

## SpaceCalc

## STS-115/ISS-12A Countdown

T-HH	T-MM	L-HH	L-MM	L-SS	EDT	Sat 09/09/06
08	00	12	05	00	11:04:00 PM	Fuel cell integrity checks complete
06	00	11	50	00	11:19:00 PM	Begin 2-hour built-in hold (T-minus 6 hours)
06	00	11	40	00	11:29:00 PM	Safe-and-arm PIC test
06	00	11	20	00	11:49:00 PM	External tank ready for fueling
06	00	11	00	00	12:09:00 AM	Mission management team tanking meeting
06	00	10	25	00	12:44:00 AM	Orbiter ready for ET loading
06	00	09	50	00	01:19:00 AM	Resume countdown (T-minus 6 hours)
06	00	09	50	00	01:19:00 AM	<b>LO2, LH2 transfer line chilldown</b>
05	50	09	40	00	01:29:00 AM	Main propulsion system chill down
05	40	09	40	00	01:29:00 AM	LH2 slow fill
05	20	09	20	00	01:49:00 AM	LO2 slow fill
05	04	09	04	00	02:05:00 AM	Hydrogen ECO sensors go wet
05	10	09	00	00	02:09:00 AM	LO2 fast fill
05	00	08	50	00	02:19:00 AM	LH2 fast fill
03	45	07	35	00	03:34:00 AM	LH2 topping
03	05	06	55	00	04:14:00 AM	LH2 replenish
03	05	06	50	00	04:19:00 AM	LO2 replenish
03	00	06	50	00	04:19:00 AM	Begin 3-hour built-in hold (T-minus 3 hours)
03	00	06	50	00	04:19:00 AM	Closeout crew to white room
03	00	06	50	00	04:19:00 AM	External tank in stable replenish mode
03	00	06	35	00	04:34:00 AM	Astronaut support personnel comm checks
03	00	06	09	00	05:00:00 AM	NASA TV coverage begins
03	00	06	05	00	05:04:00 AM	Pre-ingress switch reconfig
03	00	05	38	00	05:31:00 AM	Astronaut photo opportunity (time approximate)
03	00	04	24	00	06:45:00 AM	Crew weather briefing
03	00	04	14	00	06:55:00 AM	Astronauts don pressure suits
03	00	03	50	00	07:19:00 AM	Resume countdown (T-minus 3 hours)
02	55	03	45	00	07:24:00 AM	<b>Crew departs O&amp;C building</b>

02	05	03	15	00	07:54:00 AM	<b>Crew ingress</b>
01	35	02	25	00	08:44:00 AM	Astronaut comm checks
01	10	02	00	00	09:09:00 AM	Hatch closure
00	35	01	25	00	09:44:00 AM	White room closeout
00	20	01	10	00	09:59:00 AM	Begin 10-minute built-in hold (T-minus 20m)
00	20	01	08	00	10:01:00 AM	NASA test director countdown briefing
00	20	01	00	00	10:09:00 AM	Resume countdown (T-minus 20m)
00	19	00	59	00	10:10:00 AM	Backup flight computer to OPS 1
00	15	00	55	00	10:14:00 AM	KSC area clear to launch
00	09	00	49	00	10:20:00 AM	Begin final built-in hold (T-minus 9m)
00	09	00	44	00	10:30:55 AM	NTD launch status verification
00	09	00	09	00	11:05:55 AM	Resume countdown (T-minus 9m)
00	08	00	07	30	11:07:25 AM	Orbiter access arm retraction
00	00	00	05	00	11:09:00 AM	Launch window opens (actual: 11:09:55 a.m.)
00	05	00	05	00	11:09:55 AM	<b>Hydraulic power system (APU) start</b>
00	05	00	04	55	11:10:00 AM	Terminate LO2 replenish
00	04	00	04	00	11:10:55 AM	Purge sequence 4 hydraulic test
00	04	00	04	00	11:10:55 AM	IMUs to inertial
00	04	00	03	55	11:11:00 AM	Aerosurface profile
00	04	00	03	30	11:11:25 AM	Main engine steering test
00	03	00	02	55	11:12:00 AM	LO2 tank pressurization
00	03	00	02	35	11:12:20 AM	Fuel cells to internal reactants
00	03	00	02	30	11:12:25 AM	Clear caution-and-warning memory
00	02	00	02	00	11:12:55 AM	Crew closes visors
00	02	00	01	57	11:12:58 AM	LH2 tank pressurization
00	01	00	00	50	11:14:05 AM	SRB joint heater deactivation
00	01	00	00	31	11:14:24 AM	Shuttle GPCs take control of countdown
00	00	00	00	21	11:14:34 AM	SRB steering test
00	00	00	00	07	11:14:48 AM	Main engine start (T-6.6 seconds)
00	00	00	00	00	11:14:55 AM	<b>SRB ignition (LAUNCH)</b>
<b>Updated: 9/8/06</b>						<b>Prepared by William Harwood</b>