

STS-97 Entry Timeline			SpaceCalc
Deorbit Ops	TIG-minus	Time	Rev. 170 Deorbit to KSC
KSC 170 TIG: 04:57:36 PM dV: 311 fps dT: 2:44 Xrange: 22 nm Landing: 06:03:45 PM 12/11/00 Runway: 15 Wind Gusts: 12 Direction: 150 Crosswind: 0.26 Constraint: None	TIG-4:00	12:57:36 PM	Begin deorbit timeline
	TIG-3:45	01:12:36 PM	Radiator stow
	TIG-3:35	01:22:36 PM	Mission specialists seat installation
	TIG-3:29	01:28:36 PM	DPS configured for deorbit prep
	TIG-3:25	01:32:36 PM	APU/hydraulic configuration
	TIG-3:00	01:57:36 PM	Flash evaporator checkout
	TIG-2:54	02:03:36 PM	Final payload deactivation
	TIG-2:40	02:17:36 PM	Payload bay doors closed
	TIG-2:30	02:27:36 PM	Mission control 'go' for OPS-3
	TIG-2:20	02:37:36 PM	OPS-3 transition
	TIG-1:55	03:02:36 PM	Entry switchlist verification
	TIG-1:45	03:12:36 PM	Deorbit PAD update
	TIG-1:40	03:17:36 PM	Crew entry review
	TIG-1:25	03:32:36 PM	CDR/PLT don entry suits
	TIG-1:08	03:49:36 PM	IMU alignment
	TIG-1:00	03:57:36 PM	CDR/PLT strap in; MS suit don
	TIG-0:43	04:14:36 PM	Shuttle steering check
	TIG-0:40	04:17:36 PM	APU prestart
	TIG-0:33	04:24:36 PM	Toilet deactivation
	TIG-0:25	04:32:36 PM	Vent doors closed for entry
	TIG-0:20	04:37:36 PM	MCC 'go' for deorbit burn
	TIG-0:14	04:43:36 PM	MS seat ingress
	TIG-0:05	04:52:36 PM	Single APU start
	TIG-0:00	04:57:36 PM	Deorbit ignition
		05:00:20 PM	Deorbit burn complete
		04:56:55 PM	AOS TDRS (pre TIG)
		05:32:10 PM	Entry interface
	05:37:01 PM	77-degree right roll	
	05:44:02 PM	58-degree right roll	
	05:57:07 PM	Velocity less than mach 2.5	
	05:59:17 PM	Velocity less than mach 1	
	06:00:10 PM	Shuttle on the HAC	
	06:03:45 PM	Landing	

	TIG-minus	Time	Rev. 171 Deorbit to EAFB
EAFB 171 TIG: 06:29:12 PM dV: 314 fps dT: 2:45 Xrange: 764 nm Landing: 07:35:24 PM Runway TBD	TIG-0:20 TIG-0:14 TIG-0:05 TIG-0:00	06:09:12 PM 06:15:12 PM 06:24:12 PM 06:29:12 PM 06:31:57 PM 06:37:26 PM 07:03:54 PM 07:20:55 PM 07:22:08 PM 07:31:51 PM 07:35:24 PM	MCC 'go' for deorbit burn MS seat ingress Single APU start Deorbit ignition Deorbit ignition complete AOS TDRS Entry interface Velocity less than mach 2.5 Velocity less than mach 1 Shuttle on the HAC Landing
	TIG-minus	Time	Rev. 171 Deorbit to KSC
KSC 171 TIG: 06:35:50 PM dV: 310 fps dT: 2:45 Xrange: 819 nm Landing: 07:41:33 PM Runway TBD	TIG-0:20 TIG-0:14 TIG-0:05 TIG-0:00	06:15:50 PM 06:21:50 PM 06:30:50 PM 06:35:50 PM 06:38:35 PM 06:37:18 PM 07:08:51 PM 07:34:04 PM 07:36:12 PM 07:37:20 PM 07:41:33 PM	MCC 'go' for deorbit burn MS seat ingress Single APU start Deorbit ignition Deorbit ignition complete AOS TDRS Entry interface Velocity less than mach 2.5 Velocity less than mach 1 Shuttle on the HAC Landing
	TIG-minus	Time	Rev. 172 Deorbit to EAFB
EAFB 172 TIG: 08:04:09 PM dV: 312 fps dT: 2:44 Xrange: 90 nm Landing: 09:09:40 PM Runway TBD	TIG-0:20 TIG-0:14 TIG-0:05 TIG-0:00	07:44:09 PM 07:50:09 PM 07:59:09 PM 08:04:09 PM 08:06:53 PM 08:14:40 PM 08:38:11 PM 09:03:08 PM 09:05:19 PM 09:06:40 PM 09:09:40 PM	MCC 'go' for deorbit burn MS seat ingress Single APU start Deorbit ignition Deorbit ignition complete AOS TDRS Entry interface Velocity less than mach 2.5 Velocity less than mach 1 Shuttle on the HAC Landing
Updated: 10:00 p.m., 12/10/00			By William Harwood