

SpaceCalc					STS-117/ISS-13 Countdown	
T-HH	T-MM	L-HH	L-MM	L-SS	EDT	
Tue 06/05/07						
43	00	70	32	00	08:30:00 PM 09:00:00 PM	Call to stations Countdown begins
Wed 06/06/07						
33	00	60	32	00	07:00:00 AM	Fuel cell reactant load preps
27	20	58	32	00	09:00:00 AM	LC-39 periphery walkdown
27	00	54	32	00	01:00:00 PM	Clear crew module
27	00	54	32	00	01:00:00 PM	Clear personnel from BDA
27	00	54	32	00	01:00:00 PM	Begin 4-hour built-in hold
27	00	53	47	00	01:45:00 PM	Orbiter pyro-initiator controller test
27	00	53	37	00	01:55:00 PM	SRB PIC test
27	00	52	37	00	02:55:00 PM	Master events controller pre-flight BITE test
27	00	50	32	00	05:00:00 PM	Resume countdown
25	30	49	02	00	06:30:00 PM	Fuel cell oxygen loading begins
23	00	46	32	00	09:00:00 PM	Fuel cell oxygen load complete
23	00	46	32	00	09:00:00 PM	Fuel cell hydrogen loading begins
20	30	44	02	00	11:30:00 PM	Fuel cell hydrogen loading complete
Thu 06/07/07						
19	30	43	02	00	12:30:00 AM	Pad open; ingress white room
19	00	42	32	00	01:00:00 AM	Begin 4-hour built-in hold
19	00	42	32	00	01:00:00 AM	Crew module clean and vacuum
19	00	42	02	00	01:30:00 AM	OMBUU demate
19	00	40	32	00	03:00:00 AM	APU, engine covers off; RCS paper covers
19	00	38	32	00	05:00:00 AM	Countdown resumes
19	00	38	32	00	05:00:00 AM	Main engine preps
19	00	38	32	00	05:00:00 AM	MECs 1 and 2 on
17	30	37	02	00	06:30:00 AM	Remove OMS engine covers, throat plugs
17	00	36	02	00	07:30:00 AM	Deflate RSS dock seals; tile inspection
16	30	36	02	00	07:30:00 AM	Tile inspection
12	00	32	32	00	11:00:00 AM	TSM prepped for fueling
11	00	30	32	00	01:00:00 PM	Begin 13-hour 42-minute hold
11	00	28	32	00	03:00:00 PM	OIS communications check
11	00	27	42	00	03:50:00 PM	JSC flight control team on station
11	00	27	42	00	03:50:00 PM	ASP crew module cable inspection
11	00	27	32	00	04:00:00 PM	Crew weather briefing
11	00	26	32	00	05:00:00 PM	Comm activation
11	00	26	02	00	05:30:00 PM	Crew module voice checks
11	00	24	52	00	06:40:00 PM	Flight crew equipment late stow
11	00	21	02	00	10:30:00 PM	RSS to park position
11	00	20	02	00	11:30:00 PM	Final TPS, debris inspection
Fri 06/08/07						
11	00	19	02	00	12:30:00 AM	Ascent switch list
11	00	16	50	00	02:42:00 AM	Resume countdown
11	00	16	50	00	02:42:00 AM	Terminate pad tours
10	45	16	30	00	03:02:00 AM	APU bite test
10	40	16	30	00	03:02:00 AM	Pad clear of non-essential personnel
09	50	15	40	00	03:52:00 AM	Fuel cell activation
09	00	14	50	00	04:42:00 AM	Booster joint heater activation

08	30	14	20	00	05:12:00 AM	MEC pre-flight bite test
08	00	13	50	00	05:42:00 AM	Final fueling preps; launch area clear
06	15	12	05	00	07:27:00 AM	Fuel cell integrity checks complete
06	00	11	50	00	07:42:00 AM	Begin 2-hour built-in hold (T-minus 6 hours)
06	00	11	40	00	07:52:00 AM	Safe-and-arm PIC test
06	00	11	05	00	08:27:00 AM	Mission management team tanking meeting
06	00	10	20	00	09:12:00 AM	Test team ready for ET loading
06	00	10	20	00	09:12:00 AM	Orbiter ready for ET loading
06	00	09	50	00	09:42:00 AM	Resume countdown (T-minus 6 hours)
06	00	09	50	00	09:42:00 AM	LO2, LH2 transfer line chilldown
05	50	09	40	00	09:52:00 AM	Main propulsion system chill down
05	50	09	40	00	09:52:00 AM	LH2 slow fill
05	42	09	32	00	10:00:00 AM	Astronaut wakeup
05	20	09	10	00	10:22:00 AM	LO2 slow fill
05	04	09	05	00	10:27:00 AM	Hydrogen ECO sensors go wet
05	10	09	00	00	10:32:00 AM	LO2 fast fill
05	00	08	50	00	10:42:00 AM	LH2 fast fill
03	45	07	35	00	11:57:00 AM	LH2 topping
03	05	06	55	00	12:37:00 PM	LH2 replenish
03	00	06	50	00	12:42:00 PM	LO2 replenish
03	00	06	50	00	12:42:00 PM	Begin 3-hour built-in hold (T-minus 3 hours)
03	00	06	50	00	12:42:00 PM	Closeout crew to white room
03	00	06	50	00	12:42:00 PM	External tank in stable replenish mode
03	00	06	35	00	12:57:00 PM	Astronaut support personnel comm checks
03	00	06	02	00	01:30:00 PM	NASA TV coverage begins
03	00	06	05	00	01:27:00 PM	Pre-ingress switch reconfig
03	00	05	47	00	01:45:00 PM	Astronaut photo opportunity
03	00	04	25	00	03:07:00 PM	Final crew weather briefing
03	00	04	15	00	03:17:00 PM	Astronauts don pressure suits
03	00	03	50	00	03:42:00 PM	Resume countdown (T-minus 3 hours)
02	55	03	45	00	03:47:00 PM	Crew departs O&C building
02	05	03	15	00	04:17:00 PM	Crew ingress
01	35	02	25	00	05:07:00 PM	Astronaut comm checks
01	20	02	10	00	05:22:00 PM	Hatch closure
00	35	01	25	00	06:07:00 PM	White room closeout
00	20	01	10	00	06:22:00 PM	Begin 10-minute built-in hold (T-minus 20m)
00	20	01	00	00	06:32:00 PM	NASA test director countdown briefing
00	20	01	00	00	06:32:00 PM	Resume countdown (T-minus 20m)
00	19	00	59	00	06:33:00 PM	Backup flight computer to OPS 1
00	15	00	55	00	06:37:00 PM	KSC area clear to launch
00	09	00	49	00	06:43:00 PM	Begin final built-in hold (T-minus 9m)
00	09	00	44	00	06:54:02 PM	NTD launch status verification
00	09	00	09	00	07:29:02 PM	Resume countdown (T-minus 9m)
00	08	00	07	30	07:30:32 PM	Orbiter access arm retraction
00	00	00	05	00	07:32:00 PM	Launch window opens (actual: 7:32:55 PM)
00	05	00	05	00	07:33:02 PM	Hydraulic power system (APU) start
00	05	00	04	55	07:33:07 PM	Terminate LO2 replenish
00	04	00	04	00	07:34:02 PM	Purge sequence 4 hydraulic test
00	04	00	04	00	07:34:02 PM	IMUs to inertial
00	04	00	03	55	07:34:07 PM	Aerosurface profile
00	04	00	03	30	07:34:32 PM	Main engine steering test
00	03	00	02	55	07:35:07 PM	LO2 tank pressurization
00	03	00	02	35	07:35:27 PM	Fuel cells to internal reactants
00	03	00	02	30	07:35:32 PM	Clear caution-and-warning memory
00	02	00	02	00	07:36:02 PM	Crew closes visors
00	02	00	01	57	07:36:05 PM	LH2 tank pressurization
00	01	00	00	50	07:37:12 PM	SRB joint heater deactivation
00	01	00	00	31	07:37:31 PM	Shuttle GPCs take control of countdown

00	00	00	00	21	07:37:41 PM	SRB steering test
00	00	00	00	07	07:37:55 PM	Main engine start (T-6.6 seconds)
00	00	00	00	00	07:38:02 PM	SRB ignition (LAUNCH)
Source: NASA (06/04/07)						Prepared by William Harwood