

STS-121 Entry Timeline			SpaceCalc
			Rev. 202 Deorbit to KSC
<p>KSC 202</p> <p>TIG: 08:07:15 AM dV: 206 mph dT: 03:02</p> <p>XR: 297 sm Range: 5120 sm Turn: 296</p> <p>Landing: 09:14:26 AM</p> <p>Runway: 33</p> <p>Wind Gusts: TBD</p> <p>Direction: TBD</p> <p>Crosswind: TBD</p> <p>Constraint: TBD</p>	TIG-0:20	07:47 AM	<p>MCC 'go' for deorbit burn MS seat ingress Single APU start</p> <p>Deorbit ignition Deorbit burn complete</p> <p>Entry interface</p> <p>107: EI+3:43 - Aerosurfaces work</p> <p>107: EI+4:30 - 1st unusual data</p> <p>107: EI+4:50 - 1st unusual heating</p> <p>1st roll command to left</p> <p>107: EI+5:07 - Roll jets off</p> <p>107: EI+5:51 - WLE temps 2,520</p> <p>107: EI+6:44 - Start peak heat</p> <p>107: EI+6:51 - WLE temps 2,650</p> <p>107: EI+7:05 - Plasma into wing</p> <p>107: EI+8:51 - WLE temps 2,800</p> <p>107: EI+10:15 - 1st MCC mention</p> <p>107: EI+11:53 - Aft RCS off</p> <p>107: EI+12:51 - WLE temps 2,900</p> <p>107: EI+13:51 - WLE temps 2,880</p> <p>107: EI+14:47 - Tire alarm</p> <p>107: EI+14:51 - WLE temps 2,850</p> <p>1st left-to-right roll reversal</p> <p>107: EI+15:23 - Last CDR call</p> <p>107: EI+15:23 - Initial LOS</p> <p>107: EI+15:56 - Last valid data</p> <p>107: EI+16:44 - End peak heat</p> <p>Velocity less than mach 2.5</p> <p>Velocity less than mach 1</p> <p>Shuttle on the HAC</p> <p>Landing</p>
	TIG-0:14	07:53 AM	
	TIG-0:05	08:02 AM	
	TIG-0:00	08:07:15 AM	
	TIG+3:02	08:10:17 AM	
		08:42:33 AM	
		08:46:16 AM	
		08:47:03 AM	
		08:47:23 AM	
		08:47:39 AM	
		08:47:40 AM	
		08:48:24 AM	
		08:49:17 AM	
		08:49:24 AM	
		08:49:38 AM	
		08:51:24 AM	
		08:52:48 AM	
	08:54:26 AM		
	08:55:24 AM		
	08:56:24 AM		
	08:57:20 AM		
	08:57:24 AM		
	08:57:30 AM		
	08:57:56 AM		
	08:57:56 AM		
	08:58:29 AM		
	08:59:17 AM		
	09:08:02 AM		
	09:10:10 AM		
	09:10:31 AM		
	09:14:26 AM		
			Rev. 203 Deorbit to KSC
<p>KSC 203</p> <p>TIG: 09:43:25 AM dV: 205 mph</p>	TIG-0:20	09:23 AM	<p>MCC 'go' for deorbit burn MS seat ingress Single APU start</p> <p>Deorbit ignition</p>
	TIG-0:14	09:29 AM	
	TIG-0:05	09:38 AM	
	TIG-0:00	09:43:25 AM	

dT: 3:01	TIG+3:01	09:46:26 AM	Deorbit burn complete
XR: 692 sm		10:18:04 AM	Entry interface
Range: 5,035 sm		10:21:47 AM	107: EI+3:43 - Aerosurfaces work
Turn: 259		10:22:34 AM	107: EI+4:30 - 1st unusual data
Landing:		10:22:54 AM	107: EI+4:50 - 1st unusual heating
10:49:48 AM		10:23:04 AM	1st roll command to left
Runway:		10:23:11 AM	107: EI+5:07 - Roll jets off
33		10:23:55 AM	107: EI+5:51 - WLE temps 2,520
Wind Gusts:		10:24:48 AM	107: EI+6:44 - Start peak heat
TBD		10:24:55 AM	107: EI+6:51 - WLE temps 2,650
Direction:		10:25:09 AM	107: EI+7:05 - Plasma into wing
TBD		10:26:55 AM	107: EI+8:51 - WLE temps 2,800
Crosswind:		10:28:19 AM	107: EI+10:15 - 1st MCC mention
TBD		10:29:57 AM	107: EI+11:53 - Aft RCS off
Constraint:		10:30:55 AM	107: EI+12:51 - WLE temps 2,900
TBD		10:31:55 AM	107: EI+13:51 - WLE temps 2,880
Constraint:		10:32:51 AM	107: EI+14:47 - Tire alarm
TBD		10:32:55 AM	107: EI+14:51 - WLE temps 2,850
Constraint:		10:33:27 AM	107: EI+15:23 - Last CDR call
TBD		10:33:27 AM	107: EI+15:23 - Initial LOS
Constraint:		10:34:00 AM	107: EI+15:56 - Last valid data
TBD		10:34:48 AM	107: EI+16:44 - End peak heat
		10:36:21 AM	1st left-to-right roll reversal
		10:43:25 AM	Velocity less than mach 2.5
		10:45:34 AM	Velocity less than mach 1
		10:46:12 AM	Shuttle on the HAC
		10:49:48 AM	Landing
			By William Harwood