

S96 Cassini ESA Uplink Test #2

2016/312, Monday November 7, 2016 PST

OWLTL = ~01:30:35, RTLTL = ~03:01:10

Canberra DSS-35 related activities

New Norcia DSS-74 related activities

Madrid DSS-54 related activities

Time ERT	Time PDT	Event	Comments
DOY 312 November 7			
		Bit rate 1896 throughout	
05:30:00	9:30 PM	DSS-35 Pre-Cal	Pass# 0312. Cassini specific 4th-order pointing model
06:55:19	10:55 PM	S-band ON	RSS3BRWAF Opmode
07:00:00	11:00 PM	DSS-35 BOT	
07:00:00	11:00 PM	DSS-35 Acquire X-band signal, 1-way	
07:00:16	11:00 PM	Ka-band ON	RSS3BRWAF Opmode
07:00:16	11:00 PM	DSS-35 Acquire Ka-band signal, 1-way	
07:00:16	11:00 PM	DSS-35 Enable Monopulse	At Ka-band 1-way acquisition
07:10:00	11:10 PM	DSS-35 Transmitter ON, 18 kW, Ramped, SWEEP	
08:15:00	12:15 AM	DSS-74 Pre-Cal	
08:30:00	12:30 AM	DSS-54 Pre-Cal	Pass# 0312. Cassini specific 4th-order pointing model
09:15:00	1:15 AM	DSS-74 BOT	
09:15:00	1:15 AM	DSS-74 Acquire X- and S-band signals, 1-way	
09:25:00	1:25 AM	DSS-74 Transmitter ON, 18 kW, Ramped	Uplink transfer from DSS-35 to DSS-74
09:25:05	1:25 AM	DSS-35 Transmitter OFF	
09:55:00	1:55 AM	DSS-74 Transmitter OFF	
10:00:00	2:00 AM	DSS-54 BOT	
10:00:00	2:00 AM	DSS-54 Acquire X- and Ka-band signals, 1-way	
10:00:00	2:00 AM	DSS-54 Enable Monopulse	After Ka-band 1-way acquisition
10:05:00	2:05 AM	DSS-74 Transmitter ON, 18 kW, Ramped, SWEEP	
10:09:00	2:09 AM	DSS-35 Disable Monopulse without clearing the offsets	Before mode switch to 2-way
10:09:00	2:09 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 3-way
10:11:13	2:11 AM	DSS-35 Tracking mode change to 2-way	
10:11:13	2:11 AM	DSS-35 Enable Monopulse	After Ka-band 2-way acquisition
10:11:13	2:11 AM	DSS-74 Tracking mode change to 3-way w/ DSS-35	
10:11:13	2:11 AM	DSS-54 Tracking mode change to 3-way w/ DSS-35	
10:11:13	2:11 AM	DSS-54 Enable Monopulse	After Ka-band 3-way acquisition
10:20:00	2:20 AM	DSS-35 EOT	
10:30:00	2:30 AM	DSS-54 Transmitter ON, 18 kW, Ramped	Uplink transfer from DSS-74 to DSS-54
10:30:05	2:30 AM	DSS-74 Transmitter OFF	
11:30:00	3:30 AM	DSS-74 EOT	

Time ERT	Time PDT	Event	Comments
12:26:14	4:26 AM	DSS-54 Tracking mode change to 3-way w/ DSS-74	
12:54:00	4:54 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 1-way
12:56:10	4:56 AM	DSS-54 Tracking mode change to 1-way	
12:56:10	4:56 AM	DSS-54 Enable Monopulse	After Ka-band 1-way acquisition
13:04:00	5:04 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 3-way
13:06:10	5:06 AM	DSS-54 Tracking mode change to 3-way w/ DSS-74	
13:06:10	5:06 AM	DSS-54 Enable Monopulse	
13:31:14	5:31 AM	DSS-54 Tracking mode change to 2-way	
13:45:00	5:45 AM	DSS-54 Transmitter OFF	
13:50:00	5:50 AM	DSS-54 EOT	
15:00:00	7:00 AM	S- and Ka-band OFF	