.49	-151.79	413.93	-143.81	0.19
566	12/6/2023 0:52	12/6/2023 0:59	0:07:00	51.12	-147.86	413.82	40.06	-113.64	411.33	-141.75	2.25
567	12/6/2023 1:02	12/6/2023 1:03	0:00:50	30.39	-100.67	409.71	28.10	-98.25	409.42	-143.23	0.77
568	12/6/2023 1:05	12/6/2023 1:14	0:08:30	22.43	-92.85	408.88	-3.22	-73.52	410.66	-141.17	2.83
569	12/6/2023 1:14	12/6/2023 1:16	0:02:00	-4.75	-72.43	411.00	-10.84	-68.02	412.60	-143.00	1.00
570	12/6/2023 1:18	12/6/2023 1:19	0:00:40	-17.34	-63.02	414.72	-19.30	-61.41	415.43	-142.16	1.84

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)
571	12/6/2023 1:25	12/6/2023 1:25	0:00:00	-35.84	-44.29	422.45	-35.84	-44.29	422.45	-143.96	0.04
572	12/6/2023 1:26	12/6/2023 1:27	0:00:40	-39.08	-39.55	423.96	-40.61	-37.01	424.68	-142.85	1.15
573	12/6/2023 1:28	12/6/2023 1:30	0:01:30	-42.77	-32.97	425.70	-45.69	-26.35	427.08	-141.95	2.05
574	12/6/2023 1:35	12/6/2023 1:37	0:01:30	-51.75	5.39	430.04	-51.62	14.35	430.08	-142.66	1.34
575	12/6/2023 1:38	12/6/2023 1:44	0:05:30	-51.02	21.19	429.90	-43.07	48.98	426.74	-140.77	3.23
576	12/6/2023 1:44	12/6/2023 1:46	0:01:20	-41.66	51.73	426.15	-38.64	56.87	424.86	-142.11	1.89
577	12/6/2023 1:46	12/6/2023 1:48	0:02:00	-37.03	59.26	424.17	-31.92	65.82	422.00	-140.49	3.51
578	12/6/2023 1:49	12/6/2023 1:50	0:00:50	-29.22	68.80	420.88	-26.91	71.16	419.94	-141.81	2.19
579	12/6/2023 1:51	12/6/2023 2:01	0:10:20	-25.03	72.97	419.20	6.00	96.66	410.95	-140.22	3.78
580	12/6/2023 2:02	12/6/2023 2:04	0:01:50	8.04	98.13	410.75	13.59	102.25	410.40	-141.75	2.25
581	12/6/2023 2:06	12/6/2023 2:07	0:00:30	21.00	108.23	410.43	22.46	109.50	410.49	-142.82	1.18
582	12/6/2023 2:08	12/6/2023 2:11	0:03:00	26.27	113.04	410.74	34.39	122.01	411.62	-140.67	3.33
583	12/6/2023 2:13	12/6/2023 2:14	0:01:20	38.52	127.79	412.21	41.57	132.93	412.68	-142.81	1.19
584	12/6/2023 2:15	12/6/2023 2:16	0:00:20	44.65	139.32	413.18	45.28	140.83	413.28	-143.16	0.84
585	12/6/2023 2:17	12/6/2023 2:17	0:00:10	47.02	145.58	413.57	47.29	146.40	413.61	-143.38	0.62
586	12/6/2023 2:18	12/6/2023 2:20	0:02:00	48.30	149.78	413.77	50.61	160.68	414.11	-141.70	2.30
587	12/6/2023 2:20	12/6/2023 2:21	0:01:10	51.00	163.55	414.16	51.62	170.43	414.21	-142.70	1.30
588	12/6/2023 2:24	12/6/2023 2:24	0:00:00	51.43	-174.60	414.03	51.43	-174.60	414.03	-143.73	0.27
589	12/6/2023 2:24	12/6/2023 2:31	0:07:00	51.03	-170.69	413.91	39.77	-136.73	411.38	-141.75	2.25
590	12/6/2023 2:35	12/6/2023 2:36	0:00:50	29.60	-123.37	409.70	27.29	-120.98	409.42	-143.16	0.84
591	12/6/2023 2:38	12/6/2023 2:50	0:12:20	22.06	-116.09	408.95	-15.23	-88.25	414.07	-141.21	2.79
592	12/6/2023 2:51	12/6/2023 2:52	0:00:50	-17.21	-86.68	414.76	-19.67	-84.66	415.66	-141.72	2.28
593	12/6/2023 2:59	12/6/2023 3:00	0:00:20	-39.37	-62.64	424.19	-40.13	-61.38	424.55	-143.37	0.63
594	12/6/2023 3:01	12/6/2023 3:02	0:01:40	-42.68	-56.70	425.75	-45.91	-49.33	427.27	-141.91	2.09
595	12/6/2023 3:08	12/6/2023 3:10	0:01:30	-51.77	-17.43	430.13	-51.58	-8.47	430.14	-142.41	1.59
596	12/6/2023 3:11	12/6/2023 3:16	0:05:40	-51.05	-2.61	429.97	-42.81	25.94	426.68	-140.73	3.27
597	12/6/2023 3:17	12/6/2023 3:19	0:01:30	-41.39	28.67	426.08	-37.94	34.36	424.60	-142.08	1.92
598	12/6/2023 3:19	12/6/2023 3:21	0:02:00	-36.31	36.70	423.90	-31.14	43.14	421.71	-140.67	3.33
599	12/6/2023 3:22	12/6/2023 3:23	0:00:40	-28.42	46.08	420.58	-26.56	47.94	419.83	-142.12	1.88
600	12/6/2023 3:24	12/6/2023 3:34	0:09:50	-23.73	50.62	418.72	5.87	73.01	410.97	-139.95	4.05
601	12/6/2023 3:34	12/6/2023 3:36	0:01:50	7.91	74.47	410.76	13.46	78.59	410.41	-141.74	2.26
602	12/6/2023 3:39	12/6/2023 3:39	0:00:30	21.36	84.99	410.44	22.81	86.26	410.51	-142.97	1.03
603	12/6/2023 3:41	12/6/2023 3:42	0:01:00	27.08	90.28	410.81	29.85	93.14	411.08	-141.56	2.44
604	12/6/2023 3:42	12/6/2023 3:43	0:01:00	31.20	94.64	411.23	33.84	97.77	411.56	-141.86	2.14
605	12/6/2023 3:45	12/6/2023 3:46	0:01:10	38.42	104.07	412.21	41.11	108.53	412.63	-143.13	0.87
606	12/6/2023 3:48	12/6/2023 3:48	0:00:20	44.57	115.57	413.19	45.20	117.07	413.30	-142.94	1.06
607	12/6/2023 3:49	12/6/2023 3:50	0:00:10	46.95	121.81	413.58	47.22	122.63	413.63	-143.60	0.40
608	12/6/2023 3:50	12/6/2023 3:52	0:02:10	48.24	126.00	413.79	50.71	137.83	414.17	-141.47	2.53
609	12/6/2023 3:53	12/6/2023 3:54	0:01:00	51.09	140.71	414.22	51.60	146.61	414.26	-142.71	1.29
610	12/6/2023 3:55	12/6/2023 3:55	0:00:00	51.79	153.61	414.23	51.79	153.61	414.23	-143.94	0.06
611	12/6/2023 3:57	12/6/2023 3:57	0:00:00	51.36	162.57	414.06	51.36	162.57	414.06	-143.86	0.14
612	12/6/2023 3:57	12/6/2023 4:04	0:07:10	51.06	165.50	413.97	39.48	-159.82	411.39	-141.75	2.25
613	12/6/2023 4:08	12/6/2023 4:09	0:00:50	29.26	-146.57	409.72	26.94	-144.20	409.44	-143.28	0.72
614	12/6/2023 4:11	12/6/2023 4:25	0:13:40	21.22	-138.92	408.96	-20.03	-107.92	415.79	-141.23	2.77
615	12/6/2023 4:27	12/6/2023 4:27	0:00:00	-25.32	-103.20	417.88	-25.32	-103.20	417.88	-143.14	0.86
616	12/6/2023 4:32	12/6/2023 4:32	0:00:10	-39.27	-86.36	424.10	-39.65	-85.74	424.28	-143.86	0.14
617	12/6/2023 4:33	12/6/2023 4:35	0:01:50	-42.59	-80.44	425.65	-46.13	-72.31	427.31	-141.86	2.14
618	12/6/2023 4:41	12/6/2023 4:42	0:01:30	-51.76	-41.24	430.04	-51.59	-32.29	430.05	-142.42	1.58
619	12/6/2023 4:44	12/6/2023 4:49	0:05:40	-50.96	-25.46	429.85	-42.55	2.90	426.47	-140.71	3.29
620	12/6/2023 4:50	12/6/2023 4:51	0:01:30	-41.12	5.60	425.86	-37.64	11.24	424.38	-142.00	2.00
621	12/6/2023 4:52	12/6/2023 4:54	0:02:00	-36.00	13.57	423.68	-30.80	19.96	421.48	-140.85	3.15
622	12/6/2023 4:55	12/6/2023 4:56	0:00:30	-27.61	23.34	420.17	-26.21	24.72	419.61	-142.53	1.47
623	12/6/2023 4:57	12/6/2023 5:07	0:09:40	-22.89	27.81	418.32	6.25	49.72	410.89	-139.64	4.36
624	12/6/2023 5:07	12/6/2023 5:09	0:01:50	7.78	50.82	410.74	13.33	54.93	410.39	-142.07	1.93
625	12/6/2023 5:10	12/6/2023 5:10	0:00:10	17.32	58.05	410.33	17.81	58.45	410.34	-143.87	0.13
626	12/6/2023 5:12	12/6/2023 5:12	0:00:30	21.73	61.74	410.44	23.17	63.02	410.52	-142.96	1.04
627	12/6/2023 5:14	12/6/2023 5:16	0:02:00	27.43	67.07	410.83	32.86	73.01	411.43	-141.14	2.86

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)
628	12/6/2023 5:18	12/6/2023 5:19	0:01:00	38.72	80.97	412.25	41.01	84.80	412.61	-143.43	0.57
629	12/6/2023 5:21	12/6/2023 5:21	0:00:20	44.49	91.82	413.18	45.12	93.32	413.28	-142.66	1.34
630	12/6/2023 5:22	12/6/2023 5:22	0:00:10	46.88	98.05	413.57	47.16	98.86	413.62	-143.76	0.24
631	12/6/2023 5:23	12/6/2023 5:24	0:00:30	48.42	103.08	413.83	49.09	105.72	413.93	-141.44	2.56
632	12/6/2023 5:24	12/6/2023 5:25	0:01:00	49.69	108.42	414.03	50.68	114.02	414.17	-142.52	1.48
633	12/6/2023 5:26	12/6/2023 5:27	0:01:00	51.06	116.91	414.22	51.59	122.80	414.28	-142.55	1.45
634	12/6/2023 5:29	12/6/2023 5:29	0:00:00	51.39	138.76	414.09	51.39	138.76	414.09	-143.89	0.11
635	12/6/2023 5:30	12/6/2023 5:37	0:07:10	50.97	142.66	413.98	39.19	177.09	411.37	-141.75	2.25
636	12/6/2023 5:41	12/6/2023 5:42	0:00:40	28.45	-169.29	409.66	26.59	-167.42	409.45	-143.57	0.43
637	12/6/2023 5:44	12/6/2023 5:47	0:02:50	20.85	-162.17	408.98	12.43	-155.42	408.88	-141.66	2.34
638	12/6/2023 5:47	12/6/2023 5:58	0:10:20	10.91	-154.29	408.94	-20.40	-131.17	415.90	-141.82	2.18
639	12/6/2023 5:59	12/6/2023 6:00	0:00:20	-25.20	-126.87	417.80	-26.14	-125.97	418.19	-142.06	1.94
640	12/6/2023 6:02	12/6/2023 6:02	0:00:10	-31.63	-120.21	420.56	-32.07	-119.69	420.75	-143.87	0.13
641	12/6/2023 6:06	12/6/2023 6:08	0:01:50	-42.50	-104.18	425.55	-46.05	-96.07	427.20	-141.83	2.17
642	12/6/2023 6:14	12/6/2023 6:15	0:01:30	-51.78	-64.06	429.97	-51.55	-55.11	429.95	-142.35	1.65
643	12/6/2023 6:16	12/6/2023 6:22	0:05:40	-50.87	-48.30	429.73	-42.29	-20.14	426.28	-140.72	3.28
644	12/6/2023 6:23	12/6/2023 6:27	0:04:30	-40.84	-17.46	425.66	-29.56	-2.25	420.89	-141.07	2.93
645	12/6/2023 6:28	12/6/2023 6:29	0:00:40	-27.73	-0.34	420.15	-25.86	1.50	419.40	-142.42	1.58
646	12/6/2023 6:30	12/6/2023 6:34	0:04:10	-21.57	5.42	417.76	-9.15	15.21	413.77	-140.30	3.70
647	12/6/2023 6:35	12/6/2023 6:39	0:04:20	-6.62	17.04	413.13	6.64	26.43	410.83	-139.16	4.84
648	12/6/2023 6:40	12/6/2023 6:42	0:01:50	8.16	27.53	410.68	13.71	31.66	410.36	-142.29	1.71
649	12/6/2023 6:43	12/6/2023 6:43	0:00:10	17.69	34.79	410.33	18.18	35.19	410.33	-143.94	0.06
650	12/6/2023 6:45	12/6/2023 6:45	0:00:00	22.09	38.50	410.46	22.09	38.50	410.46	-143.66	0.34

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 8.26 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -7.74 dB

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

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
62	12/5/2023 18:39	12/5/2023 18:39	0:00:00	51.79	-66.34	414.25	51.79	-66.34	414.25	-143.88	0.12
63	12/5/2023 19:51	12/5/2023 19:54	0:02:20	8.79	-167.09	410.92	15.83	-161.78	410.59	-140.87	3.13
64	12/5/2023 19:54	12/5/2023 19:55	0:00:30	17.32	-160.59	410.58	18.80	-159.39	410.60	-141.81	2.19
65	12/5/2023 19:55	12/5/2023 19:55	0:00:00	20.27	-158.16	410.63	20.27	-158.16	410.63	-143.26	0.74
66	12/5/2023 19:56	12/5/2023 19:56	0:00:10	23.65	-155.18	410.78	24.13	-154.75	410.81	-143.07	0.93
67	12/5/2023 19:57	12/5/2023 19:59	0:02:16	26.03	-152.96	410.94	32.26	-146.35	411.55	-142.62	1.38
68	12/5/2023 20:13	12/5/2023 20:15	0:01:20	51.12	-77.22	413.96	49.97	-69.64	413.64	-142.72	1.28
69	12/5/2023 20:16	12/5/2023 20:16	0:00:40	48.99	-65.12	413.39	48.06	-61.64	413.16	-142.75	1.25
70	12/5/2023 21:49	12/5/2023 21:49	0:00:40	48.59	-87.10	413.37	47.62	-83.72	413.13	-142.32	1.68
71	12/5/2023 21:50	12/5/2023 21:53	0:03:00	46.54	-80.43	412.88	40.55	-67.37	411.56	-140.34	3.66
72	12/5/2023 21:55	12/5/2023 21:56	0:00:55	35.77	-60.08	410.64	33.41	-57.04	410.24	-143.57	0.43
73	12/5/2023 23:26	12/5/2023 23:27	0:00:30	39.46	-89.10	411.33	38.29	-87.25	411.10	-142.36	1.64
74	12/5/2023 23:27	12/5/2023 23:28	0:00:30	36.66	-84.87	410.80	35.41	-83.16	410.57	-142.90	1.10
75	12/5/2023 23:29	12/5/2023 23:31	0:02:20	31.94	-78.86	410.01	25.51	-72.13	409.20	-143.34	0.66
76	12/5/2023 23:32	12/5/2023 23:32	0:00:00	23.61	-70.35	409.02	23.61	-70.35	409.02	-143.29	0.71
77	12/6/2023 2:53	12/6/2023 2:55	0:01:09	-23.82	-81.03	417.28	-27.08	-77.93	418.64	-140.29	3.71
78	12/6/2023 2:55	12/6/2023 2:57	0:01:20	-29.38	-75.56	419.64	-32.96	-71.53	421.23	-142.00	2.00
79	12/6/2023 2:58	12/6/2023 2:58	0:00:00	-35.11	-68.83	422.21	-35.11	-68.83	422.21	-143.98	0.02
80	12/6/2023 2:58	12/6/2023 2:59	0:01:10	-36.36	-67.13	422.79	-39.17	-62.95	424.10	-143.56	0.44
81	12/6/2023 4:06	12/6/2023 4:09	0:02:29	34.41	-152.55	410.48	27.74	-144.99	409.53	-142.01	1.99
82	12/6/2023 4:09	12/6/2023 4:10	0:00:20	26.33	-143.60	409.38	25.39	-142.70	409.28	-142.35	1.65
83	12/6/2023 4:10	12/6/2023 4:10	0:00:00	23.96	-141.36	409.15	23.96	-141.36	409.15	-142.69	1.31
84	12/6/2023 4:33	12/6/2023 4:33	0:00:10	-40.82	-83.74	424.83	-41.19	-83.09	425.00	-143.37	0.63
85	12/6/2023 4:34	12/6/2023 4:34	0:00:00	-44.31	-76.80	426.46	-44.31	-76.80	426.46	-143.75	0.25
86	12/6/2023 4:35	12/6/2023 4:35	0:00:10	-45.26	-74.55	426.90	-45.56	-73.79	427.05	-143.21	0.79
87	12/6/2023 5:42	12/6/2023 5:44	0:02:40	27.53	-168.34	409.55	19.88	-161.34	408.93	-141.10	2.90
88	12/6/2023 5:45	12/6/2023 5:45	0:00:00	17.91	-159.71	408.86	17.91	-159.71	408.86	-142.25	1.75
89	12/6/2023 5:46	12/6/2023 5:46	0:00:00	15.43	-157.73	408.83	15.43	-157.73	408.83	-143.98	0.02
90	12/6/2023 5:46	12/6/2023 5:48	0:01:40	13.93	-156.57	408.84	8.89	-152.81	409.07	-143.24	0.76
91	12/6/2023 5:48	12/6/2023 5:49	0:00:50	7.37	-151.70	409.19	4.82	-149.88	409.45	-142.90	1.10

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 6.44 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -9.56 dB

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

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	12/3/2023 17:44	12/3/2023 17:48	0:03:52	41.09	-86.18	258.90	48.45	-67.80	261.72	-134.96	9.04
2	12/3/2023 20:35	12/3/2023 20:42	0:06:30	9.85	-165.16	301.19	29.41	-148.31	278.76	-135.58	8.42
3	12/3/2023 22:30	12/3/2023 22:35	0:05:03	47.62	-82.01	270.34	36.92	-59.88	280.82	-134.93	9.07
4	12/4/2023 0:05	12/4/2023 0:10	0:04:50	39.00	-86.11	278.50	25.96	-70.26	292.75	-136.13	7.87
5	12/4/2023 3:28	12/4/2023 3:34	0:06:25	-23.29	-78.22	364.40	-40.21	-57.90	389.59	-137.83	6.17
6	12/4/2023 5:04	12/4/2023 5:08	0:03:40	-37.91	-84.68	386.18	-45.71	-69.58	396.47	-138.31	5.69
7	12/4/2023 6:13	12/4/2023 6:20	0:06:45	28.29	-165.06	289.16	7.93	-147.98	315.49	-134.57	9.43
8	12/4/2023 9:53	12/4/2023 9:56	0:02:47	-45.61	-69.64	391.73	-39.85	-57.85	382.55	-138.07	5.93
9	12/4/2023 11:27	12/4/2023 11:33	0:06:23	-40.86	-82.71	384.21	-24.18	-62.08	356.55	-137.93	6.07
10	12/4/2023 14:52	12/4/2023 14:54	0:02:07	27.10	-68.09	283.01	33.05	-61.57	277.27	-136.88	7.12
11	12/4/2023 16:24	12/4/2023 16:30	0:06:18	30.58	-87.54	279.77	45.70	-63.05	267.69	-134.55	9.45
12	12/4/2023 18:01	12/4/2023 18:02	0:00:27	46.71	-83.40	267.19	47.46	-81.10	266.75	-136.28	7.72
13	12/4/2023 18:03	12/4/2023 18:04	0:00:47	48.71	-76.67	266.05	49.72	-72.27	265.53	-136.84	7.16
14	12/4/2023 19:17	12/4/2023 19:22	0:05:10	5.80	-154.84	310.22	21.69	-142.48	289.63	-136.98	7.02
15	12/4/2023 20:52	12/4/2023 20:57	0:05:09	16.95	-169.63	320.20	31.93	-155.44	298.44	-136.31	7.69
16	12/4/2023 21:13	12/4/2023 21:15	0:02:32	49.43	-75.76	270.79	45.44	-62.56	272.38	-135.77	8.23
17	12/4/2023 22:47	12/4/2023 22:52	0:05:40	44.97	-84.61	272.59	31.22	-62.66	283.37	-134.62	9.38
18	12/5/2023 0:23	12/5/2023 0:25	0:02:43	33.63	-88.72	280.81	26.00	-80.39	288.67	-136.66	7.34
19	12/5/2023 2:12	12/5/2023 2:16	0:03:46	-21.75	-66.63	366.37	-32.34	-55.99	387.22	-139.16	4.84
20	12/5/2023 3:46	12/5/2023 3:52	0:06:20	-28.26	-83.67	378.95	-43.76	-61.35	409.36	-136.59	7.41
21	12/5/2023 4:57	12/5/2023 5:02	0:04:53	31.49	-155.76	282.37	17.18	-142.24	298.97	-135.82	8.18
22	12/5/2023 6:32	12/5/2023 6:39	0:06:53	23.97	-171.55	409.21	3.37	-155.45	409.67	-138.58	5.42
23	12/5/2023 10:16	12/5/2023 10:20	0:04:39	-44.70	-78.99	427.16	-34.10	-61.21	422.66	-138.61	5.39
24	12/5/2023 10:21	12/5/2023 10:22	0:01:13	-32.80	-59.61	422.11	-29.54	-55.94	420.76	-141.69	2.31
25	12/5/2023 11:53	12/5/2023 11:55	0:02:29	-35.31	-86.34	423.13	-28.73	-78.64	420.39	-139.99	4.01
26	12/5/2023 11:56	12/5/2023 11:58	0:02:32	-27.35	-77.23	419.84	-20.11	-70.60	417.09	-139.25	4.75
27	12/5/2023 15:18	12/5/2023 15:22	0:03:30	24.12	-84.07	410.73	33.72	-73.91	411.67	-138.64	5.36
28	12/5/2023 15:22	12/5/2023 15:26	0:04:07	35.00	-72.27	411.84	44.37	-56.41	413.26	-140.62	3.38
29	12/5/2023 16:57	12/5/2023 17:00	0:03:19	39.20	-89.77	412.47	46.09	-75.72	413.54	-138.75	5.25
30	12/5/2023 17:00	12/5/2023 17:03	0:02:16	46.94	-73.31	413.67	50.02	-61.40	414.13	-139.42	4.58
31	12/5/2023 18:18	12/5/2023 18:19	0:00:09	8.40	-143.81	410.97	8.87	-143.47	410.93	-136.91	7.09
32	12/5/2023 18:19	12/5/2023 18:19	0:00:10	10.39	-142.36	410.82	10.89	-141.98	410.79	-141.25	2.75
33	12/5/2023 18:20	12/5/2023 18:20	0:00:00	11.98	-141.17	410.73	11.98	-141.17	410.73	-143.25	0.75
34	12/5/2023 18:35	12/5/2023 18:36	0:00:38	49.68	-86.73	414.09	50.35	-83.17	414.17	-139.55	4.45
35	12/5/2023 18:37	12/5/2023 18:39	0:02:05	51.17	-77.22	414.26	51.79	-64.88	414.24	-139.23	4.77
36	12/5/2023 19:51	12/5/2023 19:59	0:08:15	8.32	-167.43	410.96	32.26	-146.35	411.55	-137.86	6.14
37	12/5/2023 20:13	12/5/2023 20:17	0:03:34	51.12	-77.22	413.96	46.92	-57.97	412.88	-139.71	4.29
38	12/5/2023 21:49	12/5/2023 21:53	0:04:30	48.59	-87.10	413.37	40.18	-66.72	411.49	-137.33	6.67
39	12/5/2023 21:54	12/5/2023 21:56	0:02:15	39.02	-64.82	411.25	33.41	-57.04	410.24	-140.56	3.44
40	12/5/2023 23:26	12/5/2023 23:32	0:06:40	40.60	-91.01	411.56	23.13	-69.92	408.98	-139.35	4.65
41	12/6/2023 2:53	12/6/2023 3:00	0:07:02	-23.82	-81.03	417.28	-41.91	-58.21	425.39	-137.27	6.73
42	12/6/2023 4:06	12/6/2023 4:11	0:04:37	34.41	-152.55	410.48	21.64	-139.29	408.99	-139.00	5.00
43	12/6/2023 4:32	12/6/2023 4:35	0:02:30	-40.47	-84.37	424.66	-45.56	-73.79	427.05	-140.20	3.80
44	12/6/2023 5:41	12/6/2023 5:49	0:08:00	28.44	-169.27	409.66	4.82	-149.88	409.45	-138.09	5.91

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 9.45 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -6.55 dB

Table 5 Approach CLS LowRate (5M93G1D) PFD Exceedances

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	12/3/2023 16:16	12/3/2023 16:25	0:08:59	44.14	-57.32	255.35	50.97	-5.87	258.49	-137.76	6.24
2	12/3/2023 16:33	12/3/2023 16:39	0:06:00	37.84	30.87	254.71	21.02	49.45	250.10	-139.98	4.02
3	12/3/2023 16:39	12/3/2023 17:15	0:36:10	19.50	50.75	249.77	-42.56	-168.59	253.99	-135.34	8.66
4	12/3/2023 17:17	12/3/2023 17:18	0:00:30	-38.28	-161.16	252.93	-37.02	-159.30	252.63	-142.92	1.08
5	12/3/2023 17:25	12/3/2023 17:55	0:29:30	-15.94	-137.71	248.89	50.99	-28.81	266.92	-135.00	9.00
6	12/3/2023 18:02	12/3/2023 18:06	0:04:00	37.07	9.26	281.20	26.12	22.05	293.48	-140.81	3.19
7	12/3/2023 18:07	12/3/2023 18:08	0:00:40	23.18	24.80	297.05	21.20	26.55	299.54	-142.94	1.06
8	12/3/2023 18:11	12/3/2023 18:11	0:00:00	13.60	32.72	309.57	13.60	32.72	309.57	-143.96	0.04
9	12/3/2023 18:12	12/3/2023 18:37	0:25:30	10.00	35.43	314.59	-51.66	122.16	402.65	-139.25	4.75
10	12/3/2023 18:41	12/3/2023 18:42	0:01:10	-50.69	141.88	399.76	-49.52	148.38	397.67	-142.83	1.17
11	12/3/2023 18:43	12/3/2023 18:44	0:00:40	-47.97	154.53	395.05	-46.93	157.86	393.32	-143.39	0.61
12	12/3/2023 18:45	12/3/2023 18:46	0:00:30	-44.23	164.85	388.86	-43.23	167.02	387.20	-142.59	1.41
13	12/3/2023 18:57	12/3/2023 19:26	0:28:20	-11.68	-157.52	333.62	50.93	-51.38	267.03	-136.69	7.31
14	12/3/2023 19:33	12/3/2023 19:38	0:04:10	36.84	-13.52	281.23	25.36	-0.34	294.10	-140.69	3.31
15	12/3/2023 19:38	12/3/2023 19:39	0:00:50	22.91	1.93	297.10	20.42	4.11	300.23	-143.05	0.95
16	12/3/2023 19:43	12/3/2023 20:08	0:25:30	9.71	12.53	314.67	-51.69	99.61	402.55	-139.27	4.73
17	12/3/2023 20:12	12/3/2023 20:13	0:01:10	-50.61	119.31	399.59	-49.41	125.78	397.47	-142.82	1.18
18	12/3/2023 20:14	12/3/2023 20:15	0:00:40	-47.83	131.90	394.83	-46.78	135.21	393.09	-143.37	0.63
19	12/3/2023 20:16	12/3/2023 20:17	0:00:40	-44.04	142.15	388.60	-42.69	145.02	386.36	-142.63	1.37
20	12/3/2023 20:28	12/3/2023 20:57	0:28:20	-11.38	179.58	333.34	50.85	-73.94	267.03	-136.77	7.23
21	12/3/2023 21:04	12/3/2023 21:09	0:04:10	36.60	-36.30	281.27	25.09	-23.19	294.20	-140.68	3.32
22	12/3/2023 21:10	12/3/2023 21:10	0:00:40	22.13	-20.49	297.82	20.14	-18.77	300.34	-143.12	0.88
23	12/3/2023 21:14	12/3/2023 21:39	0:25:20	9.42	-10.37	314.83	-51.67	76.08	402.47	-139.28	4.72
24	12/3/2023 21:42	12/3/2023 21:44	0:01:20	-50.67	95.79	399.65	-49.29	103.19	397.25	-142.82	1.18
25	12/3/2023 21:45	12/3/2023 21:46	0:00:40	-47.69	109.27	394.58	-46.62	112.56	392.82	-143.33	0.67
26	12/3/2023 21:47	12/3/2023 21:48	0:00:40	-43.85	119.46	388.30	-42.48	122.31	386.06	-142.67	1.33
27	12/3/2023 21:59	12/3/2023 22:27	0:28:10	-11.09	156.69	333.01	50.91	-97.48	266.96	-137.09	6.91
28	12/3/2023 22:30	12/3/2023 22:30	0:00:00	47.47	-81.53	270.48	47.47	-81.53	270.48	-143.98	0.02
29	12/3/2023 22:35	12/3/2023 22:40	0:04:30	36.35	-59.07	281.41	23.83	-45.14	295.57	-140.75	3.25
30	12/3/2023 22:41	12/3/2023 22:41	0:00:40	21.35	-42.93	298.63	19.35	-41.22	301.18	-143.46	0.54
31	12/3/2023 22:45	12/3/2023 23:10	0:25:20	9.12	-33.27	315.06	-51.69	53.54	402.47	-139.29	4.71
32	12/3/2023 23:13	12/3/2023 23:15	0:01:20	-50.58	73.22	399.56	-49.17	80.59	397.12	-142.82	1.18
33	12/3/2023 23:16	12/3/2023 23:17	0:00:40	-47.54	86.63	394.42	-46.45	89.90	392.65	-143.30	0.70
34	12/3/2023 23:18	12/3/2023 23:19	0:00:40	-43.66	96.76	388.10	-42.28	99.59	385.83	-142.71	1.29
35	12/3/2023 23:30	12/3/2023 23:58	0:28:00	-10.28	134.17	331.85	50.83	-120.03	266.93	-136.97	7.03
36	12/4/2023 0:01	12/4/2023 0:01	0:00:20	47.85	-105.89	269.97	47.32	-104.15	270.48	-143.91	0.09
37	12/4/2023 0:06	12/4/2023 0:11	0:04:40	36.11	-81.85	281.45	23.05	-67.55	296.27	-140.82	3.18
38	12/4/2023 0:12	12/4/2023 0:12	0:00:20	20.57	-65.36	299.38	19.56	-64.51	300.66	-143.78	0.22
39	12/4/2023 0:16	12/4/2023 0:41	0:25:10	8.82	-56.17	315.24	-51.68	30.00	402.56	-139.33	4.67
40	12/4/2023 0:44	12/4/2023 0:46	0:01:20	-50.50	50.65	399.54	-49.05	57.99	397.06	-142.82	1.18
41	12/4/2023 0:47	12/4/2023 0:48	0:00:50	-47.65	63.17	394.75	-46.29	67.25	392.54	-143.25	0.75
42	12/4/2023 0:49	12/4/2023 0:50	0:00:40	-43.47	74.06	387.95	-42.07	76.87	385.67	-142.77	1.23
43	12/4/2023 1:01	12/4/2023 1:29	0:28:00	-9.99	111.27	331.53	50.76	-142.57	266.76	-136.93	7.07
44	12/4/2023 1:32	12/4/2023 1:32	0:00:20	47.70	-128.50	269.83	47.16	-126.77	270.34	-143.84	0.16
45	12/4/2023 1:37	12/4/2023 1:40	0:03:00	35.86	-104.62	281.39	27.63	-95.03	290.46	-140.94	3.06
46	12/4/2023 1:41	12/4/2023 1:42	0:01:20	26.19	-93.60	292.16	22.27	-89.96	296.92	-142.23	1.77
47	12/4/2023 1:47	12/4/2023 2:12	0:25:20	9.04	-79.44	314.62	-51.70	7.48	402.49	-139.36	4.64
48	12/4/2023 2:15	12/4/2023 2:17	0:01:20	-50.41	28.10	399.39	-48.92	35.40	396.88	-142.81	1.19
49	12/4/2023 2:18	12/4/2023 2:19	0:00:50	-47.49	40.55	394.56	-46.12	44.61	392.33	-143.19	0.81
50	12/4/2023 2:20	12/4/2023 2:21	0:00:40	-43.26	51.37	387.71	-41.86	54.16	385.43	-142.82	1.18
51	12/4/2023 2:33	12/4/2023 3:00	0:27:50	-9.17	88.76	330.40	50.67	-165.11	266.84	-136.87	7.13
52	12/4/2023 3:03	12/4/2023 3:03	0:00:20	47.55	-151.11	269.92	47.00	-149.39	270.43	-143.77	0.23
53	12/4/2023 3:08	12/4/2023 3:11	0:03:00	35.60	-127.40	281.51	27.35	-117.87	290.60	-140.96	3.04
54	12/4/2023 3:12	12/4/2023 3:13	0:01:20	25.42	-115.98	292.88	21.48	-112.39	297.70	-142.17	1.83
55	12/4/2023 3:17	12/4/2023 3:43	0:25:30	9.25	-102.72	314.09	-51.72	-15.05	402.53	-139.39	4.61
56	12/4/2023 3:46	12/4/2023 3:48	0:01:20	-50.31	5.53	399.33	-48.79	12.80	396.80	-142.81	1.19
57	12/4/2023 3:49	12/4/2023 3:50	0:00:50	-47.34	17.92	394.44	-45.94	21.95	392.20	-143.14	0.86

Table 5 Approach CLS LowRate (5M93G1D) PFD Exceedances

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
58	12/4/2023 3:51	12/4/2023 3:52	0:00:40	-43.06	28.67	387.56	-41.65	31.44	385.26	-142.86	1.14
59	12/4/2023 4:04	12/4/2023 4:31	0:27:40	-8.35	66.24	329.32	50.59	172.34	266.93	-136.79	7.21
60	12/4/2023 4:34	12/4/2023 4:34	0:00:20	47.39	-173.73	270.02	46.83	-172.02	270.54	-143.70	0.30
61	12/4/2023 4:39	12/4/2023 4:42	0:03:00	35.35	-150.18	281.65	27.07	-140.71	290.76	-140.99	3.01
62	12/4/2023 4:43	12/4/2023 4:45	0:01:20	24.65	-138.37	293.62	20.69	-134.82	298.50	-142.08	1.92
63	12/4/2023 4:48	12/4/2023 5:14	0:25:20	8.95	-125.61	314.28	-51.70	-38.57	402.42	-139.43	4.57
64	12/4/2023 5:17	12/4/2023 5:19	0:01:20	-50.22	-17.03	399.11	-48.66	-9.80	396.54	-142.81	1.19
65	12/4/2023 5:20	12/4/2023 5:21	0:00:50	-47.18	-4.71	394.17	-45.77	-0.70	391.91	-143.08	0.92
66	12/4/2023 5:22	12/4/2023 5:23	0:00:40	-42.86	5.97	387.23	-41.43	8.72	384.92	-142.87	1.13
67	12/4/2023 5:35	12/4/2023 6:02	0:27:40	-8.05	43.34	329.00	50.50	149.80	266.98	-136.90	7.10
68	12/4/2023 6:05	12/4/2023 6:05	0:00:40	47.50	162.79	269.84	46.37	166.18	270.87	-143.63	0.37
69	12/4/2023 6:10	12/4/2023 6:14	0:03:10	35.10	-172.96	281.75	26.31	-163.07	291.45	-140.96	3.04
70	12/4/2023 6:14	12/4/2023 6:16	0:01:30	24.37	-161.22	293.76	19.90	-157.26	299.28	-142.23	1.77

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 7.21 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -8.79 dB

Table 6 Berthed TDRS SSA (6M16G1D) PFD Exceedances

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	2/21/2022 18:34	2/21/2022 18:44	0:10:00	51.60	-159.03	421.49	40.38	-106.70	417.25	-143.46	0.54
2	2/21/2022 20:50	2/21/2022 21:07	0:16:40	-49.23	-30.90	434.64	-31.15	50.57	429.97	-143.72	0.28
3	2/21/2022 22:31	2/21/2022 22:50	0:19:50	-49.86	-11.26	436.44	0.14	52.79	420.84	-143.54	0.46
4	2/22/2022 2:01	2/22/2022 2:18	0:16:20	15.71	16.97	419.36	51.33	79.61	421.70	-143.51	0.49
5	2/22/2022 3:55	2/22/2022 4:06	0:10:40	50.19	84.43	420.49	27.83	127.96	414.81	-143.41	0.59
6	2/22/2022 6:12	2/22/2022 6:31	0:19:50	-51.79	-147.99	436.22	-9.72	-72.22	422.76	-143.58	0.42
7	2/22/2022 8:26	2/22/2022 8:42	0:16:10	48.48	-30.87	421.91	33.78	50.51	415.93	-143.44	0.56
8	2/22/2022 10:04	2/22/2022 10:24	0:20:00	51.78	-26.86	421.47	8.90	49.40	413.43	-143.38	0.62
9	2/22/2022 12:55	2/22/2022 13:15	0:19:50	26.09	-139.23	419.93	47.25	-45.28	419.39	-143.51	0.49
10	2/22/2022 13:55	2/22/2022 14:05	0:09:50	-51.72	88.65	435.99	-39.87	139.23	433.03	-143.78	0.22
11	2/22/2022 17:42	2/22/2022 18:07	0:25:40	46.26	-179.49	421.62	10.62	-69.83	413.45	-143.38	0.62
12	2/22/2022 19:26	2/22/2022 19:53	0:26:40	47.06	-139.09	419.28	-26.81	-64.67	423.00	-143.38	0.62
13	2/22/2022 20:36	2/22/2022 20:55	0:19:50	16.21	94.23	419.48	51.14	178.30	421.00	-143.51	0.49
14	2/22/2022 21:39	2/22/2022 22:01	0:22:30	-51.54	-32.70	435.93	-6.09	54.46	422.04	-143.56	0.44
15	2/22/2022 23:30	2/22/2022 23:42	0:12:00	-17.17	22.54	424.89	19.09	49.37	419.44	-143.51	0.49
16	2/23/2022 1:12	2/23/2022 1:30	0:17:10	11.09	19.53	419.59	50.86	81.57	421.91	-143.51	0.49
17	2/23/2022 3:07	2/23/2022 3:17	0:10:10	50.83	86.50	420.89	31.13	130.51	415.42	-143.42	0.58
18	2/23/2022 4:45	2/23/2022 4:55	0:09:50	43.88	87.47	418.57	18.40	118.98	413.79	-143.39	0.61
19	2/23/2022 6:24	2/23/2022 6:39	0:14:30	28.01	86.66	414.96	-15.42	120.26	418.45	-143.39	0.61
20	2/23/2022 8:09	2/23/2022 8:24	0:14:40	-7.33	90.62	415.99	-45.98	135.62	432.32	-143.44	0.56
21	2/23/2022 9:51	2/23/2022 10:02	0:10:50	-34.12	91.08	426.15	-51.72	141.88	435.93	-143.65	0.35
22	2/23/2022 10:58	2/23/2022 11:16	0:18:30	40.82	-0.92	417.51	-12.30	47.08	417.08	-143.38	0.62
23	2/23/2022 18:35	2/23/2022 19:02	0:26:40	51.04	-151.14	420.93	-17.10	-67.16	418.88	-143.38	0.62
24	2/23/2022 20:51	2/23/2022 21:10	0:19:40	-51.19	-30.68	435.38	-16.71	52.59	424.76	-143.62	0.38
25	2/23/2022 22:39	2/23/2022 23:00	0:20:20	-27.78	19.14	428.34	32.15	68.12	420.30	-143.51	0.49
26	2/24/2022 0:31	2/24/2022 0:41	0:10:50	27.12	39.12	419.86	50.09	82.80	422.08	-143.52	0.48
27	2/24/2022 2:04	2/24/2022 2:18	0:14:00	28.48	16.90	419.96	51.77	80.65	421.65	-143.52	0.48
28	2/24/2022 4:38	2/24/2022 4:53	0:15:20	-51.57	-130.22	435.83	-20.32	-68.34	425.60	-143.63	0.37
29	2/24/2022 6:10	2/24/2022 6:20	0:10:10	-51.76	-157.84	435.77	-36.29	-108.81	431.20	-143.75	0.25
30	2/24/2022 7:18	2/24/2022 7:34	0:15:30	2.42	89.80	414.12	-41.30	131.52	429.60	-143.40	0.60
31	2/24/2022 9:25	2/24/2022 9:45	0:20:10	-38.76	-159.64	432.43	19.75	-109.16	419.81	-143.51	0.49
32	2/24/2022 12:05	2/24/2022 12:17	0:12:40	-20.63	36.21	419.79	-49.58	83.31	433.92	-143.52	0.48
33	2/24/2022 15:33	2/24/2022 15:48	0:15:50	-46.40	90.38	434.74	-4.57	138.49	421.74	-143.56	0.44
34	2/24/2022 18:53	2/24/2022 19:04	0:10:50	-7.68	89.08	422.32	24.85	113.80	419.81	-143.51	0.49
35	2/24/2022 20:01	2/24/2022 20:20	0:19:00	-49.52	-34.96	434.04	-24.02	52.45	426.99	-143.66	0.34
36	2/24/2022 22:18	2/24/2022 22:28	0:10:00	45.81	97.10	421.93	49.51	153.28	420.64	-143.53	0.47
37	2/25/2022 1:15	2/25/2022 1:30	0:14:40	25.19	19.74	419.80	51.80	83.70	421.92	-143.52	0.48
38	2/25/2022 3:50	2/25/2022 4:04	0:14:30	-51.78	-129.12	435.51	-25.12	-66.55	427.05	-143.66	0.34
39	2/25/2022 5:23	2/25/2022 5:36	0:13:00	-51.58	-147.82	435.57	-27.02	-91.98	427.70	-143.68	0.32

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 0.62 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -15.38 dB

Table 6 Berthed TDRS SSA (6M16G1D) PFD Exceedances

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	2/21/2022 18:34	2/21/2022 18:44	0:10:00	51.60	-159.03	421.49	40.38	-106.70	417.25	-141.55	2.45
2	2/21/2022 20:50	2/21/2022 21:07	0:16:40	-49.23	-30.90	434.64	-31.15	50.57	429.97	-141.81	2.19
3	2/21/2022 22:31	2/21/2022 22:50	0:19:50	-49.86	-11.26	436.44	0.14	52.79	420.84	-141.63	2.37
4	2/22/2022 2:01	2/22/2022 2:18	0:16:20	15.71	16.97	419.36	51.33	79.61	421.70	-141.60	2.40
5	2/22/2022 3:55	2/22/2022 4:06	0:10:40	50.19	84.43	420.49	27.83	127.96	414.81	-141.50	2.50
6	2/22/2022 6:12	2/22/2022 6:31	0:19:50	-51.79	-147.99	436.22	-9.72	-72.22	422.76	-141.67	2.33
7	2/22/2022 8:26	2/22/2022 8:42	0:16:10	48.48	-30.87	421.91	33.78	50.51	415.93	-141.53	2.47
8	2/22/2022 10:04	2/22/2022 10:24	0:20:00	51.78	-26.86	421.47	8.90	49.40	413.43	-141.47	2.53
9	2/22/2022 12:55	2/22/2022 13:15	0:19:50	26.09	-139.23	419.93	47.25	-45.28	419.39	-141.60	2.40
10	2/22/2022 13:55	2/22/2022 14:05	0:09:50	-51.72	88.65	435.99	-39.87	139.23	433.03	-141.87	2.13
11	2/22/2022 17:42	2/22/2022 18:07	0:25:40	46.26	-179.49	421.62	10.62	-69.83	413.45	-141.47	2.53
12	2/22/2022 19:26	2/22/2022 19:53	0:26:40	47.06	-139.09	419.28	-26.81	-64.67	423.00	-141.47	2.53
13	2/22/2022 20:36	2/22/2022 20:55	0:19:50	16.21	94.23	419.48	51.14	178.30	421.00	-141.60	2.40
14	2/22/2022 21:39	2/22/2022 22:01	0:22:30	-51.54	-32.70	435.93	-6.09	54.46	422.04	-141.65	2.35
15	2/22/2022 23:30	2/22/2022 23:42	0:12:00	-17.17	22.54	424.89	19.09	49.37	419.44	-141.60	2.40
16	2/23/2022 1:12	2/23/2022 1:30	0:17:10	11.09	19.53	419.59	50.86	81.57	421.91	-141.60	2.40
17	2/23/2022 3:07	2/23/2022 3:17	0:10:10	50.83	86.50	420.89	31.13	130.51	415.42	-141.51	2.49
18	2/23/2022 4:45	2/23/2022 4:55	0:09:50	43.88	87.47	418.57	18.40	118.98	413.79	-141.48	2.52
19	2/23/2022 6:24	2/23/2022 6:39	0:14:30	28.01	86.66	414.96	-15.42	120.26	418.45	-141.48	2.52
20	2/23/2022 8:09	2/23/2022 8:24	0:14:40	-7.33	90.62	415.99	-45.98	135.62	432.32	-141.53	2.47
21	2/23/2022 9:51	2/23/2022 10:02	0:10:50	-34.12	91.08	426.15	-51.72	141.88	435.93	-141.74	2.26
22	2/23/2022 10:58	2/23/2022 11:16	0:18:30	40.82	-0.92	417.51	-12.30	47.08	417.08	-141.47	2.53
23	2/23/2022 18:35	2/23/2022 19:02	0:26:40	51.04	-151.14	420.93	-17.10	-67.16	418.88	-141.47	2.53
24	2/23/2022 20:51	2/23/2022 21:10	0:19:40	-51.19	-30.68	435.38	-16.71	52.59	424.76	-141.71	2.29
25	2/23/2022 22:39	2/23/2022 23:00	0:20:20	-27.78	19.14	428.34	32.15	68.12	420.30	-141.60	2.40
26	2/24/2022 0:31	2/24/2022 0:41	0:10:50	27.12	39.12	419.86	50.09	82.80	422.08	-141.61	2.39
27	2/24/2022 2:04	2/24/2022 2:18	0:14:00	28.48	16.90	419.96	51.77	80.65	421.65	-141.61	2.39
28	2/24/2022 4:38	2/24/2022 4:53	0:15:20	-51.57	-130.22	435.83	-20.32	-68.34	425.60	-141.72	2.28
29	2/24/2022 6:10	2/24/2022 6:20	0:10:10	-51.76	-157.84	435.77	-36.29	-108.81	431.20	-141.84	2.16
30	2/24/2022 7:18	2/24/2022 7:34	0:15:30	2.42	89.80	414.12	-41.30	131.52	429.60	-141.49	2.51
31	2/24/2022 9:25	2/24/2022 9:45	0:20:10	-38.76	-159.64	432.43	19.75	-109.16	419.81	-141.60	2.40
32	2/24/2022 12:05	2/24/2022 12:17	0:12:40	-20.63	36.21	419.79	-49.58	83.31	433.92	-141.61	2.39
33	2/24/2022 15:33	2/24/2022 15:48	0:15:50	-46.40	90.38	434.74	-4.57	138.49	421.74	-141.65	2.35
34	2/24/2022 18:53	2/24/2022 19:04	0:10:50	-7.68	89.08	422.32	24.85	113.80	419.81	-141.60	2.40
35	2/24/2022 20:01	2/24/2022 20:20	0:19:00	-49.52	-34.96	434.04	-24.02	52.45	426.99	-141.75	2.25
36	2/24/2022 22:18	2/24/2022 22:28	0:10:00	45.81	97.10	421.93	49.51	153.28	420.64	-141.62	2.38
37	2/25/2022 1:15	2/25/2022 1:30	0:14:40	25.19	19.74	419.80	51.80	83.70	421.92	-141.61	2.39
38	2/25/2022 3:50	2/25/2022 4:04	0:14:30	-51.78	-129.12	435.51	-25.12	-66.55	427.05	-141.75	2.25
39	2/25/2022 5:23	2/25/2022 5:36	0:13:00	-51.58	-147.82	435.57	-27.02	-91.98	427.70	-141.77	2.23

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 2.53 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -13.47 dB

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

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	2/21/2022 17:16	2/21/2022 17:17	0:01:19	28.98	-68.07	414.86	25.31	-64.41	414.30	-140.21	3.79
2	2/21/2022 20:38	2/21/2022 20:45	0:06:42	-20.96	-76.12	420.73	-38.93	-55.90	429.09	-138.85	5.15
3	2/21/2022 22:16	2/21/2022 22:21	0:05:22	-33.93	-86.48	426.59	-45.90	-65.52	432.76	-139.00	5.00
4	2/22/2022 3:12	2/22/2022 3:15	0:03:01	-46.53	-69.80	435.31	-40.55	-56.77	433.24	-140.97	3.03
5	2/22/2022 4:47	2/22/2022 4:54	0:07:09	-42.12	-83.20	433.69	-23.81	-59.99	427.01	-138.56	5.44
6	2/22/2022 8:15	2/22/2022 8:20	0:05:29	22.39	-71.85	419.59	37.21	-55.47	420.77	-139.35	4.65
7	2/22/2022 9:50	2/22/2022 9:58	0:08:30	27.97	-90.17	419.97	47.43	-58.06	421.78	-138.99	5.01
8	2/22/2022 11:29	2/22/2022 11:35	0:05:06	44.42	-89.73	421.56	51.22	-63.12	421.83	-138.94	5.06
9	2/22/2022 13:09	2/22/2022 13:11	0:02:25	51.79	-77.24	421.60	51.04	-62.82	420.89	-139.23	4.77
10	2/22/2022 14:45	2/22/2022 14:45	0:00:12	50.81	-84.60	420.81	50.64	-83.47	420.74	-141.98	2.02
11	2/22/2022 14:45	2/22/2022 14:51	0:05:23	50.32	-81.49	420.59	41.52	-55.44	417.69	-138.89	5.11
12	2/22/2022 16:21	2/22/2022 16:29	0:07:42	46.13	-89.22	419.14	27.96	-60.94	414.72	-138.91	5.09
13	2/22/2022 17:59	2/22/2022 18:03	0:04:16	34.32	-91.73	415.90	22.59	-79.43	413.95	-140.52	3.48
14	2/22/2022 19:50	2/22/2022 19:56	0:05:35	-20.05	-70.82	420.16	-35.41	-54.91	427.06	-139.22	4.78
15	2/22/2022 21:27	2/22/2022 21:33	0:06:25	-29.53	-85.48	424.27	-44.77	-62.25	431.91	-139.37	4.63
16	2/23/2022 3:59	2/23/2022 4:05	0:06:52	-43.92	-80.83	434.14	-27.10	-57.04	428.06	-138.82	5.18
17	2/23/2022 5:36	2/23/2022 5:41	0:04:20	-32.47	-86.44	429.94	-20.37	-74.48	425.73	-139.03	4.97
18	2/23/2022 9:02	2/23/2022 9:10	0:08:27	25.29	-86.72	419.88	45.74	-56.83	421.80	-137.94	6.06
19	2/23/2022 10:40	2/23/2022 10:46	0:06:06	40.57	-91.27	421.31	50.59	-61.92	422.04	-139.84	4.16
20	2/23/2022 12:19	2/23/2022 12:20	0:00:14	50.65	-85.08	422.06	50.85	-83.72	422.05	-140.95	3.05
21	2/23/2022 12:21	2/23/2022 12:23	0:02:11	51.52	-77.25	421.93	51.66	-64.11	421.45	-139.41	4.59
22	2/23/2022 13:57	2/23/2022 14:02	0:04:19	50.84	-78.79	420.95	44.92	-56.49	418.78	-139.12	4.88
23	2/23/2022 15:33	2/23/2022 15:40	0:07:37	47.84	-88.30	419.83	31.11	-58.23	415.32	-138.68	5.32
24	2/23/2022 17:10	2/23/2022 17:16	0:05:46	37.85	-90.50	416.83	22.34	-73.13	413.95	-139.12	4.88
25	2/23/2022 19:04	2/23/2022 19:06	0:02:42	-21.82	-63.21	420.68	-29.44	-55.90	423.97	-138.34	5.66
26	2/23/2022 20:38	2/23/2022 20:45	0:06:58	-25.80	-83.17	422.39	-43.23	-59.59	430.84	-138.49	5.51
27	2/24/2022 3:11	2/24/2022 3:17	0:06:07	-45.30	-77.95	434.41	-31.11	-55.19	429.38	-139.10	4.90
28	2/24/2022 4:47	2/24/2022 4:53	0:06:12	-37.01	-86.23	431.42	-20.12	-68.18	425.53	-140.11	3.89
29	2/24/2022 8:14	2/24/2022 8:22	0:08:01	23.27	-82.50	419.83	43.58	-55.82	421.74	-138.62	5.38
30	2/24/2022 9:51	2/24/2022 9:58	0:07:03	36.31	-91.77	420.96	49.73	-60.59	422.19	-140.13	3.87
31	2/24/2022 11:31	2/24/2022 11:34	0:03:51	49.21	-86.57	422.22	51.79	-64.39	421.87	-139.48	4.52
32	2/24/2022 13:09	2/24/2022 13:13	0:03:25	51.36	-77.25	421.37	47.79	-58.46	419.84	-139.97	4.03
33	2/24/2022 14:44	2/24/2022 14:52	0:07:08	49.04	-86.66	420.39	34.61	-56.35	416.13	-140.04	3.96
34	2/24/2022 16:21	2/24/2022 16:28	0:07:00	41.76	-90.91	418.01	23.69	-68.26	414.15	-138.24	5.76
35	2/24/2022 19:50	2/24/2022 19:57	0:07:04	-22.83	-79.83	420.95	-41.21	-57.41	429.55	-139.73	4.27
36	2/24/2022 21:28	2/24/2022 21:32	0:03:54	-38.41	-85.66	428.12	-46.45	-69.36	432.29	-140.05	3.95
37	2/25/2022 2:23	2/25/2022 2:28	0:04:41	-45.96	-73.58	434.43	-35.79	-54.86	430.92	-139.61	4.39
38	2/25/2022 3:59	2/25/2022 4:05	0:06:50	-40.07	-84.88	432.33	-22.07	-63.77	426.04	-139.83	4.17

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 6.06 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -9.94 dB

Table 9 Departure TRDS SSA (6M16G1D) PFD Exceedances

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
60	4/21/2023 21:15	4/21/2023 21:36	0:21:10	-47.15	-43.25	201.11	-19.89	57.02	314.41	-136.25	7.75
61	4/21/2023 22:16	4/21/2023 22:40	0:23:20	36.74	-152.58	337.51	-33.79	-90.92	197.44	-134.81	9.19
62	4/21/2023 22:55	4/21/2023 23:18	0:23:30	-48.99	-11.02	236.30	15.45	60.12	388.19	-137.99	6.01
63	4/21/2023 23:27	4/21/2023 23:32	0:04:50	39.47	85.65	418.16	48.59	107.08	417.54	-142.61	1.39
64	4/21/2023 23:33	4/21/2023 23:33	0:00:20	50.02	113.31	415.37	50.35	115.16	414.61	-143.26	0.74
65	4/21/2023 23:34	4/21/2023 23:34	0:00:00	50.80	117.98	413.34	50.80	117.98	413.34	-143.85	0.15
66	4/21/2023 23:35	4/21/2023 23:36	0:01:20	51.37	122.79	410.91	51.83	130.68	406.20	-142.38	1.62
67	4/21/2023 23:37	4/21/2023 23:44	0:07:30	51.84	134.67	403.48	42.81	174.29	358.22	-141.53	2.47
68	4/21/2023 23:45	4/21/2023 23:46	0:01:10	41.73	176.38	354.44	39.06	-179.04	345.34	-142.29	1.71
69	4/22/2023 0:02	4/22/2023 0:16	0:13:20	-10.76	-135.10	220.28	-47.03	-89.62	200.55	-134.81	9.19
70	4/22/2023 0:33	4/22/2023 0:50	0:17:30	-32.56	-1.46	282.16	20.05	40.85	395.18	-140.07	3.93
71	4/22/2023 0:51	4/22/2023 0:51	0:00:10	21.51	42.09	397.48	21.99	42.51	398.23	-143.77	0.23
72	4/22/2023 0:51	4/22/2023 0:52	0:00:50	23.43	43.79	400.39	25.80	45.99	403.78	-142.62	1.38
73	4/22/2023 0:53	4/22/2023 0:57	0:04:20	28.12	48.28	406.86	39.22	62.24	417.51	-141.53	2.47
74	4/22/2023 1:08	4/22/2023 1:15	0:06:10	51.39	119.95	396.95	42.68	151.55	357.91	-141.48	2.52
75	4/22/2023 1:15	4/22/2023 1:24	0:08:30	41.60	153.62	354.13	18.57	-179.63	284.33	-141.47	2.53
76	4/22/2023 1:46	4/22/2023 2:02	0:16:50	-45.92	-115.73	199.36	-34.20	-26.47	277.36	-136.26	7.74
77	4/22/2023 2:05	4/22/2023 2:32	0:27:00	-26.77	-18.23	295.55	47.81	58.30	417.35	-140.24	3.76
78	4/22/2023 2:35	4/22/2023 2:55	0:19:40	51.02	73.58	410.70	16.74	158.86	224.65	-139.63	4.37
79	4/22/2023 2:57	4/22/2023 3:13	0:16:00	8.31	165.26	192.89	-40.66	-149.78	73.98	-128.03	15.97
80	4/22/2023 3:16	4/22/2023 3:24	0:07:30	-43.48	-144.34	28.51	-43.49	-144.32	0.04	-63.05	80.95

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 80.95 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: 64.95 dB

Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	4/21/2023 16:40	4/21/2023 17:20	0:40:40	-49.87	37.60	433.40	39.46	178.83	426.46	-139.84	4.16
2	4/21/2023 18:04	4/21/2023 18:13	0:09:10	-31.81	-23.30	423.89	-50.16	15.53	433.71	-140.27	3.73
3	4/21/2023 18:24	4/21/2023 18:55	0:30:50	-41.89	77.50	434.39	43.69	163.07	426.70	-140.07	3.93
4	4/21/2023 18:58	4/21/2023 19:02	0:04:00	48.56	176.55	426.98	51.80	-160.74	426.40	-140.80	3.20
5	4/21/2023 19:02	4/21/2023 19:13	0:11:00	51.85	-157.74	426.24	35.51	-104.29	418.84	-139.97	4.03
6	4/21/2023 19:16	4/21/2023 19:54	0:38:10	27.97	-95.57	416.71	-47.07	41.76	435.52	-139.03	4.97
7	4/21/2023 19:57	4/21/2023 20:25	0:28:00	-41.65	54.35	434.29	37.60	128.76	425.00	-139.94	4.06
8	4/21/2023 20:28	4/21/2023 20:40	0:12:10	43.88	139.88	423.18	48.12	-153.45	378.62	-140.09	3.91
9	4/21/2023 20:43	4/21/2023 21:02	0:18:50	43.02	-140.13	358.63	-12.04	-88.14	217.81	-135.20	8.80
10	4/21/2023 21:15	4/21/2023 21:36	0:21:10	-47.15	-43.25	201.11	-19.89	57.02	314.41	-134.34	9.66
11	4/21/2023 22:16	4/21/2023 22:40	0:23:20	36.74	-152.58	337.51	-33.79	-90.92	197.44	-132.90	11.10
12	4/21/2023 22:55	4/21/2023 23:18	0:23:30	-48.99	-11.02	236.30	15.45	60.12	388.19	-136.08	7.92
13	4/21/2023 23:27	4/21/2023 23:46	0:18:50	39.47	85.65	418.16	39.06	-179.04	345.34	-139.62	4.38
14	4/22/2023 0:02	4/22/2023 0:16	0:13:20	-10.76	-135.10	220.28	-47.03	-89.62	200.55	-132.90	11.10
15	4/22/2023 0:33	4/22/2023 0:57	0:24:40	-32.56	-1.46	282.16	39.22	62.24	417.51	-138.16	5.84
16	4/22/2023 1:08	4/22/2023 1:24	0:15:10	51.39	119.95	396.95	18.57	-179.63	284.33	-139.56	4.44
17	4/22/2023 1:46	4/22/2023 2:02	0:16:50	-45.92	-115.73	199.36	-34.20	-26.47	277.36	-134.35	9.65
18	4/22/2023 2:05	4/22/2023 2:32	0:27:00	-26.77	-18.23	295.55	47.81	58.30	417.35	-138.33	5.67
19	4/22/2023 2:35	4/22/2023 2:55	0:19:40	51.02	73.58	410.70	16.74	158.86	224.65	-137.72	6.28
20	4/22/2023 2:57	4/22/2023 3:13	0:16:00	8.31	165.26	192.89	-40.66	-149.78	73.98	-126.12	17.88
21	4/22/2023 3:16	4/22/2023 3:24	0:07:30	-43.48	-144.34	28.51	-43.49	-144.32	0.04	-61.14	82.86

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 82.86 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: 66.86 dB

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

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	4/21/2023 17:38	4/21/2023 17:38	0:00:00	41.21	-89.46	420.90	41.21	-89.46	420.90	-143.59	0.41
2	4/21/2023 17:43	4/21/2023 17:43	0:00:00	27.68	-71.68	416.69	27.68	-71.68	416.69	-143.53	0.47
3	4/21/2023 21:07	4/21/2023 21:10	0:03:50	-26.73	-75.69	201.17	-37.45	-62.99	196.72	-135.01	8.99

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 8.99 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -7.01 dB

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

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	4/21/2023 17:37	4/21/2023 17:40	0:02:59	43.99	-94.96	421.97	37.33	-83.21	419.52	-140.58	3.42
2	4/21/2023 17:40	4/21/2023 17:44	0:03:50	35.67	-80.90	418.97	25.33	-69.39	416.14	-140.52	3.48
3	4/21/2023 21:07	4/21/2023 21:10	0:03:50	-26.73	-75.69	201.17	-37.45	-62.99	196.72	-132.00	12.00

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 12.00
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-0068B Limit: -4.00

dB
 dB

Table 13 Departure CLS LowRate (5M93G1D) PFD Exceedances

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m ² /4kHz)	PFD Non-Compliance (dB)
1	4/21/2023 17:17	4/21/2023 17:18	0:00:50	32.39	169.16	425.67	34.56	171.82	425.91	-143.13	0.87
2	4/21/2023 17:19	4/21/2023 17:21	0:02:10	36.24	174.05	426.10	41.34	-177.94	426.66	-142.90	1.10
3	4/21/2023 17:22	4/21/2023 17:23	0:00:50	42.77	-175.22	426.80	44.45	-171.63	426.95	-142.84	1.16
4	4/21/2023 17:23	4/21/2023 17:24	0:00:10	46.00	-167.82	427.07	46.29	-167.04	427.08	-143.66	0.34
5	4/21/2023 18:03	4/21/2023 18:04	0:00:20	-31.37	-23.81	423.69	-32.26	-22.78	424.10	-143.60	0.40
6	4/21/2023 18:04	4/21/2023 18:06	0:01:20	-33.57	-21.21	424.71	-36.94	-16.76	426.34	-142.28	1.72
7	4/21/2023 18:06	4/21/2023 18:09	0:02:20	-38.55	-14.38	427.15	-43.69	-5.10	429.84	-142.64	1.36
8	4/21/2023 18:10	4/21/2023 18:10	0:00:00	-45.61	-0.64	430.90	-45.61	-0.64	430.90	-143.92	0.08
9	4/21/2023 18:50	4/21/2023 18:51	0:00:50	32.69	145.91	425.53	34.85	148.58	425.77	-143.12	0.88
10	4/21/2023 18:52	4/21/2023 18:54	0:02:20	36.11	150.26	425.91	41.59	158.91	426.50	-142.89	1.11
11	4/21/2023 18:55	4/21/2023 18:56	0:01:00	42.66	160.95	426.61	44.67	165.27	426.78	-142.83	1.17
12	4/21/2023 18:56	4/21/2023 18:56	0:00:10	45.90	168.32	426.87	46.20	169.10	426.89	-143.72	0.28
13	4/21/2023 19:36	4/21/2023 19:37	0:00:20	-31.67	-47.06	423.82	-32.55	-46.04	424.23	-143.60	0.40
14	4/21/2023 19:37	4/21/2023 19:39	0:01:20	-33.86	-44.45	424.84	-37.22	-39.97	426.46	-142.27	1.73
15	4/21/2023 19:39	4/21/2023 19:41	0:02:20	-38.43	-38.18	427.07	-43.58	-28.94	429.76	-142.62	1.38
16	4/21/2023 19:42	4/21/2023 19:43	0:00:10	-45.51	-24.49	430.82	-45.81	-23.71	430.99	-143.96	0.04
17	4/21/2023 20:09	4/21/2023 20:37	0:27:20	-8.78	88.64	426.02	51.62	-173.97	399.54	-142.34	1.66
18	4/21/2023 21:03	4/21/2023 21:03	0:00:00	-15.72	-85.30	212.61	-15.72	-85.30	212.61	-143.88	0.12
19	4/21/2023 21:04	4/21/2023 21:04	0:00:00	-18.33	-83.20	209.33	-18.33	-83.20	209.33	-143.21	0.79
20	4/21/2023 21:05	4/21/2023 21:18	0:13:50	-20.40	-81.47	206.97	-51.33	-23.06	210.99	-135.60	8.40
21	4/21/2023 21:28	4/21/2023 21:28	0:00:20	-42.75	29.13	256.97	-42.02	30.56	259.05	-143.26	0.74
22	4/21/2023 21:30	4/21/2023 21:31	0:01:20	-36.80	39.07	273.00	-33.29	43.67	281.93	-143.35	0.65
23	4/21/2023 21:33	4/21/2023 21:37	0:03:30	-27.72	49.83	295.69	-17.38	59.09	320.28	-142.63	1.37
24	4/21/2023 21:53	4/21/2023 21:53	0:00:20	30.09	96.36	410.54	30.98	97.35	411.55	-143.96	0.04
25	4/21/2023 21:54	4/21/2023 21:59	0:05:20	32.75	99.38	413.42	44.96	119.36	419.89	-142.68	1.32
26	4/21/2023 22:00	4/21/2023 22:00	0:00:20	46.17	122.42	419.58	46.74	124.00	419.33	-143.59	0.41
27	4/21/2023 22:34	4/21/2023 22:35	0:00:10	-18.48	-106.09	209.37	-19.00	-105.66	208.76	-143.31	0.69
28	4/21/2023 22:35	4/21/2023 22:49	0:13:40	-21.06	-103.92	206.46	-51.36	-45.78	210.81	-135.56	8.44
29	4/21/2023 22:58	4/21/2023 22:58	0:00:20	-42.65	6.33	256.57	-41.91	7.76	258.63	-143.35	0.65
30	4/21/2023 23:01	4/21/2023 23:02	0:01:20	-36.25	16.83	273.65	-32.71	21.36	282.59	-143.11	0.89
31	4/21/2023 23:04	4/21/2023 23:07	0:03:30	-27.58	26.97	295.19	-17.23	36.20	319.76	-142.36	1.64
32	4/21/2023 23:23	4/21/2023 23:24	0:00:30	30.23	73.51	410.08	31.57	75.01	411.58	-143.95	0.05
33	4/21/2023 23:24	4/21/2023 23:30	0:05:20	32.89	76.54	412.96	45.07	96.60	419.48	-142.67	1.33
34	4/21/2023 23:30	4/21/2023 23:31	0:00:20	46.26	99.67	419.17	46.83	101.26	418.92	-143.57	0.43
35	4/22/2023 0:05	4/22/2023 0:05	0:00:00	-19.16	-128.53	208.75	-19.16	-128.53	208.75	-143.60	0.40
36	4/22/2023 0:06	4/22/2023 0:19	0:13:40	-21.22	-126.78	206.45	-51.39	-68.46	210.62	-135.54	8.46
37	4/22/2023 0:29	4/22/2023 0:29	0:00:20	-42.53	-16.44	256.19	-41.79	-15.02	258.25	-143.51	0.49
38	4/22/2023 0:30	4/22/2023 0:30	0:00:00	-39.45	-10.95	264.56	-39.45	-10.95	264.56	-143.98	0.02
39	4/22/2023 0:31	4/22/2023 0:33	0:01:10	-35.67	-5.39	274.34	-32.56	-1.46	282.16	-143.10	0.90
40	4/22/2023 0:35	4/22/2023 0:38	0:02:40	-25.49	6.00	299.38	-17.56	12.93	318.12	-142.39	1.61
41	4/22/2023 0:54	4/22/2023 0:54	0:00:30	30.39	50.68	409.63	31.73	52.18	411.14	-143.98	0.02
42	4/22/2023 0:55	4/22/2023 1:00	0:05:20	33.04	53.73	412.52	45.18	73.86	419.06	-142.66	1.34
43	4/22/2023 1:01	4/22/2023 1:01	0:00:20	46.37	76.95	418.76	46.92	78.54	418.51	-143.56	0.44
44	4/22/2023 1:36	4/22/2023 1:36	0:00:00	-19.34	-151.39	208.76	-19.34	-151.39	208.76	-143.30	0.70
45	4/22/2023 1:36	4/22/2023 1:50	0:13:40	-21.40	-149.63	206.47	-51.42	-91.11	210.55	-135.55	8.45
46	4/22/2023 1:59	4/22/2023 1:59	0:00:30	-42.77	-39.92	254.92	-41.66	-37.77	257.99	-143.68	0.32
47	4/22/2023 2:00	4/22/2023 2:00	0:00:20	-40.11	-35.04	262.17	-39.31	-33.72	264.29	-143.43	0.57
48	4/22/2023 2:02	4/22/2023 2:03	0:01:20	-35.96	-28.77	272.94	-32.40	-24.28	281.84	-142.92	1.08
49	4/22/2023 2:06	4/22/2023 2:08	0:02:30	-24.83	-16.37	300.19	-17.38	-9.93	317.73	-142.40	1.60
50	4/22/2023 2:18	4/22/2023 2:38	0:19:50	12.30	11.71	380.98	51.80	90.30	397.88	-142.00	2.00
51	4/22/2023 2:57	4/22/2023 2:57	0:00:10	9.37	164.48	196.76	8.84	164.87	194.82	-143.84	0.16
52	4/22/2023 3:03	4/22/2023 3:03	0:00:10	-11.21	179.27	131.79	-11.75	179.68	130.38	-142.98	1.02
53	4/22/2023 3:04	4/22/2023 3:04	0:00:30	-13.38	-179.09	126.27	-14.99	-177.84	122.33	-140.35	3.65
54	4/22/2023 3:05	4/22/2023 3:05	0:00:10	-16.60	-176.57	118.56	-17.14	-176.14	117.35	-139.41	4.59
55	4/22/2023 3:06	4/22/2023 3:24	0:18:00	-18.74	-174.83	113.82	-43.49	-144.32	0.04	-62.27	81.73

Maximum exceedance to -144 dBW/m²/4 kHz ITU/FCC Limit : 81.73 dB
 Maximum exceedance to -128 dBW/m²/4 kHz PIRN 50885-NA-00688 Limit: 65.73 dB