

# SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

MODEL NAME	DESCRIPTION
CREW ACTIVITY MODELS	
PRE-SLP	Pre-sleep activities
SLEEP	Sleep periods
POST-SLP	Post-sleep activities
H/O	Handover
D/P	Daily planning activities
LUNCH	Lunch periods
SYSTEM/SUBSYSTEM MODELS	
SL-ACT	Spacelab activation
INGRESS	Initial spacelab ingress
AG-1 H/O	MCC handover of A/G-1 to POCC
PL-ACT	Payload activation
SUBSYS	Subsystems resources
MDE	Mission dependent equipment resources
HDRR	High Data Rate Recorder operations
MPE	Mission peculiar equipment resources
ORB-SYS	Preparation for descent
CREW-SYS	Preparation for descent
SEATPREP	Preparation for descent
BURNPREP	Preparation for descent
ENTRYOPS	Preparation for re-entry
LAND-SEQ	Preparation for landing
PLBDCLOS	Payload bay door closing

### SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

PL-STOW	Payload stowage activities
PL-DEACT	Payload deactivation
SL-DEACT	Spacelab deactivation
EGRESS	Spacelab egress
MANEUVER	Books orbiter crew for maneuvers
TRIMBURN	Trimburn activities
IMU	IMU alignment activities
PTBLE-WD	Orbiter water dumps
WASTE-DP	Orbiter waste dumps
A/V-TAPE	Crew changeout of VTR tapes
ORB-TAPE	Crew changeout of VCR tapes
SLCO2ABS	CO2 filter changeouts

#### ASTRONOMY

SAL-OPS	Scientific airlock operations
VWFC	Very Wide Field Camera operations

#### MATERIALS PROCESSING

##### FLUID EXPERIMENT SYSTEM (FES)

FES-ACT	FES/VCGS activation
FES-1	FES's first crystal
FES-2	FES's second crystal
FES-3	FES's third crystal and deactivation
FES-MON1	FES monitoring w/RT video and voice
FES-MON2	FES monitoring w/voice and rec. video
FES-MON3	FES monitoring w/rec. video, no voice

## SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

### VAPOR CRYSTAL GROWTH SYSTEM (VCGS)

VCG	VCG crystal growth activities
VCG-MON1	VCG monitoring w/RT video and voice
VCG-MON2	VCG monitoring w/voice and rec. video
VCG-MON3	VCG monitoring w/rec. video, no voice

### MERCURIC IODIDE CRYSTAL GROWTH (MICG)

MICG	MICG operations
------	-----------------

### TECHNOLOGY

#### DROP DYNAMICS MODULE (DDM)

DDM-1/2	DDM odd/even fo sequence with a 25% efficiency factor
DDM-O/E	DDM odd/even fo sequence without a 25% efficiency factor

### ENVIRONMENTAL OBSERVATIONS

#### ATMOSPHERIC TRACE MOLECULES SPECTROSCOPY (ATMOS)

ATMCON	ATMOS continuous resources
ATMSET	RT sunset observation with launch window insensitivity
ATMSET1	RT sunset observation w/o launch window insensitivity
SETREC	Recorded sunset observation with launch window insensitivity



### SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

ATMRIS	RT sunrise observation with launch window insensitivity
ATMRIS1	RT sunrise observation w/o launch window insensitivity
RISEREC	Recorded sunrise observation with launch window insensitivity
ATMSUN	RT sun calibration measurement following sunrise
ATMSUN1	RT sun calibration measurement prior to sun set
ATMSKY	RT sky calibration measurement

#### GEOPHYSICAL FLUID FLOW CELL (GFFC)

GFFC-1	Type-I run (360 minutes)
GFFC-2	Type-II run (180 minutes)
GFFC-3	Type-III run (150 minute run followed by a 20 minute run)
GFFC-FLM	Film changeout
GFFC-MON	Monitoring and timing check

#### AURORAL OBSERVATIONS

AURORA	Auroral observation
--------	---------------------

#### LIFE SCIENCES

##### AMES RESEARCH CENTER LIFE SCIENCES PAYLOAD (ARC/LSP)

BTS	Biotelemetry system resources and operations
DEMS	Dynamic Environment Measuring System
ARC-F01F	DEMS safing switch operation

### SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

ARC-PREP	ARC activation (FO's I,J,B)
ARC-FO2A	Animal observations
ARC-FO2C	Condensate bottle changeout
ARC-FO2D	16mm camera operations
ARC-FO2E	Food cannister replacement
ARC-FO2F	WMS changeout
ARC-FO2H	Operation of temporary restraint system
ARC-FO2K	BTS signal strength optimization
ARC-DORB	ARC deactivation
ARC-NITE	RAHF animals night cycle
ARC-PWR	ARC/LSP power for RAHF

#### URINE MONITORING SYSTEM (UMS)

UMS-OPS	UMS setup, operation, and shutdown
UMS-CAL	Calibration of the UMS

#### AUTOGENIC FEEDBACK TRAINING (AFT)

AFT	AFT activities
-----	----------------

#### PLASMA PHYSICS

##### IONIZATION STATES OF SOLAR AND GALACTIC HEAVY NUCLEII (IONS)

IONS	IONS operations
------	-----------------

## SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

### PUBLIC AFFAIRS

#### VIDEO

TV01	Initial spacelab ingress
TV02	RAHF tour
TV03	VCGS crew procedures
TV04	DDM crew procedures
TV05	FES crew procedures
TV06	RAHF condensate bottle changeout
TV07	RAHF food/waste changeout for DR
TV08	RAHF food/waste changeout for SR
TV09	RAHF temporary restraint system
TV10	RAHF video observations of the monkeys
TV13	Press conference
TV14	Spacelab deactivation and egress
TV15	VWFC installation into the SAL
TV16	VWFC extension into space
TV17	FES/VCGS crew activities prior to monitoring
TV18	DDM science video
TV19	Auroral observations
TV20	Coverage of spacelab tunnel
TV21	Payload observations
TV23	FES crew procedures

#### PHOTOGRAPHY

16MM/03	16mm coverage of VCG crystal growth
---------	-------------------------------------

### SL-3 PAYLOAD ACTIVITY MODEL DESCRIPTIONS

16MM/07	16mm coverage of RAHF DR food/waste replacement
16MM/08	16mm coverage of RAHF SR food/waste replacement
16MM/10	16mm coverage of RAHF animal observation
35MM/03	35mm coverage of VCG
35MM/07	35mm coverage of RAHF DR food/waste replacement
35MM/08	35mm coverage of RAHF SR food/waste replacement
35MM/19	35mm coverage of auroral observations
70MM/22R	70mm coverage of ATMOS sunrise
70MM/22S	70mm coverage of ATMOS sunset

### DETAILED SUPPLEMENTARY OBJECTIVES

DSO 437	Microbial monitoring
DSO 453	Blood processing