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APOLLO 17

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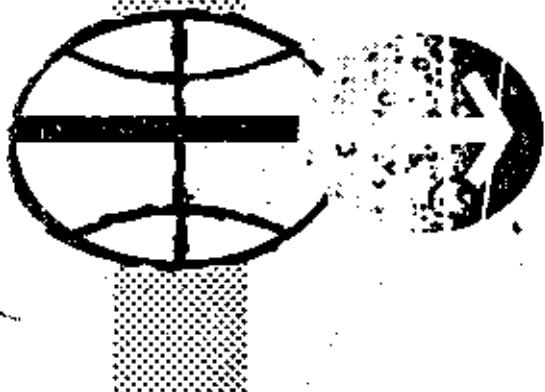
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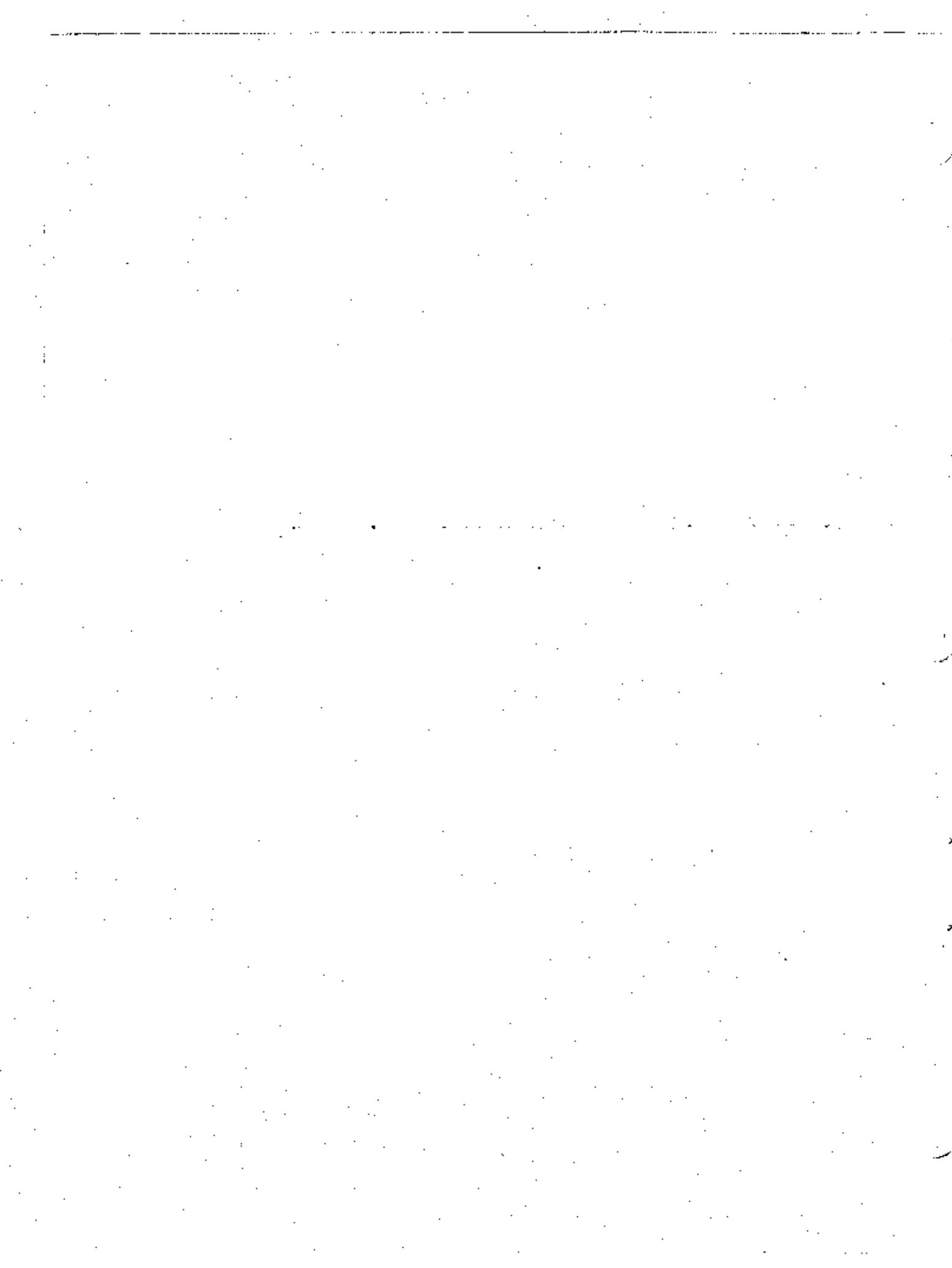
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PREPARED BY
FLIGHT PLANNING BRANCH
CREW PROCEDURES DIVISION

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OCTOBER 23, 1972





APOLLO 17

FINAL

FLIGHT PLAN

OCTOBER 28, 1972

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The CSM and LM Attitude information is taken from the document, "Operational Lunar Orbit Attitude Sequence for Apollo 17".

Consumable Analysis data were prepared by the Consumables Analysis Section of the Mission Planning and Analysis Division.

FLIGHT PLAN

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ABB	abbreviation or abbreviated
AC	alternating current
ACCEL	accelerometer
ACN	Ascension
ACT	activation
ACQ	acquisition or acquire
ADAPT	adapter
AEA	abort electronics assembly
AGS	abort guidance subsystem
AH	ampere hours
ALSCC	Apollo lunar surface close-up camera
ALSD	Apollo lunar surface drill
ALSEP	Apollo lunar surface experiment package
ALT	altitude
ALTM	altimeter
AM	amplitude modulation
AMP or amp	amperes
AMPL	amplifier
ANG	Antigua
ANT	antenna
AOH	Apollo Operations Handbook
AOL	Atlantic Ocean line
AOS	acquisition of signal or acquisition of site
AOT	alignment optical telescope
AP	alpha particle spectrometer
APS	ascent propulsion subsystem
ARIA	Apollo range instrumentation aircraft
ARS	atmosphere revitalization system
ASC	ascent
A/T	alignment technique
ATT	attitude
AUX	auxiliary
AZ	azimuth
BAT	battery
BEF	blunt end forward
BD	band
BDA	Bermuda
BIOMED	bio-medical data
BKND	backward
BMAG	body mounted attitude gyro
BP	barber pole
BRKT	bracket
BSLSS	buddy secondary life support system
BT	burn time
BU	backup
BUSS	biomedical urine sampling system

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BW	black and white (Film 3400)
BW1	black and white (Film 3401)
CAP COM	capsule communicator
CAL	calibration
CAMR or CAM	camera
CARR	carrier
CB or cb	circuit breaker
CCGE	cold cathode gage experiment
CCIG	cold cathode ion gage
CCU	comm carrier umbilical
CCW	counter clockwise
CDH	constant delta altitude
CDR	Commander
CDU	coupling data unit
CEX	color exterior (SQ-368)
CIN	color interior (SQ-168)
CIRC	circulation
CK	check
CKT	circuit
C/L	centerline or checklist
CM	command module
CMC	command module computer
CMD	command
CMP	Command Module Pilot
CNTL	control
C/O	check out
COAS	crew optical alignment sight
COMM	communications
CONFIG	configuration
COMP	compare or compensate
CONT	continue or contingency
CP	control point
CPLLE	charged particle lunar environment experiment
CRO	Carnarvon, Australia
CRYO	cryogenic
CS	contingency sample
CSI	coelliptic sequence initiation
CSM	command and service modules
CST	central standard time
CSVC	core sample vacuum container
C/S	central station
CTR	center
C&WS	caution and warning system
CW	clockwise
CWEA	caution and warning electronics assembly

CWG	constant wear garment
CYI	Grand Canary Island
DAC	data acquisition camera
DAP	digital auto pilot
DB	deadband
DC	direct current or data camera (70mm)
DCS	500mm data camera/lens
DCA	digital command assembly
DCC	commander's data camera
DCL	Lunar Module Pilot's data camera
DECON	decontamination
DEDA	data entry and display assembly
DEG	degrees
DEPL	depletion
DES	descent
DET	digital event timer
DIFF	difference
DIR	direct
DK	docked
DO	detailed objective
DOI	descent orbit insertion
DPLY	deployment
DPS	descent propulsion system
DR	door
DRT	dome removal tool
DS	documented sample
DSCRM	discriminator
DSE	data storage equipment(CSM)
DSEA	data storage equipment assembly (LM)
DSKY	display and keyboard
DSM	deep space measurement
DTO	detailed test objective
DUA	digital uplink assembly
DWN	down
E	erasable or enter
ECS	environmental control system
ED	explosive device
EDT	eastern daylight time
EFH	earth far horizon
EI	earth (atmosphere) interface and entry interface
EKG	electrocardiogram
EL	electric Hasselblad camera
ELECT	electrical
ELEV	elevation

EMER	emergency
EMS	entry monitor system
EMU	extravehicular mobility unit
ENG	engine
ENH	earth near horizon
ENT	entry
E.O.	earth orbit
EOM	end of mission
EPO	earth parking orbit
EPHEM	Ephemeris
EPS	electrical power subsystem
EQUIP	equipment
ERECT	erectable
ERR	error
EST	eastern standard time
ETB	equipment transfer bag
EV	extravehicular
EVA	extravehicular activity
EVAP	evaporator
EVCS	extravehicular communications system
EVT	extravehicular transfer
EXP	experiment
EXT	external
EXTD	extend
f	f-stop
FAM	familiarize or familiarization
FC	fuel cell
FCS	fecal containment system
FOAI	flight director attitude indicator
FLT	flight
FM	frequency modulated
FOV	field of view
FPS	feet per second
fps	frames per second
FR	frame(s)
FREQ	frequency
FT or ft	feet
FTO	flight test objective
FTP	full throttle position
FTT	fuel tranfer tool
FWD	forward
G.A.	gas analysis
GA	gimbal angle
GAL	galactic

GBI	Grand Bahama Islands
GBM	Grand Bahama (STDN)
GDC	gyro display coupler
GDS	Goldstone, California
GET	ground elapsed time
GETI	ground elapsed time of ignition
GETIL	ground elapsed time of landing for TIG time of abort burn
GLY	glycol
GMT	Greenwich mean time
G&C	guidance and control
G&N	guidance and navigation
GNCS	guidance, navigation and control system (CSM)
GR	gamma ray spectrometer
GWM	Guam
GYM	Guaymas, Mexico
H ₂	hydrogen
HA	apogee altitude
HAW	Hawaii
HBR	high bit rate (TLM)
HBW	high speed black and white film
HD	highly desirable
HDC	hasselblad data camera
HFE	heat flow experiment
HGA	high-gain antenna
HI	high (switch position)
HOR	horizon
H ₂ O	water
HP	perigee altitude
HR	hour(s)
HSB	helmet stowage bag
HSK	Honeysuckle (Canberra, Australia)
HTC	hand tool carrier
HTR	heater
HTV	USNS Huntsville
ICDU	inertial coupling data unit
ID	identification
ICG	inflight coverall garment
ICS	intercomm system
IGA	inner gimbal angle
IGN	ignition
IMC	image motion compensation
IMU	inertial measurement unit
INCR	increase
IND	indicator

INIT	initialization
INT	interval
IP	initial point
ISA	interim stowage assembly
ISS	interim stowage shelf
IU	instrumentation unit
IVC	intervehicular communications
IVL	intervalometer
IVT	intravehicular transfer
IR	inclination of the ascending return
IR	infrared scanning radiometer
JETT	jettison
KG	kilogram
KM	kilometer
kwh	kilowatt hour
LA	launch azimuth or laser altimeter
LACE	lunar atmospheric composition experiment
LAT	latitude
LBL	low bit rate (TLM)
LB or 1b	pound(s)
LCG	liquid cooled garment
LCRU	lunar communications relay unit
L/D	lift/drag
LD	lunar day (TV lens)
LDG	landing
LMK	landmark
LEAM	lunar ejecta & meteorite (experiment)
LEB	lower equipment bay
LEC	lunar equipment conveyor
LEVA	lunar extravehicular visor assembly
LFH	lunar far horizon
LGC	LM guidance computer
LH	left-hand
L/H	local horizontal
LHEB	left-hand equipment bay
LHFEB	left-hand forward equipment bay
LHSSC	left-hand side storage container
LiOH	lithium hydroxide
LLM	lunar landing mission
LLOS	landmark line of sight
LM	lunar module
LMP	Lunar Module Pilot
LMS	lunar mass spectrometer

LNH	lunar near horizon
L/O	lift-off
LOD	lunar orbit docked
LOI	lunar orbit insertion
LONG	longitude
LOS	loss of signal or loss of site
LPO	landing point designator
LPO	lunar parking orbit
LPM	lunar portable magnetometer
LR	landing radar
LRRR or LR3	laser ranging retro-reflector
LRV	lunar roving vehicle
L/S or LS	landing site or lunar surface
LS	lunar sounder
LSG	lunar surface gravimeter
LSM	lunar surface magnetometer
LSPE	lunar seismic profile experiment
LT	light
LTG	lighting
LUB	lubrication
LV	launch vehicle
L/V	local vertical
LVPD	launch vehicle pressure display
M	mandatory
MAD	Madrid, Spain
MAG	magazine (camera)
MAN	manual
MAX	maximum
MAX Q	maximum dynamic pressure
MBW	medium black and white film
MC	mapping camera
MCC	midcourse correction
MCC-H	Mission Control Center - Houston
MDC	main display console
MEAS	measurement
MED	medical
MEED	microbial ecology evaluation device
MESA	modular experiment stowage assembly
MET	mission event timer
MGA	middle gimbal angle
M/I	minimum impulse
MIN	minimum or minutes(s)
MIR	mirror
MLA	Merrit Island, Florida, launch area
mm or MM	millimeter

MNA or MNB	main electrical bus A or B
MNVR	maneuver
MON	monitor
MONO	monaural
MPL	mid-Pacific line
MPS	main propulsion system
M/R	mixture ratio (fuel to oxidizer)
MS	mass spectrometer
MSFN	Manned Space Flight Network
MSO	mass spectrometer outgassing
MTN	motion
MTVC	manual thrust vector control
MULT	multiplier
N ₂	nitrogen
NAV	navigation
NEG	negative
NK	Nikon camera
NM	nautical miles
NO.	number
NOM	nominal
NXX	Noun XX
O ₂	oxygen
OBS	observation
O/F	oxidizer to fuel ratio
OGA	outer gimbal angle
OID	octal identifier
OMNI	omnidirectional antenna
OPR	operate
OPS	oxygen purge system
OPT	option
ORB	orbital
ORDEAL	orbit rate display earth and lunar
ORIENT	orientation
OVBD	overboard
OVHD	overhead
P	pitch or program
PAD	voice update
PAN	panoramic
PART	particle
PCM	pulse code modulation
PC	plane change or chamber pressure
PDI	powered descent initiation

PER	Pericynthion
PGA	pressure garment assembly
PGNCS	primary guidance, navigation and control system (LM)
PGNS	primary guidance navigation system (LM)
PHOTO	photograph
PIPA	pulse integrating pendulous accelerometer
PKG	package
PKS	Parks, Australia
PLSS	portable life support system
PM	phase modulated
POL	polarity or polarizing
POS	positive
PRD	personal radiation dosimeter
PRO	proceed
PREF	preferred
PREP	preparation
PRESS	pressure
PRIM	primary
PROP	proportional
PRN	pseudo random noise
PRPLNT	propellant
PSE	passive seismic experiment
PSIA	pounds per square inch absolute
PSID	pounds per square inch differential
PSIG	pounds per square inch gage
PT	point
PTC	passive thermal control
PTT	push to talk
PU	propellant utilization
PUGS	propellant utilization gaging system
PWR	power
PXX	Program XX
PYRO	pyrotechnic
QTY	quantity
QUAD	quadrant
R	roll or range
R&B	red and blue
RAD	radiator, radial, or radiation
RCDR	recorder
RCS	reaction control system
RCU	remote control unit
RCVR	receiver
REACQ	reacquire
REFSMMAT	reference stable member matrix

REG	regulator
REL	release
REQD	required
RETR	retract
REV	revolution
RH	right-hand
RHC	rotational hand controller
RING	ringsight
RLS	radius of landing site
RMT	remote
RNDZ	rendezvous
RNG	range or ranging
ROD	rate of descent
RR	rendezvous radar
RSI	roll stability indicator
RSLV	resolver
RT	realtime
RTC	realtime command
RTG	radioisotope thermoelectric generator
RXX	Routine XX
SA	shaft angle
SATT	satellite
S-BD	S-BAND
SC	spacecraft
SCE	signal conditioning equipment
SCS	stabilization control system
SCT	scanning telescope
SE	southeast or subearth
SEC	secondary
SECO	S-IVB engine cutoff
SECS	sequential events control system
SEF	sharp end forward
SEL	select
SEP	separate
SEQ	sequence
SEVA	standup extravehicular activity
SIDE	suprathermal ion detector experiment
SII	Saturn II (second stage)
SIM	scientific instrument module
S-IVB	Saturn IVB(third stage)
SLA	service module LM adapter
SLOS	star line-of-sight
SM	service module
SPECT	spectrometer
SPOT	spot meter

SPS	service propulsion system
SR	sunrise
SRC	sample return container
SRX	S-Band receiver mode no. X
SS	sunset or subsolar
STBY	standby
STDN	Spaceflight Tracking and Data Network (formerly MSFN)
STX	S-Band transmit mode no. X
SUBSAT	subsatellite
S.V.	state vector
SW	switch
SWC	solar wind composition
SWE	solar wind experiment
SXT	sextant
SYS	system
T EPHEM	time of Ephemeris update
TA	trunnion angle
TAN	Tananarive, Madagascar
TB	time base or talkback
TCA	time of closest approach
TD	touchdown
T&D	transposition and docking
TD&E	transposition docking and LM ejection
TDS	thermal degradation sample
TEC	transearth coast
TECH	technique
TEI	transearth injection
TEMP	temperature or temporary
TERM	terminate
TEX	Corpus Christi, Texas
TGE	traverse gravimeter experiment
TGT	target
THC	translation hand controller
TIG	time of ignition
TK	tank
TLC	translunar coast
TLI	translunar injection
TLM or TM	telemetry
TPF	terminal phase final
TPI	terminal phase initiation
TPM	terminal phase midcourse
T/R	transmitter/receiver
TRANS	translation
TRK	track or tracking
TRUN	trunnion

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TSB	temporary stowage bag
TV	television
TVC	thrust vector control
TWR	tower
UCTA	urine collection transfer assembly
UHT	universal hand tool
ULL	ullage
UMB	umbilical
UNBAL	unbalance (meter)
UNDK	undock
US	United States
UV	ultraviolet spectrometer
V	velocity
VG _{IMU}	velocity to be gained as related to IMU orientation
VGX	velocity to be gained (X-body axis)
VGY	velocity to be gained (Y-body axis)
VGZ	velocity to be gained (Z-body axis)
VR	resultant velocity
VX	velocity along the X-axis
VY	velocity along the Y-axis
VZ	velocity along the Z-axis
VAN	USNS Vanguard
VHBW	very high speed black and white film (2485)
VHF	very high frequency
VLV	valve
VOX	voice keying
VXX	Verb XX
W	Watts
WRT	with respect to
X	time of closest approach (symbol)
XDOT	rate of change along the X-axis
XFER	transfer
XMIT	transmit or transmitter
XPNDER	XPNDRtransponder
Y	yaw
YDOT	rate of change along the Y-axis
ZDOT	rate of change along the Z-axis
ZPN	impedance pneumogram

ΔAz	azimuth change (difference)
ΔH	altitude change (difference)
ΔP	pressure change (difference)
ΔR	position change (difference)
ΔV	velocity change (difference)
ΔV_C	velocity change at engine cutoff
ΔV_T	velocity change loaded pre-burn
#	numbers
ϕ	latitude
λ	longitude

PHOTOGRAPHIC NOMENCLATURE

AAA/BBB/CCC/DDD - EEE, EEE, (fgg, HHH, III) JJ fps or JJ FR (KK% MAG)

AAA - Location from which photography is to be accomplished

BBB - Camera

CCC - Lens

DDD - Film Type

EEE - Photography aids (i.e., brackets, intervalometer, mirror, etc.)

fgg - Lens Aperture Setting

HHH - Shutter Speed

III - Focus Distance in Feet

JJ - Number of frames for DC, EL & NK cameras

JJ - Frame Rate for the DAC only

KK - Magazine percent for the DAC only

CODE EXAMPLE:

1. CM4/DAC/18/CEX-BRKT, SPOT (S,1/250,∞) 12 fps (50% MAG)

Meaning: Photos are taken from CM right hand rendezvous window using the DAC with 18mm lens and SO368 film. The camera will be bracket mounted with the following camera settings: f-stop from spotmeter reading, shutter speed 1/250 of a second, focus at infinity, 12 frames per second, 50% MAG.

2. CM4/EL/80/BW-BRKT, IVL 8 (f5.6,1/250,∞) 10 FR.

Meaning: Photos are taken from CM right hand rendezvous window using the Electric Hasselblad camera with the 80mm lens and black & white film (3400). The camera will be bracket mounted with the following settings: f-stop (aperture) f5.6, shutter speed 1/250, and focus at infinity. The operation of the shutter will be controlled by the intervalometer; IVL 8 representing 8 sec between frames and IVL 20 representing 20 sec between frames. Ten frames have been allotted for this sequence.

CAMERA LOCATIONSCOMMAND MODULE

CM-1	LH Side Window
CM-2	LH Rendezvous Window
CM-3	Hatch Window
CM-4	RH Rendezvous Window
CM-5	RH Side Window

LUNAR MODULE

LM-1	LH Window
LM-2	Docking Window
LM-3	RH Window

CAMERA MOUNTSCSM

Electric Hasselblad (EL) +X axis +12° (in X-Z plane)

Electric Hasselblad (EL) normal to RH Side Window

Data Acquisition Camera (DAC) with right angle mirror +X axis

Data Acquisition Camera (DAC) with SXT Adapter - same as SXT shaft & trunnion.

Data Acquisition Camera (DAC) with right angle mirror rotated 180° looking aft out RH side window.

NIKON (NK) Two positions

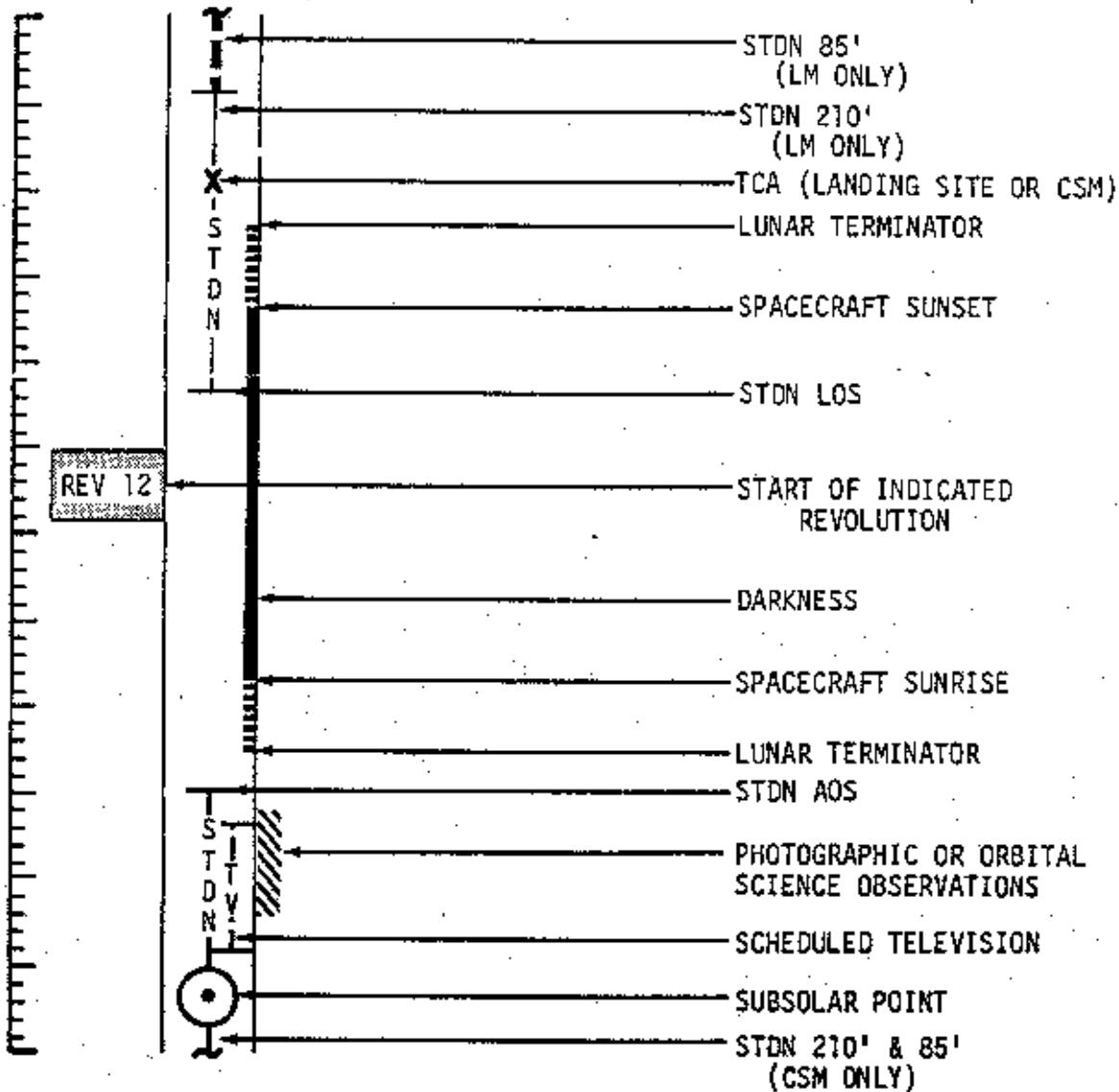
parallel to +X axis

+X axis +30° (in X-Z plane)

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SYMBOL NOMENCLATURE

SIM EXP STATUS
(A B C D E)
(F G H I J)



SCIENTIFIC INSTRUMENT MODULE
EXPERIMENT STATUS CODE

L1	SIM ATT	A	MAP CAM COVER/POS	B	LS HF ANT	C	IR COVER	D	UV COVER	E
+	+X FWD	0	CLOSED	0	RETR	0	CLOSED	0	CLOSED	
-	-X FWD	1	OPEN/EXTD	1	EXTD	1	OPEN	1	OPEN	
*	NON SIM	2	OPEN/RETR							
L2	PAN CAM	F	MAP CAM/ LASER ALTM	G	LS	H	IR	I	UV	J
0	OFF/STBY	0	OFF/OFF	0	OFF	0	OFF	0	OFF	
1	PWR/STBY	1	STBY/OFF	1	HF MODE	1	ON	1	ON	
2	PWR/OPERATE	2	ON/ON	2	VHF MODE					
3	BOOST/STBY	3	STBY/ON	3	RECV ONLY					
		4	ON/OFF	4	STBY					
		5	ON(IMC-OFF)	5	/OFF					

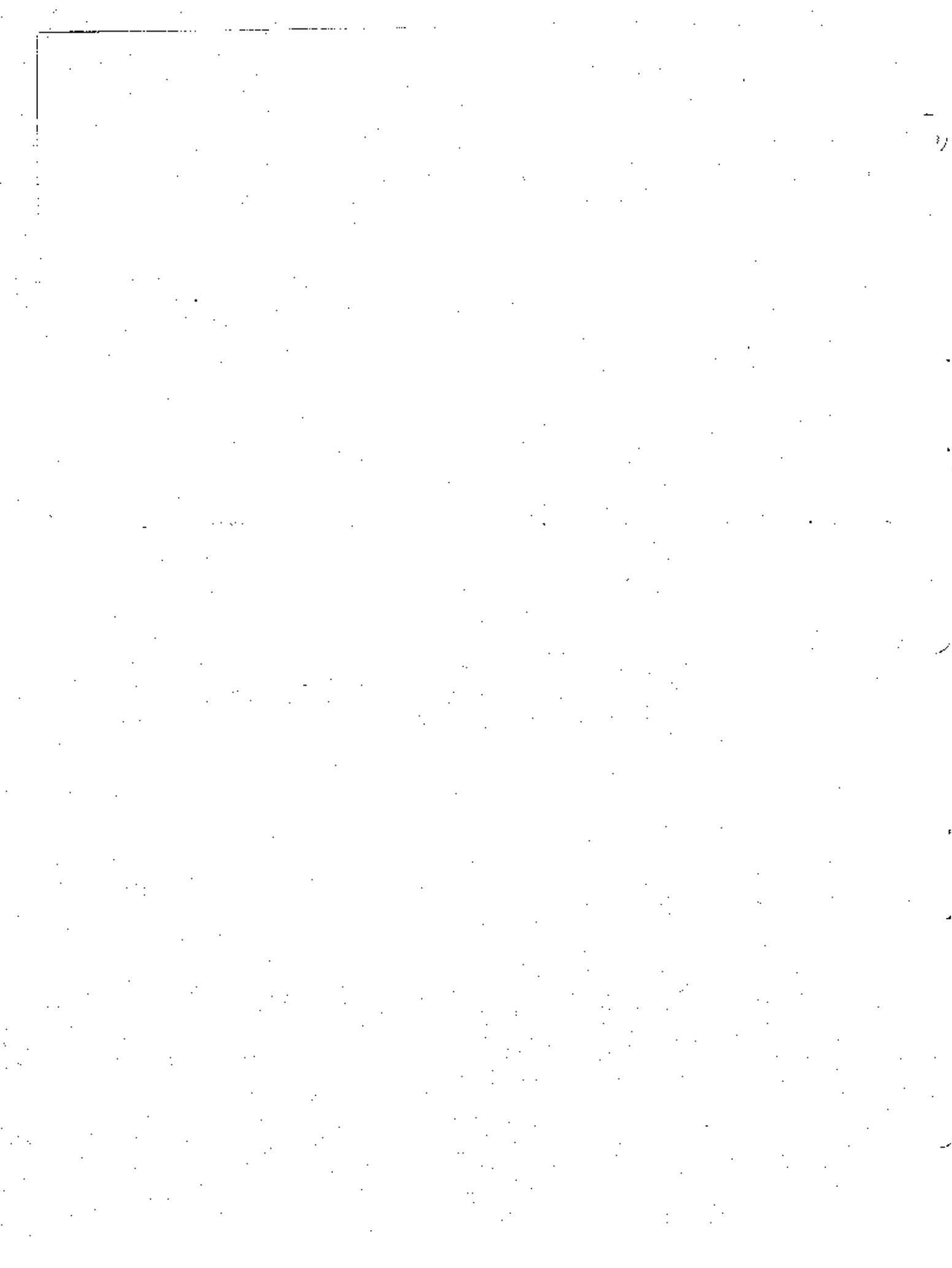
USUAL CONFIGURATIONS

PRE - SPS BURN PREP { *0000 } or { 31000 } or { 31011 } SLEEP { +0011 } or { -0111 } or { 01011 } MN POWER { 0000 } or { 00000 }

SIM BAY SECURE
(Dumps, Thermal, Thrusters) { 0000 } or { 01011 }



SECTION 1 - FLIGHT PLAN NOTES



FLIGHT PLAN NOTES

I. Crew

- A. Crew designations are as follows:

<u>Designation</u>	<u>Prime</u>	<u>Backup</u>
Commander (CDR)	Cernan	Young
Command Module Pilot (CMP)	Evans	Roosa
Lunar Module Pilot (LMP)	Schmitt	Duke

- B. The nominal CM couch positions are:

<u>Activity</u>	<u>Left</u>	<u>Center</u>	<u>Right</u>
Launch thru TLI	CDR	CMP	LMP
T&D thru Entry	CMP	CDR	LMP

- C. The PGA's are worn as shown in Table 2-1.

- D. The crew biomedical harness and sensor wearing schedule is shown in Table 2-2.

- E. A crew status report for each crewman is voiced to MCC-H after each crew sleep period.

- F. Negative reporting is used in reporting completion of each checklist.

- G. All onboard gauge readings are read directly from the gauges with no calibration bias applied.

II. CSM Systems

A. Communications

1. The preferred S-Band communication modes are:
 - (a) Uplink Mode 6 (Voice, PRN, and Updata)
 - (b) Downlink Mode 2 (Voice, PRN, TLM-HBR)
2. VHF Duplex B is used for launch, and Simplex A is used for earth-orbit operations.
3. Table 2-3 summarizes the STDN coverage available for the CSM.
4. Table 2-4 contains a summary of the scheduled CSM & LM TV transmissions.
5. MCC-H switches OMNI antennas during TLC PTC periods, OMNI and HGA during TEC PTC periods. The crew manages antenna operations during all other TLC and TEC periods.
6. The HGA will be managed by the crew and MCC-H in order to minimize SIM bay experiment data loss at AOS and LOS while in lunar orbit during awake periods.

B. DSE

1. During the earth-orbit phase, the CSM LBR data is recorded when the CSM is not within STDN coverage. The DSE is dumped during the pass over the US prior to TLI.
2. CSM LBR data will be recorded during all P24 landmark tracking.
3. CSM HBR will be recorded during Launch, TLI, SIVB/CSM SEP, TD&E, all CSM SPS maneuvers (except LOPC), Sim Door Jettison, docking, undocking, and LM Final Separation.
4. LM LBR data will be recorded during STDN LOS periods between LM comm activation and DOI.
5. All entry data will be recorded in HBR during the black-out.
6. Lunar Sounder data will be managed per Table 2-15.

C. Electrical Power

1. The CSM normally remains powered up throughout the mission.
2. Table 2-5 lists the fuel cell purges.
3. Based on cryo purity and performance, the time between fuel cell O_2 purges may be increased to coincide with water dump times. The first O_2 purge allows a judgement to be made on the defined purge schedule.
4. The cryogenic heaters are managed such that the planned usage is obtained out of each O_2 tank. The H_2 fans are cycled prior to each sleep period.
5. Table 2-6 contains the battery charge schedule.

D. ECS and Water Management

1. Potable water is chlorinated once a day after the eat period prior to each sleep period.
2. Waste water dump, fuel cell purge, and urine collection scheduling criteria:
 - (a) Table 2-5 contains the scheduled fuel cell purges, urine dumps and waste water dumps
 - (1) Approximately once during each 24 hours following the initial dump and purge when three crewmen are in the CSM. Reduce interval to 22 hours when one crewman is in the CSM.
 - (2) H_2 fuel cell purges are scheduled at every other O_2 fuel cell purge after the first O_2 fuel cell purge
 - (b) The most opportune times to perform waste water dumps and fuel cell purges are as follows:
 - (1) Immediately after the sextant star check in maneuver preparation or cislunar navigation

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- (2) Behind the moon, with completion of dump or purge before AOS
 - (3) At least three hours prior to SIM Bay photography and laser altimeter operation
- (c) If possible, dumps and purges are not scheduled during the following periods, except just prior to the burn.
- (1) Ten hours before MCC-2
 - (2) Eight hours before MCC-5
- (d) Dumps and purges are not scheduled during the following STON tracking periods:
- (1) Between MCC-4 and LOI
 - (2) Ten hours before MCC-7 until entry, except urine is dumped just prior to MCC-7.
- (e) All waste water dumps are manual.
3. Only one CO_2 absorber filter (LiOH canister) is changed at a time. Table 2-7 lists the LiOH canister change schedule. There are 26 filters on board.
 4. At lift-off, the cabin contains 60% O_2 and 40% N_2 . The CM is purged after launch. The purge is terminated prior to LM pressurization after TLI. After the LM is configured for ejection, it is isolated and the CM is purged for eight more hours. The purge is stopped for a sleep period and reinitiated after sleep.
 5. CSM O_2 pressurizes the LM after transposition and docking; and repressurizes the LM before TLC LM entry(s), MCC-4 and LM activation.

E. Guidance and Navigation

1. REFSMMAT Definitions

- (a) The "Launch Pad" REFSMMAT is used for launch, TLI, and TD&E. This REFSMMAT places the IMU X-axis along the launch azimuth at the pad and the Z-axis along the negative radius vector.
- (b) The "PTC" REFSMMAT is used for all midcourse maneuvers (except MCC-7) and for other operations during TLC and TEC. This REFSMMAT places the X-axis in the ecliptic plane and perpendicular to the earth-moon line projection in the ecliptic plane at the average time of transearth injection for the monthly launch window and azimuth range. The Z-axis is perpendicular to the ecliptic and directed south. At the beginning of the PTC Mode the spacecraft maneuvers to an FDAI display of pitch 90° or 270°.
- (c) A "Preferred" REFSMMAT is used by the CSM for LOI, Lunar-Orbit Plane Change, and TEI. The CSM IMU X-axis aligns normally with the spacecraft X-body axis (except LOPC) at the vehicle attitude for ignition with the thrust directed through the center of gravity. At burn ignition, the FDAI displays roll 0°, pitch 0°, and yaw 0°, except roll 180° for TEI. A yaw of 315° is used for LOPC, which places the X-axis 45° from the IMU X-axis.
- (d) The "Landing Site" REFSMMAT is used for DOI, PDI, landing, and CSM lunar orbit activities up to the first plane change. This REFSMMAT places the CSM and LM IMU X-axis along the positive lunar radius vector at the landing site at the predicted landing time and places the Z-axis in the direction of flight parallel to the CSM orbital plane. At nominal touchdown, the LM FDAI displays roll 0°, pitch 0°, and yaw 0°.
- (e) The "Lift-Off" REFSMMAT is used for all lunar activities after Plane Change, until transearth injection. This REFSMMAT places the CSM and LM IMU X-axis along the positive lunar radius vector at the landing site at predicted lift-off time, with the Z-axis down range parallel to the CSM orbital plane. At nominal lift-off time, the LM FDAI displays roll 0°, pitch 0°, and yaw 0° with slight differences reflecting actual touchdown yaw and slope tilt angles.

- (f) The "Entry" REFSMMAT aligns the IMU X-axis in the local horizontal plane in the direction of flight at entry interface. The entry REFSMMAT is used for MCC-7 and all remaining activities. The Z-axis is down along the negative radius at entry interface. At entry interface, with wings level, local horizontal, heat shield forward inplane, lift up, heads down, the FDAO displays roll 0°, pitch 180°, and yaw 0°.
2. The CSM external lighting is operated during the rendezvous from lift-off to docking. The running lights only are on from CSM/LM separation through PDI.
 3. The time tags on attitude maneuvers in Section 3 indicate the be-there-by time unless otherwise stated. All maneuver angles are the angles read on the FDAO after the maneuver has been completed.
 4. CSM/LM and CSM attitude maneuvers are normally performed at the rate of 0.2°/sec unless other rates are required. LM maneuvers are normally performed at 2°/sec unless otherwise specified.
 5. The SIM Bay RCS configuration provides single jet control authority in each axis to eliminate contamination of the SIM experiments. Table 2-8 identifies the periods when the CSM RCS is in an uncoupled configuration.
 6. Undocking is done radially, CSM below, using the soft undocking procedure. The probe is extended its full length with the LM held on by the capture latches. When the rates are nulled, the CSM releases the LM. The separation maneuver is then performed immediately.
 7. LM jettison is done radially, CSM below, with final sep pyros providing approximately 0.4 foot per second radial thrust. The separation burn is performed five minutes after jettison, providing 2 foot per second posigrade thrust.
 8. The standard register load for nouns 78 and 70 for SIM bay experiment pointing using the Universal Tracking Program P20, option 5 is:
N78 (+090.00)
(+052.25)
(+180.00) +X-axis forward
or (+000.00) -X-axis forward
N70 (00050)

9. The SC RCS configuration and maneuver control is shown as a DAP LOAD code in the time column where applicable in Section 3. During passive thermal control the code is shown as a note indicating the status of the DAP.

F. Propulsion Systems

1. In order to conserve SM RCS, the SPS engine is used to "back-up" all LM rendezvous burns requiring a ΔV greater than 12 FPS. The SPS gimbal motors are not turned on during the normal maneuver preparation.
2. The SPS always is started using a single bank, however, the other bank will be opened 2 to 5 seconds after ignition for burns longer than 10 seconds. DOI will be performed on a single bank.
3. Table 2-9 lists the CSM propulsion burns.

G. Scientific Instruments Module

1. The panoramic and mapping cameras will be placed in the boost and standby modes, respectively, during Launch through TD&E, rendezvous, and all SPS thrusting maneuvers.
2. The following switches may be left in their command position between uses in order to keep track of SIM Bay experiment status:
 - a) Mapping Camera Track
 - b) Mapping Camera/Laser Cover
 - c) IR Cover
 - d) UV Cover

The logic power will be in the OFF (center) position during SPS burns and all other events that may induce vibration or shock, i.e., undocking and rendezvous through LM jettison.

3. The SIM experiment status will be indicated in the upper righthand corner of each page, or half page in the CSM flight plan, of Section 3. The first line will indicate the CSM attitude and experiments positions at the beginning of each hour or half-hour as applicable. The second line indicates the experiments' functional modes as previously set up. Page xxv defines the SIM experiment position and mode status code.

III. LM Systems

A. Communications

1. The preferred S-Band communications are:
 - (a) Uplink Mode 7 (Voice, Updata)
 - (b) Downlink Mode 2 (Voice, TLM-HBR, PRN, BIOMED)
2. The LM DSEA schedule is shown in Table 2-10.

B. ECS

1. The LM contains ambient air at lift-off. During launch the pressure bleeds to zero psia. CSM O₂ pressurizes the LM after T&D. The LM is isolated after T&D and after each entry and allowed to bleed down via leakage. Before the first entry into the LM, the LM is vented to at least 2.7 PSID and repressurized with CSM O₂ in order to enrich the LM atmosphere. CSM O₂ is used to repressurize the LM for the second and third entries.
2. LM O₂ is used to pressurize the LM five times; after EVA-1, EVA-2, EVA-3, and two equipment jettison periods.
3. Table 2-7 lists the LiOH canister change schedule.

C. Guidance Systems

1. The LGC and CMC use the same landing site and lift-off REFSMMATS.
2. The AGS is placed in standby after the "GO" is given for lunar stay for T3.

3. The IMU platform is oriented so that all PIPA output axes are normal to the gravity vector, then powered down and the LGC placed in standby approximately 1 hour after TD until approximately 5 hours prior to lift-off. The LGC is placed in OPERATE several times to update the computer clock.
4. To prevent overheating of the antenna, the rendezvous radar is pointed away from the sun and turned off when no functional use is required.
5. The LM tracking light is operated continuously during rendezvous.

D. Propulsion Systems

1. The APS/RCS interconnect is used during the lunar lift-off and ascent only.
2. Table 2-11 lists the LM propulsion burns.

E. Electrical Power System

1. The LM is powered down to a minimum level to conserve battery consumables on the lunar surface from PDI +1:00 to lift-off -5:00 hours.
2. LM battery management is scheduled on the lunar surface to equalize the usage of the five descent stage batteries. Table 2-6 contains the LM battery management schedule.

IV. Procedures

- A. CSM - Crew procedures called out in the flight plan may be found in the referenced crew checklist.
- B. LM - Crew procedures called out in the flight plan may be found in the referenced crew checklist.

V. Synchronization of Ground Elapsed Time (GET)

The realtime GET is synchronized with the Flight Plan GET. In TLC, the GET is synchronized at 67:30 if the time propagated ahead to start of Rev 2 is more than ± 1 minute from the flight plan GET. In Lunar orbit the GET is synchronized at 95:40 and at 209:40 if the time propagated ahead to start of Rev 26 and Rev 66 respectively is more than ± 2 minutes from the flight plan GET. The synchronization is performed by a V70 uplink from the ground followed by the crew synchronizing the mission timer to the CMC clock.

VI. Miscellaneous

- A. Table 2-12 contains a schedule of the return to earth block data updates.
- B. Table 2-13 is the landmark tracking and landing site data.
- C. Table 2-14 contains the cryo management schedule.
- D. Table 2-15 contains the Lunar Sounder Schedule.
- E. Table 2-16 contains the Apollo 17 Film Budget.
- F. Table 2-17 contains MC, LA and PC schedules.
- G. Charts 2-1,2,3,4 & 5 identify principal LUNAR SOUNDER Rev activities.

SECTION 2 - CHARTS & TABLES



TABLE 2-1
(12/6)

SUIT WEARING SCHEDULE

ACTIVITY	PRESSURIZED (HARD SUIT)	SUITED (SOFT SUIT)	PARTIAL SUIT WITH- OUT HELMET & GLOVES	SKIRTSLEEVES (ICG)
LAUNCH		ALL		
EARTH ORBIT THRU S-IVB EVASIVE MNVR			ALL	
TLC & TEC EXCEPT TEC EVA				ALL
PGA TEST			ALL	
LM ACTIVATION			ALL	
UNDOCKING		CDR & LMP	CMP*	
UNDOCK +5 MIN THRU CIRC			ALL	
POI thru TD		CDR & LMP	CMP	
LUNAR STAY EXCEPT EVA				ALL
LUNAR SURFACE EVA'S & EQUIP JETT	CDR & LMP			CMP
LIFT-OFF PREP			ALL	
LIFT-OFF THRU DOCKING		CDR & LMP	CMP	
DOCKING TO LM JETT			ALL	
LM JETT		ALL		
POST LM JETT THRU TEI				ALL
TEC EVA	ALL			
ENTRY				ALL

*CMP DON HELMET & GLOVES FOR DOCKING LATCHES RELEASE.

TABLE 2-2
(12/6)

CREW BIOMED HARNESS WEARING SCHEDULE*

<u>GET (HR:MIN)</u>	<u>CDR</u>	<u>CMP</u>	<u>LMP</u>
LAUNCH	ON	ON	ON
05:50		OFF	OFF
19:00	OFF		ON
36:00		ON	OFF
47:00	ON	OFF	
59:00	OFF		ON
69:35		ON	OFF
85:10	ON	OFF	
95:10	OFF		ON
107:25	ON		
107:50		ON	
125:00	OFF**		
147:30	ON		OFF**
171:00	OFF**		ON
184:25	ON		
194:30	OFF	OFF	
210:43		ON	OFF
217:30	ON	OFF	
230:40	OFF		ON
238:30		ON	OFF
253:55	ON		ON
258:55		OFF	OFF
279:05	OFF		ON
286:55		ON	OFF
300:25	ON		ON

*In the event of an inflight medical problem or illness the Flight Surgeon has the option to revise this schedule.

**Crew option - the crewman not on BIOMED data downlink may elect to remove his BIOMED Harness during the lunar surface rest periods.

TABLE 2-3
(12/6)
CSM COVERAGE BY STATION STATIONS USING 85 FT/210 FT DISH ANTENNA

	GOLDSTONE (GOS)	*PARKS (PKS)	HONEYSUCKLE (HSK)	MADRID (MAD)	*GOLDSTONE (WAR)	LOS
	AOS	L05	A05	L05	A05	L05
EARTH ORBIT	01:29	01:33		01:00	01:05	
TCT (3:21)	03:00	03:06		04:05	05:25	
	15:17	25:09		19:35	33:27	
TRANSOPLANAR COAST	22:15	30:58		22:15	30:58	
	39:26	49:41		32:07	41:52	
	63:30	73:54		40:07	49:06	
TOI (88:56)	87:28	88:44		57:35		
TEI (236:40)				56:09	66:10	73:22
				81:36		
				80:08	88:44	88:44
				252:30		
					236:52	247:40
					265:01	
TRANSEARTH COAST	258:25	272:24		250:45		
		270:32		266:52	274:34	
				216:17	289:21	
					282:40	296:41
EI (304:18)				291:48	299:12	
					298:15	303:49

* 210 FT DISH ANTENNA

TABLE 2-3 (CONT)

REF ID	GET AT REV	GOLDSTONE (EDS)		*PARKS (PKS)		HONEYSUCKLE (HSK)		MAURITIUS (MAD)		*GOLDSSTONE (MAR)	
		AOS	LOS	AOS	LOS	AOS	LOS	AOS	LOS	AOS	LOS
101	88:56	89:17	90:41	90:41	90:41	92:27	92:49	89:17	90:16	88:17	90:41
1	88:56	91:25	92:49	92:49	93:35	94:41	94:41	91:25	91:25	92:49	94:41
2	90:59	93:35	94:41	94:41	95:29	96:35	96:35	93:35	93:35	94:29	96:35
3	93:07	95:29	96:35	96:35	97:23	98:29	98:29	96:29	96:29	97:23	97:41
4	95:01	97:23	98:15	98:15	99:17	100:23	99:17	100:23	100:23	100:23	100:23
5	96:55	100:43	101:11	101:11	102:17	101:11	102:17	102:17	102:17	102:17	102:17
6	98:49	102:37	103:05	103:26	103:05	103:05	104:12	104:12	104:12	104:12	104:12
7	100:43	104:31	106:25	106:25	106:25	106:25	106:25	106:25	106:25	106:25	106:25
8	102:37	108:19	110:13	112:07	113:46	113:46	113:46	106:53	107:59	107:59	107:59
9	104:31	114:06	114:32	115:45	117:44	117:44	117:44	108:47	109:54	109:54	109:54
10	106:25	116:04	116:31	117:42	119:42	119:42	119:42	109:54	110:51	110:51	110:51
11	108:19	118:01	118:30	119:42	120:28	121:41	120:28	121:41	121:41	121:41	121:41
12	110:13	120:02	120:28	121:41	120:28	121:41	120:28	121:41	120:28	120:28	120:28
13	112:07	122:00	122:27	123:16	122:27	123:39	122:27	123:39	122:27	122:27	122:27
14	114:06	123:59	125:57	125:57	126:24	127:37	126:24	127:37	127:37	127:37	127:37
15	116:04	125:57	127:56	129:55	129:55	129:55	129:55	129:55	129:55	129:55	129:55
16	118:01	127:56	129:55	131:53	131:53	131:53	131:53	130:21	131:34	131:34	131:34
17	120:02	129:55	132:21	133:20	133:20	133:20	133:20	132:20	133:33	133:33	133:33
18	122:00	132:21	135:15	139:28	139:28	139:28	139:28	136:17	137:30	136:31	137:30
19	123:59	134:14	141:27	142:13	143:26	143:26	143:26	138:15	139:29	138:15	139:28
20	125:57	141:27	145:24	146:04	145:24	144:11	144:11	140:14	140:23	140:14	141:27
21	127:56	146:10	146:23	146:09	147:23	146:09	147:23	147:23	147:23	147:23	147:23
22	129:55	147:42	148:08	148:16	148:08	149:21	148:08	149:21	149:21	149:21	149:21
23	131:53	149:41	150:06	151:20	150:06	151:20	150:06	151:20	151:20	151:20	151:20
24	132:52	151:39	152:05	152:23	152:05	153:19	153:19	153:11	153:18	153:18	153:18
25	135:50	156:21	157:30	157:30	157:30	157:30	157:30	156:17	156:17	156:17	156:17
26	137:49	158:15	159:28	159:28	159:28	159:28	159:28	158:15	159:29	158:15	159:28
27	139:48	160:14	161:27	162:13	163:26	163:26	163:26	160:14	140:23	140:23	140:23
28	141:46	162:13	163:24	164:04	165:24	162:27	163:25	164:11	164:11	164:11	164:11
29	143:45	164:11	165:24	166:04	167:23	166:06	167:23	167:23	167:23	167:23	167:23
30	145:43	166:10	166:23	167:09	168:08	169:21	168:08	169:21	169:21	169:21	169:21
31	147:42	167:08	168:16	169:16	170:06	170:06	170:06	170:06	170:06	170:06	170:06
32	149:41	167:08	168:16	169:16	170:06	170:06	170:06	170:06	170:06	170:06	170:06
33	151:39	169:34	170:12	171:12	172:12	172:12	172:12	159:01	159:14	159:14	159:14
34	153:38	161:32	161:58	163:11	163:11	163:11	163:11	161:58	163:12	163:12	163:12
35	155:37	163:31	163:56	166:10	166:10	166:10	166:10	163:57	165:10	165:10	165:10
36	157:36	165:30	166:08	167:08	167:08	167:08	167:08	165:07	165:07	165:07	165:07
37	159:34	166:50	166:50	166:50	166:50	166:50	166:50	159:01	159:14	159:14	159:14
38	161:32	167:58	167:58	167:58	167:58	167:58	167:58	161:58	161:58	161:58	161:58
39	163:31	168:56	168:56	168:56	168:56	168:56	168:56	163:57	163:57	163:57	163:57
40	165:30	169:56	169:56	169:56	169:56	169:56	169:56	165:10	165:10	165:10	165:10
41	167:28	167:54	169:07	169:07	169:07	169:07	169:07	167:53	167:54	167:54	167:54

* 210 FT ANTENNA

TABLE 2-3 (CONT)

REF.	GET AT START OF REV	GOLDSTONE (GDS)		*PARKS (PKS)		HONEYBUCKLE (HSK)		MADRID (MAD)		*GOLDSTONE (MAR)	
		AOS	LOS	AOS	LOS	AOS	LOS	AOS	LOS	AOS	LOS
101	88:56	169:52	171:06	170:08	171:05	161:52	171:05			169:52	171:06
42	169:27	171:51	173:04	171:50	173:04	171:50	173:04			171:51	172:51
43	171:25			173:49	175:03	173:49	175:03				
44	173:24					175:48	176:50				
45	175:23					177:46	179:00	177:46	179:00		
46	177:21							179:45	180:58		
47	179:20							191:43	192:57		
48	191:18							183:42	184:56		
49	183:17							185:41	186:55	185:49	186:54
50	185:16	185:40	186:34					187:39	188:53	187:39	188:53
51	187:14	187:39	188:53							189:38	190:52
52	189:13	189:38	190:32			192:39	192:50			191:36	192:50
53	191:12	191:36	192:50			193:34	194:48			193:35	194:49
54	193:10	193:35	194:49			196:47	196:33	196:47	196:48	195:34	196:48
55	195:09	195:34	196:49	195:33	196:47	196:46	196:46	197:32	197:32	197:32	197:54
56	197:08	197:32	198:28	197:32	198:46	197:32	198:46				
57	199:06			199:31	200:45	199:31	200:45	201:29	202:44	202:44	
58	201:05							203:49	203:50	204:42	
59	203:04									205:27	
60	205:03									207:25	208:4
61	207:01									209:24	210:38
62	209:00	209:52	210:38							211:23	212:37
63	210:59	211:22	212:36							213:21	214:35
64	212:58	213:21	214:35							214:36	215:20
65	214:56	215:20	216:34					215:20	215:21	215:20	216:34
66	216:55	217:19	218:33			217:46	218:32			217:19	218:33
67	218:54	219:7	220:32			219:17	220:31			219:17	220:32
68	220:53	221:16	222:30	221:15	222:30	221:15	222:30			221:16	222:30
69	222:51	223:15	223:35	223:14	224:29	223:14	224:29				
70	224:50			225:13	225:34	225:13	226:27	227:12	228:25		
71	226:49					228:26		229:10	230:24		
72	228:48							231:09	232:23		
73	230:45							233:08	234:22		
74	232:45							235:07	236:21	235:06	236:20
75	234:44	235:06	236:21	248:11				236:53	240:51	236:52	247:40

* 210 FT ANTENNA

TABLE 2-4
(12/6)

APOLLO 17 TV SCHEDULE

<u>DAY</u>	<u>DATE</u>	<u>CST</u>	<u>GET (HR:MIN)</u>	<u>DURATION (HR:MIN)</u>	<u>ACTIVITY SUBJECT</u>	<u>VEHICLE</u>	<u>STATION</u>
THURSDAY	7 DEC	01:05AM	4:12	0:20	TRANPOSITION & DOCKING	CSM	HSK
MONDAY	11 DEC	6:48PM	117:55	5:19	LUNAR SURFACE EVA-1*	LRV	GDS/HSK/PKS
TUESDAY	12 DEC	4:21PM	139:38	6:21	LUNAR SURFACE EVA-2*	LRV	GDS
WEDNESDAY	13 DEC	3:58PM	163:05	6:35	LUNAR SURFACE EVA-3*	LRV	GDS
THURSDAY	14 DEC	4:41PM	187:48	0:25	LM LIFT-OFF	LRV	GDS/MAD
THURSDAY	14 DEC	6:31PM	189:38	0:06	RENDZVOUS	CSM	GDS/MAD
THURSDAY	14 DEC	6:54PM	190:01	0:05	DOCKING	CSM	GDS/MAD
SATURDAY	16 DEC	5:46PM	236:53	0:32	VIEW OF MOON AFTER FEI	CSM	GDS/MAD
SUNDAY	17 DEC	2:19PM	257:26	1:04	TRANSEARTH EVA	CSM	MAD
MONDAY	18 DEC	5:00PM	284:07	0:30	TEC PRESS CONFERENCE	CSM	GDS/MAD

*TV WILL NOT BE USED WHILE LRV IS IN MOTION

TABLE 2-5
(12/6)
FUEL CELL PURGE, URINE DUMP AND WASTE WATER DUMP SCHEDULE

GET (HR:MIN)	O ₂ FC PURGE NO (HR:MIN)	H ₂ FC PURGE NO (HR:MIN)	WASTE H ₂ O DUMP NO (HR:MIN)	URINE COLLECTION PERIODS GET START STOP ΔT NO (HR:MIN)	URINE DUMP NO (HR:MIN)
*18:30	1	18:30		1 18:30 07:00 18:30 11:30 1	18:30
*35:00	2	16:30	1 35:00	2 16:30 18:30 35:00 16:30 2	16:30
*56:45	3	23:45		3 23:45 35:00 58:45 23:45 3	23:45
*83:30	4	24:45	2 48:30	4 24:45 58:45 83:30 24:45 4	24:45
94:13	5	10:43		5 10:43	
*117:45	6	23:32	3 34:15	6 23:32 83:30 107:00 23:30 5	34:15 & UTCA
*137:45	7	20:00		7 20:00 114:30 133:00 18:30 6	20:00
**159:40	8	21:55	4 41:55	8 21:55 133:00 156:10 23:10 7	21:55
**160:45	9	21:05		9 21:05 156:10 180:45 24:35 8	21:05
194:20					DUMP UTCA'S POST RNDZ
196:50	10	16:05	5 37:10	10 16:05	
**208:20				180:45 208:00 27:15 DUMP UTS	
218:30	11	21:40		11 21:40	
*230:30	12	12:00	6 33:40	12 12:00 208:00 230:25 22:30 9	22:10
*252:50	13	22:20		13 22:20 230:25 252:50 22:25 10	22:20
*276:50	14	24:00	7 46:20	14 24:00 252:50 276:50 24:00 11	24:00
*300:30				276:50 300:30 23:40 12	23:40
*303:30				303:30 303:30 03:00 NO DUMP	

*DUMP URINE FROM BUSS'S (3)

**DUMP URINE FROM BUSS (1)

DUMP LAUNCH UTCA'S 06:30

TRANSFER TO LM - 108:00

TRANSFER TO CM - 193:00

TABLE 2-6
(12/6)

CSM BATTERY CHARGE AND LM BATTERY MANAGEMENT SCHEDULES

CSM BATTERY CHARGE SCHEDULE

GET (HR:MIN)	BATTERY
09:00	B
18:40	A
35:55	A
59:55	B
114:35	B
140:22	A
208:02	B
277:00	A
283:57	B

LM BATTERY MANAGEMENT SCHEDULE

GET (HR:MIN)	BATTERY						
	1	2	3	4	5	6	L
108:18	ON	ON	ON	ON	OFF	OFF	OFF
112:20					ON	ON	
113:17					OFF	OFF	
113:37	OFF	OFF					LMP
127:30	ON	ON	OFF	OFF			CDR
137:45			ON	ON			OFF
147:10			OFF	OFF			CDR
161:15	OFF	OFF	ON	ON			LMP
170:50	ON	ON					OFF
187:27	OFF		OFF		ON	ON	
187:49		OFF		OFF			

L - LUNAR BATTERY MAY BE USED ON EITHER CDR OR LMP BUS

TABLE 2-7
(12/6)

L10H CANISTER CHANGE SCHEDULE

CSM L10H CANISTER CHANGE

CHANGE NO	APPROX GET (HR:MIN)	APPROX ΔT (HR)	INSTALL		REMOVE & STOW		TOTAL TIME INSTALLED
			CANISTER NO.	POSITION	CANISTER NO.	STORAGE LOCATION	
1	08:50	15	3	A	1	B5	*08:50
2	23:00	10	4	B	2	B5	*23:00
3	33:00	14	5	A	3	B5	24:10
4	47:00	10	6	B	4	B5	24:00
5	57:30	14	7	A	5	B6	24:30
6	71:00	12	8	B	6	B6	24:00
7	83:00	12	9	A	7	B6	25:30
8	96:00	13	10	B	8	B6	24:00
9	108:10	24	11	A	9	A9	25:10
10	132:00	11	12	B	10	A9	37:00
11	143:15	25	13	A	11	A9	35:05
12	167:45	14	14	B	12	A9	35:45
13	181:00	14	15	A	13	A3	37:45
14	195:25	13	16	B	14	A3	27:40
15	208:35	10	17	A	15	A3	27:35
16	218:12	13	18	B	16	A3	22:47
17	231:00	10	19	A	17	A4	22:25
18	240:30	12	20	B	18	A4	22:18
19	252:15	12	21	A	19	A4	21:15
20	264:30	16	22	B	20	A4	24:00
21	281:00	8	23	A	21	A5	28:45
22	287:50		24	B	22	A5	23:20

LM L10H CANISTER CHANGE: GET (HR:MIN) 137:30 AND 172:55

TOTAL CM L10H CANISTERS AVAILABLE 26
*GET FROM LIFTOFF

TABLE 2-8
(12/6)

CSM RCS UNCOUPLED CONFIGURATION

FROM (HR:MIN)	TO (HR:MIN)	REASON
8:35	8:55	RATE DAMPING FOR PTC
19:20	19:40	RATE DAMPING FOR PTC
42:35	43:50	RATE DAMPING FOR PTC & HEAT FLOW EXP
63:50	64:10	RATE DAMPING FOR PTC
90:39	91:22	SIM EXP
94:29	106:52	SIM EXP
113:18	182:16	SIM EXP
183:12	184:30	ROLL AXIS ONLY FOR MC/PC
194:14	233:05	SIM EXP
233:05	234:23	ROLL AXIS ONLY FOR MC/PC
236:48	240:45	SIM EXP
240:50	241:10	RATE DAMPING FOR PTC
256:45	259:20	CSM EVA
259:20	263:40	SIM EXP
263:40	264:00	RATE DAMPING FOR PTC
265:00	265:20	RATE DAMPING FOR PTC
276:30	285:30	SIM EXP
285:30	285:35	RATE DAMPING FOR PTC
286:15	287:20	SIM EXP
288:15	288:40	RATE DAMPING FOR PTC

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TABLE 2-9
(12/6)

CSM BURN/EVENT SCHEDULE

BURN/ EVENT	GET I(HR:MIN)/ BURN TIME	ΔVT (FPS)	ULLAGE BT	REFSMMAT	RESULTANT HA/HP(NM)	DATE/ CST
LAUNCH SATURN	00:00 11 MIN 51.5 SEC	24,263	--	LAUNCH	93.4 89.7	DEC 6 20:53
S-IVB TLI	03:21:19.3 5 MIN 45.7 SEC	10,346.8	--	LAUNCH	--	DEC 7 00:14
CSM/LM EJECTION	05:07:00.0 3.0 SEC	1.2	--	LAUNCH	--	DEC 7 1:54
MCC-1	08:45	Nom Zero	--	PTC	--	DEC 7 05:38
MCC-2	35:30	Nom Zero	--	PTC	--	DEC 8 08:23
MCC-3	66:55	Nom Zero	--	PTC	--	DEC 9 15:48
MCC-4	83:55	Nom Zero	--	PTC	--	DEC 10 8:48
LOI SPS	88:55:37.5 06 MIN 35.4 SEC	2979.9	--	LOI	170.8 51.4	DEC 10 13:48
DOI SPS	93:13:08.5 22.9 SEC	198.7	4 JETS 15 SEC	LDG SITE	59.00 15.00	DEC 10 18:06
BAILOUT SPS	93:48:16.8 11.05 SEC	100	4 JETS 17 SEC	LDG SITE	61.5 5.0	DEC 10 18:41
DOI TRIM SPS	AS REQD			LS OR LOPC-1 AS REQD		
UNDOCK & SEP(RCS)	110:27:55.2 3.3 SEC	1.0	--	LDG SITE	60.33 13.6	DEC 11 11:20
CSM CIRC	111:55:22.7 4.0 SEC	70.1	4 JETS 12 SEC	LDG SITE	70.3 54.3	DEC 11 12:48
LOPC SPS	182:35:45.3 18.7 SEC	336.7	4 JETS 12 SEC	LOPC-1	63.0 61.3	DEC 14 11:29
LM JETT	193:58:30.0	2.5	--	LIFT-OFF	62.2 60.3	DEC 14 22:51
CSM SEP RCS	194:03:30.0 12.6 SEC	2.0	--	LIFT-OFF	63.9 62.3	DEC 14 22:56

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TABLE 2-9 (CONT)

CSM BURN/EVENT SCHEDULE

BURN/ EVENT	GET I(HR:MIN) BURN TIME	ΔVT (FPS)	ULLAGE BT	REFSMMAT	RESULTANT HA/HP(NM)	DATE/ CST
TEI SPS	236:39:51.1 2 MIN 22.2 SEC	3045.7	4 JETS 12 SEC	TEI	--	DEC 16 17:33
MCC-5	253:40	Nom Zero	--	PTC	--	DEC 17 10:33
MCC-6	282:18	Nom Zero	--	PTC	--	DEC 18 15:11
MCC-7	301:18	Nom Zero	--	ENTRY	--	DEC 19 10:11
EI	304:18:0.5	NO BURN	--	ENTRY	--	DEC 19 13:11
SPLASH- DOWN	304:31:10.5	NO BURN	--	ENTRY	--	DEC 19 13:24

TABLE 2-10

APOLLO 17 LM DSEA

<u>ACTIVITY</u>	<u>MODE</u>	<u>GET (HR:MIN)</u>	<u>TAPE USED* (HR:MIN)</u>	<u>ACCUM. TAPE USED (HR:MIN)</u>
COMM ACTIVATION	ICS/PTT	108:37	3:58 X 100%	
PDI PREP	VOX	112:35	= 3:58	3:58
PDI PREP	VOX	112:35	0:37 X 63%	
POST TOUCHDOWN (T2)	OFF	113:12	= 0:23.3	4:21
EVA-1 PLSS COMM CK	VOX	116:10	0:50 X 63%	
EVA-1 LMP EGRESS	OFF	117:00	= 0:31.5	4:53
EVA-2 PLSS COMM CK	VOX	138:40	0:50 X 63%	
EVA-2 LMP EGRESS	OFF	139:30	= 0:31.5	5:24
EVA-3 PLSS COMM CK	VOX	162:10	0:50 X 63%	
EVA-3 LMP EGRESS	OFF	163:00	= 0:31.5	5:56
JETTISON #1 PREP	VOX	170:40	0:20 X 63%	
JETTISON #1 POST	OFF	171:00	= 0:12.3	6:08
JETTISON #2 PREP	VOX	185:13	0:17 X 63%	
JETTISON #2 POST	OFF	185:30	= 0:10.7	6:19
ASCENT COMM (L/O -17 MIN)	ICS/PTT	187:46	0:17 X 100%	
LIFT-OFF -2 MIN	VOX	188:01	= 0:17	6:36
LIFT-OFF -2 MIN	VOX	188:01	0:10 X 63%	
INSERTION	ICS/PTT	188:11	= 0:6.3	6:42
INSERTION	ICS/PTT	188:11	1:59 X 100%	
POST DOCKING	OFF	190:10	= 1:59	8:41

*TAPE USED = RECORD TIME X DUTY CYCLE

**REMAINING TAPE (1:19) MAY BE USED AT CREW DISCRETION.

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TABLE 2-11
(12/6)

LM BURN/EVENT SCHEDULE

BURN/ EVENT	GETI(HR:MIN) BURN TIME	AVT (FPS)	ULLAGE BT	REFSMMAT	RESULTANT HA/HP(NM)	DATE/ CST
DOI-2	112:00:33.7 26.9 SEC	9.4	--	LDG SITE	60.0 7.2	DEC 11 12:53
PDI	112:49:37.7 12 MIN 00 SEC	6701.8	4 JET 7.5SEC	LDG SITE	--	DEC 11 13:42
LANDING	113:01:38.1	NO BURN	--	--	LUNAR SURFACE	DEC 11 13:54
EVA-1	116:40	NO BURN	--	--	--	DEC 11 17:33
EVA-2	139:10	NO BURN	--	--	--	DEC 12 16:03
EVA-3	162:40	NO BURN	--	--	--	DEC 13 15:33
ASCENT	188:03:14.6 7 MIN 17.7 SEC	6062.2	None	LIFTOFF	47.85 9.06	DEC 14 16:56
ORBIT INSERTION	188:10:32.3	NO BURN	--	--		DEC 14 17:03
TPI	188:57:32.3 2.7 SEC	76.6	4 JET 10 SEC	LIFTOFF	64.4 46.7	DEC 14 17:50
BRAKING GATES	189:36:35.0 to 189:43:10.5		--	--	62.4 61.8	DEC 14 18:29
DOCKING	190:05:00.0	NO BURN	--	--	62.4 61.8	DEC 14 19:53
LM DEORBIT	195:39:13.0 1 MIN 56.4 SEC	281.8	--	LIFTOFF	64.9 -141.8	DEC 15 01:34

TABLE 2-12

(T2/6)

APOLLO 17 RETURN TO EARTH BLOCK DATA SCHEDULE

DATA	GET UPDATE (HR:MIN)	GETI (HR:MIN)	PAD TYPE
TLI+90	01:30	04:50	COMPLETE P-30
L/0+9	01:30	09:00	P37
L/0+15	08:30	15:00	P37
L/0+25	08:30	25:00	P37
L/0+35	16:30	35:00	P37
L/0+45	16:30	45:00	P37
L/0+55	16:30	55:00	P37
L/0+65	16:30	65:00	P37
*FLYBY	40:55	83:56	P30
*PER+2	82:40	90:56	ABB P-30
TEI 4	85:10	97:22	ABB P-30
TEI 5	91:45	98:41	ABB P-30
TEI 12	95:30	111:56	ABB P-30
TEI 19	95:30	125:49	ABB P-30
TEI 26	118:37	139:43	ABB P-30
TEI 38	137:00	163:24	ABB P-30
TEI 49	144:15	185:17	ABB P-30
TEI 55	170:30	197:01	ABB P-30
TEI 65	195:47	216:43	ABB P-30
TEI 72	213:37	230:39	ABB P-30
<u>PREL</u>			
TEI 75	229:58	236:41	COMPLETE P-30
<u>NOM</u>			
TEI 75	235:32	236:41	COMPLETE P30
<u>ONE REV LATE</u>			
TEI 76	235:32	238:37	ABB P-30

*ASSUMES DOCKED CONFIGURATION

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TABLE 2-12 (CONT)
(12/6)

APOLLO 17 RETURN TO EARTH BLOCK DATA SCHEDULE

NOTES:

1. All block data maneuvers are to the MPL line except
 - a. TLI +90 abort is to the AOL
 - b. Nominal TEI 75 and backup Rev TEI 76 is to the EOM target ($\lambda=166^\circ W$)
2. Pass FLYBY early if pericynthion is not clear of moon
3. The FLYBY and PER+2 maneuvers are docked. All other aborts are undocked.
4. TEI 4 assumes no DOI.
5. TEI 5 assumes DOI.
6. TEI 12 assumes no CIRC.
7. TEI 19 assumes CIRC.
8. TEI 49 assumes no LOPC.
9. TEI 55 assumes LOPC.

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TABLE 2-13
(12/6)

LANDMARK AND LANDING SITE DATA

SITE	REV	LATITUDE (DEG)	LONGITUDE (DEG)	ALTITUDE* (NM)
TAURUS LITTROW		20.164	30.750	-1.95
J-3	3	19.948	40.102	0.0
17-1	12,13,50	20.160	30.809	-1.96
17-2	12**	20.020	30.804	-1.97
17-3	12**	20.272	30.700	-1.89
RP-3	13	-3.694	131.912	0.0
F-1	50	1.863	88.250	0.0

*Difference between landmark radius vector and 938.4935 NM
(mean Lunar Radius)

**Rev 12 Alternates for Perigee < 10 NM

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TABLE 2-14
(12/6)

CRYO MANAGEMENT SCHEDULE

GET HRS:MIN	O_2 HTRS 1,2,&3		H_2 HTRS 1&2		H_2 FANS 1,2,&3		
	AUTO	OFF	AUTO	OFF	AUTO	ON	OFF
00:00	1,2	3	1,2			3	1,2
04:17	1,2,3						
05:05	1,2	3					
08:40	3	1,2			3		
15:10				1,2			
39:05	1,2,3						
39:55	3	1,2					
60:10*	1,2,3						
60:30*	3	1,2					
65:00			1,2			3	
81:15*	1,2,3						
82:50*	3	1,2					
84:40**	1,2	3					
234:18***							
256:50	1,2,3						
259:50	1,2	3					

*If LM/CM $\Delta P > 2.4$ PSID, these actions are required.

**Open 100W cb in oxygen tanks 1 & 2 at 84:40

Close 100W cb in O_2 tanks 1 & 2Open 50W cb in O_2 tanks 1, 2, & 3.

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TABLE 2-15
(12/6)

LUNAR SOUNDER SCHEDULE

REV	TARGET	GET		LONGITUDE		FILM HR:MIN
		START	STOP	START	STOP	
14	LS EMI TEST	115:10	115:59			0:08
16,17,18	HF MODE	118:54	122:59	28°E	3°E	4:05
24-26	GROUND TRACK VHF MODE	135:10	139:15	57°W	64°W	4:05
35	REINER Y & MARE RIDGE VHF MODE	156:51	156:56	49°W	64°W	0:05
36	REINER Y & MARE RIDGE HF MODE	158:50	158:55	49°W	64°W	0:05
39,40	*RCV-ONLY SEP-ON	163:56	167:23	104°E	165°W	N/A
40	MARIUS HILLS HF MODE	166:43	166:48	45°W	60°W	0:05
55	CRISIUM, SERENI- TATIS, FRA MAURO APENNINE BENCH EULER HILLS HF MODE	195:33	196:20	99°E	36°W	0:47
63,64	LS RCV ONLY SEP-OFF HF MODE	211:20	213:19	113°E	110°E	N/A
64	PASTEUR HF MODE	213:19	213:23	110°E	98°E	0:04
64	LS RCV ONLY SEP-OFF HF MODE	213:23	213:41	98°E	49°E	N/A

*REV 40 - "REC-ONLY SEP-ON" IS TERMINATED FOR 5 MIN FOR
"MARIUS HILLS HF MODE".

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TABLE 2-15 (CONT)
(12/6)

LUNAR SOUNDER SCHEDULE

REV	TARGET	GET		LONGITUDE		FILM HR:MIN
		START	STOP	START	STOP	
64	TRANQUILITATIS- SERENITATIS HF MODE	213:41	213:59	49°E	8°W	0:18
64	LS RCV ONLY SEP OFF HF MODE	213:59	214:47	8°W	152°W	N/A
73	TSIOLKOVSKY FERMI HF MODE	231:00	231:06	135°E	117°E	0:06
73	APOLLONIUS VOLCANICS HF MODE	231:26	231:48	58°E	8°W	0:22
73	HERTZSPRUNG HF MODE	232:24	232:33	117°W	144°W	0:09
						TOTAL FILM 10:19

APOLLO 17 FILM BUDGET

CSM																	
CAMERA:	DAC	FILM:	CEX	MAGAZINE:	EE	CAPACITY:	100%	CAMERA:	DAC	FILM:	CEX	MAGAZINE:	EE	CAPACITY:	100%		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	FILM USED	FILM REMAINING	REF
4:20	TL	UNDOCK SABLN LN EJECTION	30%	70%	0%	0:00	UNSCHEDELD	0%	0:00	0%	0%	0:00	SC INT (OPT)	100%	0%	0%	0%
84:25	TL	DOOR JETT	5%	95%	0%	257:30	TF	CMP ON EVA	100%	0%	0%	257:30	EE	FIREBALL	50%	50%	0%
110:59	12	LOW TRK 17-X	2%	92%	0%	303:08	EE	FIREBALL	50%	50%	0%	303:20	EE	DROGUE CHUTE	50%	50%	0%
112:20	13	LOW TRK RP-3	4%	88%	0%												
112:54	13	LOW TRK 17-1	4%	84%	0%												
185:43	50	F-1 TRACK	4%	80%	0%												
186:03	50	17-1 TRACK	4%	76%	0%												
189:38	52	RND7/DOCK	40%	36%	0%												
CAMERA:	DAC	FILM:	CEX	MAGAZINE:	EE	CAPACITY:	100%	CAMERA:	DAC	FILM:	CIN	MAGAZINE:	EE	CAPACITY:	100%		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	FILM USED	FILM REMAINING	REF
110:27	12	UNDOCKIMS	100%	0%	0%	43:00	TL	HEATFLOW	50%	50%	0%	45:20	TL	HEATFLOW	50%	50%	X4
CAMERA:	DAC	FILM:	CEX	MAGAZINE:	DD	CAPACITY:	100%	CAMERA:	DAC	FILM:	CIN	MAGAZINE:	II	CAPACITY:	100%		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	FILM USED	FILM REMAINING	REF
193:58	53	LW JETTISON	50%	50%	0%	8:00	TL	SC INT (OPT)	100%	0%	0%	8:00	TL	SC INT (OPT)	100%	0%	0%

APOLLO 17 FILM BUDGET

CSM					
CAMERA:	DATE:	FILM:	MAGAZINE:	CAPACITY:	REF
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
0:00		UNSCHEWLED	0%	100%	
CAMERA: EL	FILM: CEX	MAGAZINE: KK	CAPACITY: 160 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
19:35 90:51 110:27 116:04	TL 01 12 16	EARTH ATKIN UNDOCKING ATKIN	4 FR 58 FR 10 FR 73 FR	156 FR 98 FR 88 FR 15 FR	0% 0% 0% 0%
CAMERA: EL	FILM: CEX	MAGAZINE: LL	CAPACITY: 160 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
119:37 136:39 142:26 144:02	17 25 28 29	SNADECKI LOG SITE PIFARO ARABIA	46 FR 24 FR 36 FR 21 FR	114 FR 90 FR 54 FR 33 FR	0% 0% 0% 0%

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CSM					
CAMERA:	EL	FILM: CEX	MAGAZINE: MM	CAPACITY: 160 FR	REF
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
146:21 157:35 164:26	25 36 35	PIERCE MAR INGENI D-CALDERA	88 FR 34 FR. 19 FR	72 FR 38 FR 19 FR	0% 0% 0%
CAMERA: EL	FILM: CEX	MAGAZINE: MM	CAPACITY: 160 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
4:20 5:07 190:01 216:56	TL TL 5: 6:	UNDOCK SABRE LM EJECTION DOCKING IMORTUM(S)	10 FR 5 FR 10 FR 28 FR	150 FR 145 FR 135 FR 107 FR	0% 0% 0% 0%
CAMERA: EL	FILM: CEX	MAGAZINE: MM	CAPACITY: 160 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
0:00	IC	EVANS OPT	160 FR	0 FR	OPT

TABLE 2-16

APOLLO 17 FILM BUDGET

CSM									
CAMERA:		FILM:	MAGAZINE:	CAPACITY:	FR	CAMERA:	FILM	MAGAZINE:	CAPACITY:
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	REF
69-41 121:00	01 17	LOG SITE (NORTH)	12 FR 12 FR	103 FR 91 FR	NST NST	0:00	DIV L1 B1	40 FR	0 FR
132-34 144-42	25 29	S8 CORONA (SOUTH)	9 FR 24 FR	82 FR 58 FR	X9 NST	CAMERA:	NK	MAGAZINE:	CAPACITY:
159-36 298-17	37 61	ATTEN. S5 CORONA	12 FR 9 FR	46 FR 37 FR	FSI X7	GET	REV	TARGET	REF
						121:06	17	EARTHSHINE.	40 FR
									X17
CSM									
CAMERA:		FILM:	MAGAZINE:	CAPACITY:	FR	CAMERA:	FILM	MAGAZINE:	CAPACITY:
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	REF
209-09 210:39 218:08 213:58	62 62 66 74	GAGARIN (N) (NORTH) (SOUTH) (SOUTH)	18 FR 20 FR 24 FR 12 FR	97 FR 73 FR 49 FR 37 FR	FSI NST NST NST	133:29 163:12	23 36	200 LT RED 200 LT BLUE	13 FR 13 FR
									X13
									X13
CSM									
CAMERA:		FILM:	MAGAZINE:	CAPACITY:	FR	CAMERA:	FILM	MAGAZINE:	CAPACITY:
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	REF
68:00	TI.	ALFRED	6 FR	64 FR	X1	185:00	49	700 LT POL	24 FR
									X11
CSM									
CAMERA:		FILM:	MAGAZINE:	CAPACITY:	FR	CAMERA:	FILM	MAGAZINE:	CAPACITY:
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	REF
0:00		UNSCHEDED.	0 FR	70 FR		0:00	UNSCHEDED	0 FR	40 FR
CSM									
CAMERA:		FILM:	MAGAZINE:	CAPACITY:	FR	CAMERA:	FILM	MAGAZINE:	CAPACITY:
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	GET	REV	TARGET	REF
0:00		PREFLT CAL	40 FR	0 FR	CAL				

APOLLO 17 FILM BUDGET

CAMERA: DCL		FILM: CEX	MAGAZINE: A	CAPACITY: 160 FR	REF
GET	REV	TARGET	FILM USED	FILM REMAINING	REF
110:30	12	LWCM SEP CABIN (OPT)	10 FR 5 FR 5 FR 5 FR 5 FR	150 FR 145 FR 140 FR 135 FR 40 FR	OPS OPS OPS OPS OPS
110:35	12	LOG SITE			
111:00	12	EARTHREE			
112:35	13	EVA-1			
116:40	13	Film: CEX	MAGAZINE: B	CAPACITY: 160 FR	REF
CAMERA: DCC		GET	REV	TARGET	FILM USED
116:40	13	EVA-1	Film: CEX	94 FR	66 FR
CAMERA: DCC		GET	REV	TARGET	FILM USED
139:20	LS	EVA-2	Film: CEX	155 FR	5 FR
CAMERA: DCC		GET	REV	TARGET	FILM USED
139:20	LS	EVA-2	Film: CEX	94 FR	66 FR
CAMERA: DCC		GET	REV	TARGET	FILM USED
163:40	15	EVA-3	Film: CEX	151 FR	9 FR
CAMERA: DCC		GET	REV	TARGET	FILM USED
163:40	15	EVA-3	Film: NEW	99 FR	61 FR
CAMERA: DCL		GET	REV	TARGET	FILM USED
116:40	15	EVA-1	Film: NEW	130 FR	40 FR
CAMERA: DCL		GET	REV	TARGET	FILM USED
139:20	15	EVA-2	Film: NEW	128 FR	52 FR
CAMERA: DCL		GET	REV	TARGET	FILM USED
139:20	15	EVA-2	Film: NEW	128 FR	52 FR
CAMERA: DCC		GET	REV	TARGET	FILM USED
139:20	15	EVA-2	Film: NEW	162 FR	8 FR

2-24

LM						
CAMERA:	ECU	FILM:	H&V	MAGAZINE:	2	CAPACITY:
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
139:20	LS	EVA-2	161 FR	9 FR		
CAMERA:	DCL	FILM: REV	MAGAZINE: K	CAPACITY: 170 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
139:20	LS	EVA-2	135 FR	35 FR		
CAMERA:	DCL	FILM: REV	MAGAZINE: L	CAPACITY: 170 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
163:46	LS	EVA-3	154 FR	16 FR		
CAMERA:	DCL	FILM: REV	MAGAZINE: H	CAPACITY: 176 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
163:46	LS	EVA-3	165 FR	5 FR		
CAMERA:	DCL	FILM: HOL	MAGAZINE: H	CAPACITY: 170 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
163:46	LS	EVA-3	127 FR	43 FR		
CAMERA:	DAC	FILM: CEX	MAGAZINE: Q	CAPACITY: 100 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
110:30	12	IMAGN SEP	6%	94%	OPS	
CAMERA:	DAC	CABIN (OPT)	13%	81%	OPS	
110:35	12	LOG SITE	6%	75%	OPS	
111:00	12	DESCENT	75%	0%	OPS	
112:50	13	FILM: CEX	MAGAZINE: P	CAPACITY: 100 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
113:02	LS	SURFACE OPT	100%	0%		
CAMERA:	DAC	FILM: REV	MAGAZINE: Q	CAPACITY: 100 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
118:03	SI	ASCENT	100%	0%		
CAMERA:	WCS	FILM: REV	MAGAZINE: R	CAPACITY: 170 FR		
GET	REV	TARGET	FILM USED	FILM REMAINING	REF	
163:40	LS	EVA 3	50 FR.	120 FR		

TABLE 2-16

10/23/72

2-25

TABLE 2-17

MC/LA OPERATIONSNOTE: BECAUSE OF ABUNDANT MC FILM, ALL MC/LA START/STOP TIMES ARE \pm 2 MIN/6°

REV	T START	T STOP	TYPE	LONG(START)	LONG(STOP)	DEG	HR/MIN
1/2	90:48	91:51*	VERT	144°W	26°E	190°	1:03
13/14	114:00	115:03	VERT	162°W	7°E	191°	1:03
14/15	115:59	117:25	VERT	164°W	63°W	259°	1:26
23/24	133:48	134:52	VERT	168°W	2°W	194°	1:04
26/27	139:44	140:46	N.OBL	168°W	4°E	186°	1:03
27/29	140:46	144:46	VERT	4°E	6°W	730°	4:00
35/36	157:25	158:39	S.OBL	147°W	14°W	227°	1:14
38	161:38	163:32	VERT	162°E	177°E	345°	1:54
49	183:21	184:25	VERT	167°E	28°W	196°	1:04
62/63	209:06	211:08	VERT	163°E	150°E	373°	2:03
65	215:05	215:30	N.OBL	152°E	77°E	75°	0:25
65	215:30	215:35	MNVR	77°E	62°E	16°	0:05
65	215:35	216:10	S.OBL	62°E	47°W	109°	0:35
66	216:10	218:07	VERT	47°W	41°W	354°	1:57
73/74	232:39	235:47**	VERT	161°W	13°W	572°	3:08
POST TEI							

*LA OFF AT 91:28 TO AVOID ALTITUDE PROBLEMS

TOTAL 4017° 22:24

**RETR, CLOSE COVER AT 234:05 VERTICAL 3682° 17:15

OBLIQUE 614° 3:22

RUNOUT 321° 1:47

PC OPERATIONS

REV	T START	T STOP	TYPE	LONG(START)	LONG(STOP)	DEG	HR/MIN
1/2	90:51	91:11	STEREO	152°W	144°E	58°	0:20
2	91:18	91:28	STEREO	123°E	95°E	23°	0:10
13/14	114:03	114:33	STEREO	172°W	100°E	66°	0:30
15	116:31	117:00	STEREO	102°E	14°E	88°	0:29
28	141:54	142:19	STEREO	155°E	85°E	70°	0:25
49	183:50	184:09	STEREO	80°E	26°E	54°	0:19
62	209:14	209:29	STEREO	133°F	90°F	43°	0:15
62	209:49	209:51	MONO	33°E	27°E	6°	0:02
74	233:21	233:36	STEREO	67°E	25°E	42°	0:15
74	233:45	233:58	STEREO	5°W	45°W	40°	0:13

514° 2:57

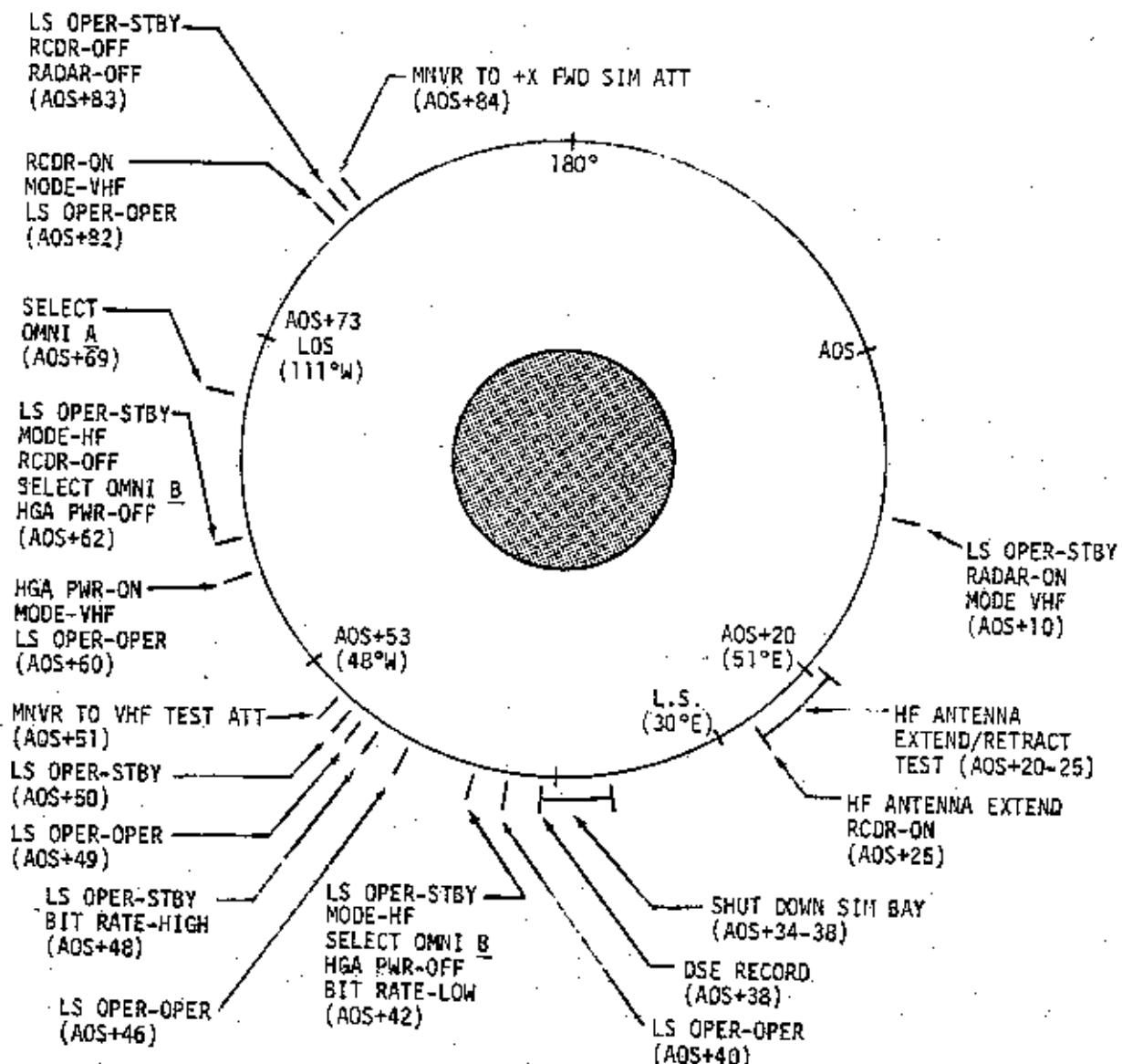
2-26

10/23/72

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**CHART 2-1
(12/6)**

LUNAR SOUNDER EMI TEST
REV 14
FILM USED: 5 MIN

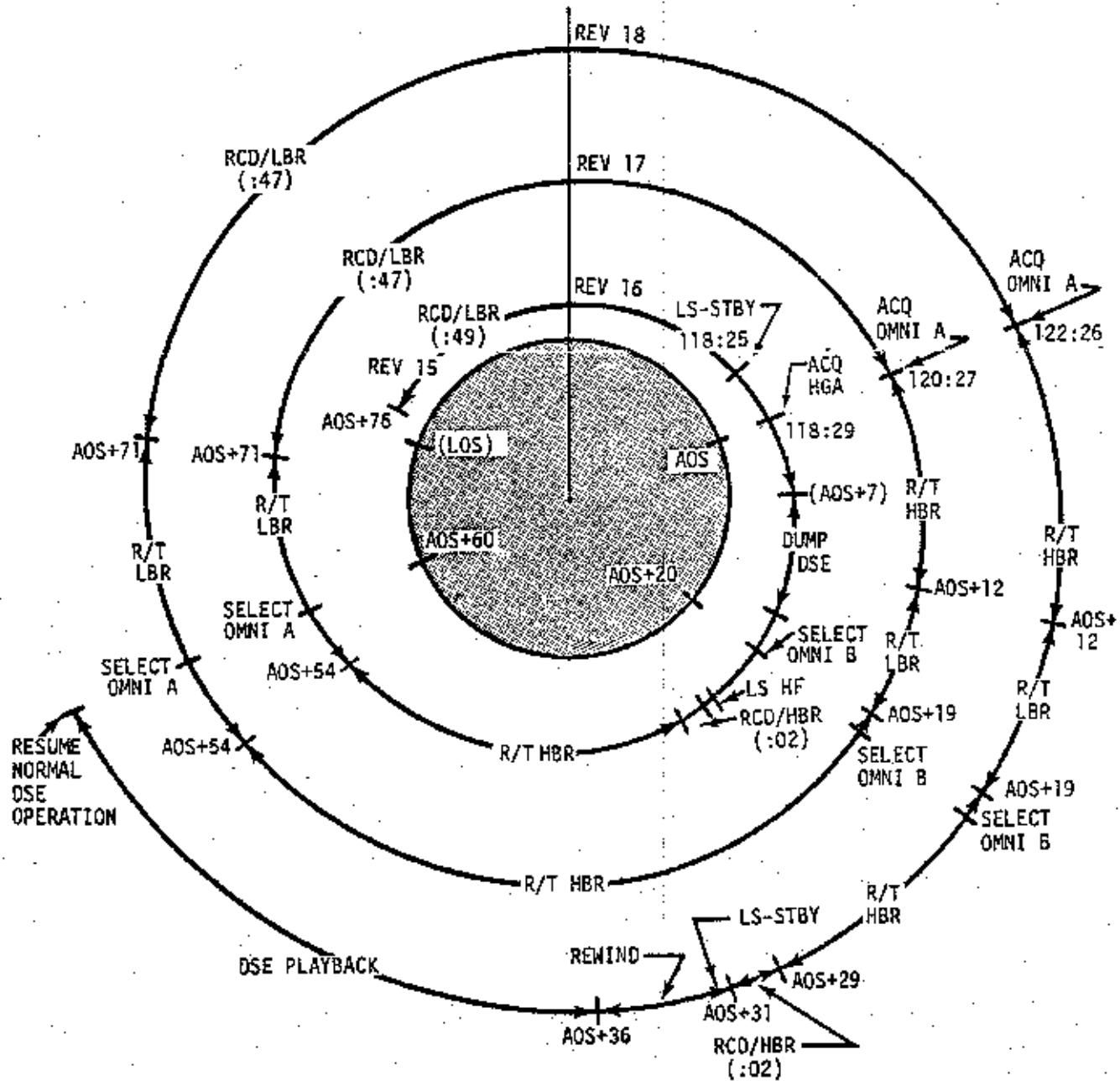


10/23/72

LINAR SOUNDER HE MODE

REVS 16, 17, 18

FILM USED - 245 MIN



10/23/72

CHART 2-3

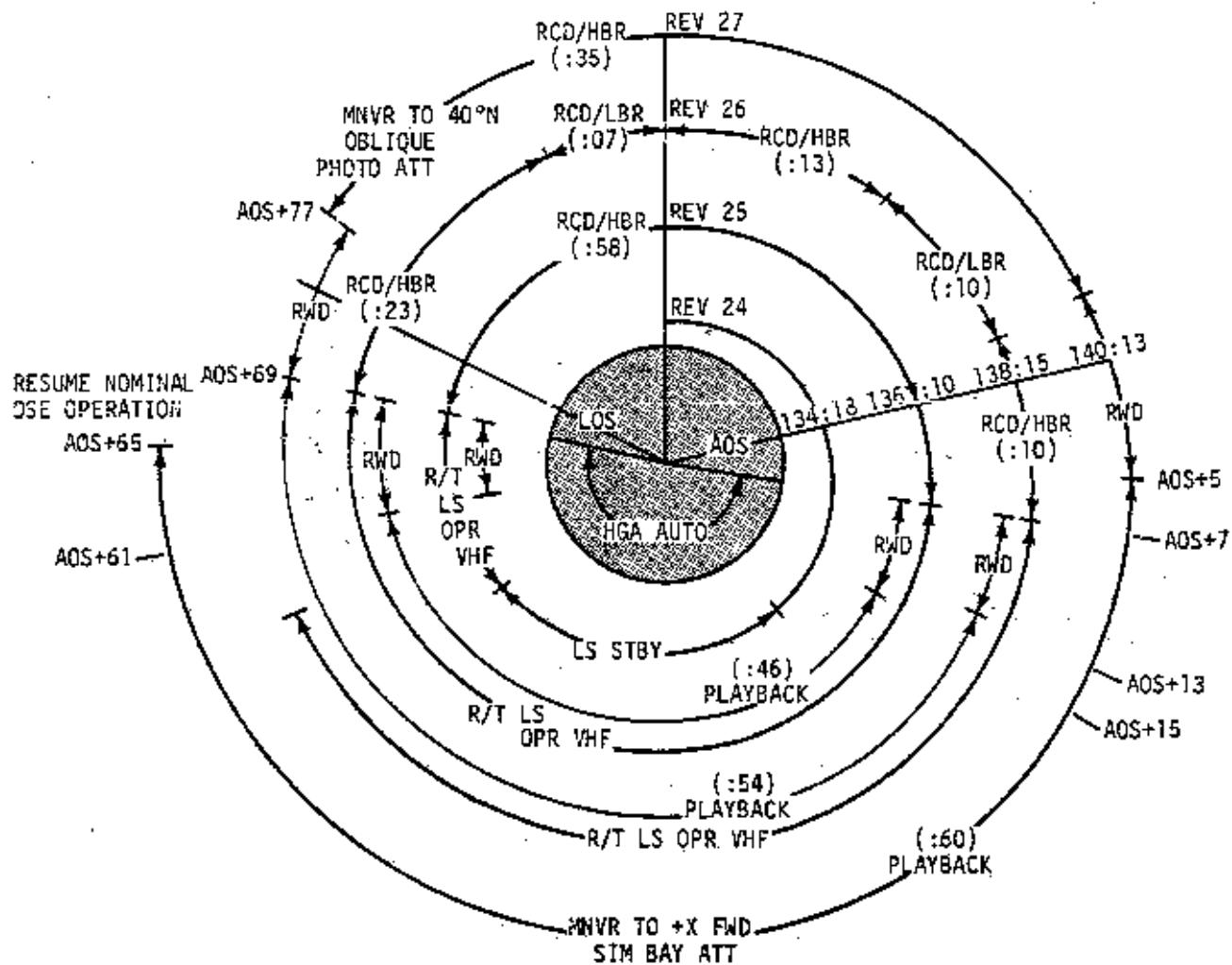
(12/6)

LUNAR SOUNDER VHF MODE

REVS 24, 25, 26, 27

FILM USED - 245 MIN

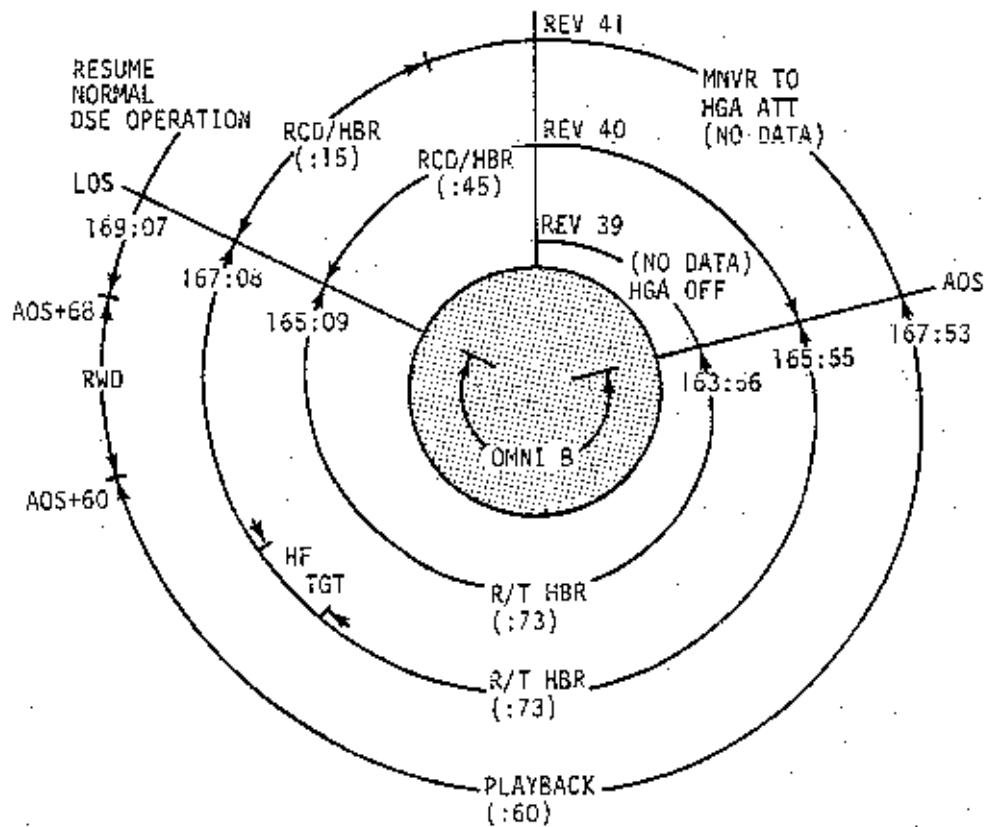
2-29



2-30

10/23/72

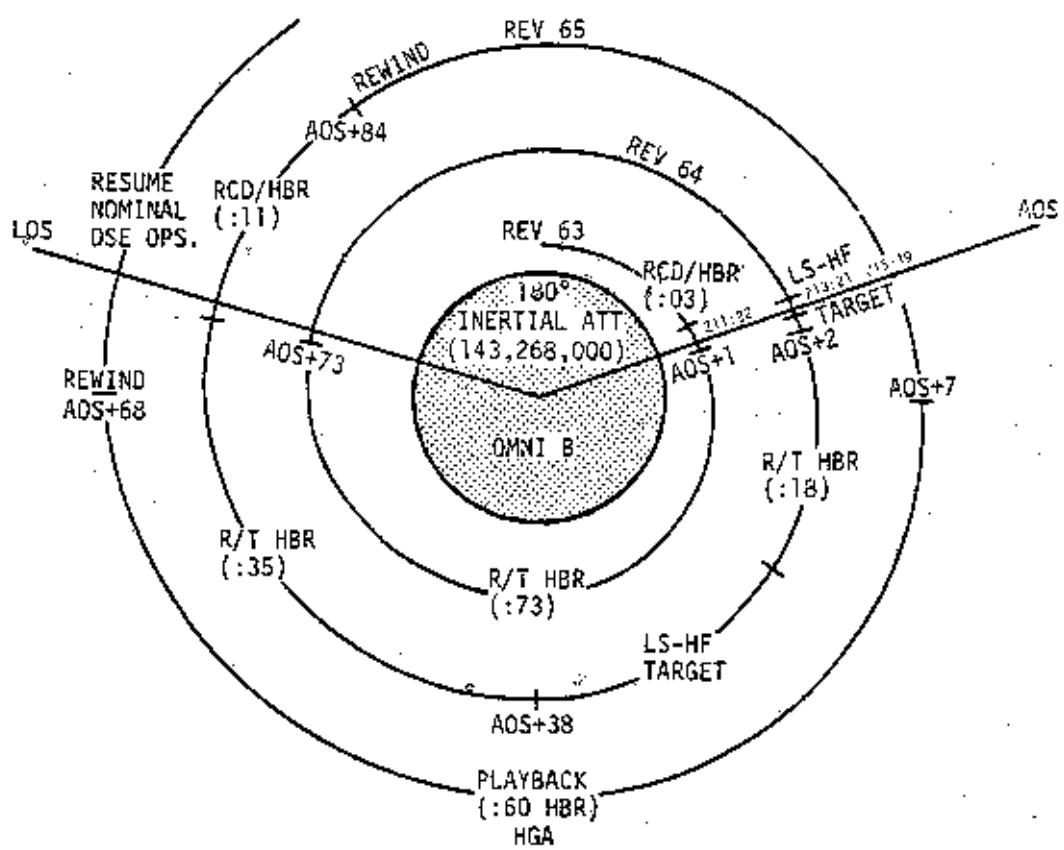
CHART 2-4
(12/6)
LUNAR SOUNDER RECEIVE ONLY (SEP-ON)
REVS 39, 40, 41



10/23/72

2-31

CHART 2-5
(12/6)
LUNAR SOUNDER - RECEIVE ONLY (SEP-OFF)
REVS 63, 64, 65





SECTION 3 - DETAILED TIMELINE

SECTION III



FLIGHT PLAN

2153 CST
MCCC-H

HSK

10

CMD DUMP DSE
U-DATE FLT +90 MIN ABORT
PAO P33 { /0+9 } PAO

EXTEND DOCKLING PROBE PAGE 1 / 2 - 18

GDC ALIGN
REPORT : GYRO TORQUING ANGLES
P52 (OPTION 3)
(LAUNCH ORIENT)

02:00

MISSION EDITION
APOLLO 17 FINAL (12/6)

DATE	TIME	DAY/REV	PAGE
10/23/72	01:00 - 02:00	1/E.0.	3-2

FLIGHT PLANNING BRANCH

NOTES

```
P52 IMU REALIGN
N71: _____
NO51: _____
N93: _____
X: _____
Y: _____
Z: _____
GET: _____
```

FLIGHT PLAN

NOTES

MCC:H

02:00
(31102)
{01111}

:10

:20

CRO

02:30

:40

TLI PREPARATION PAGE L/2-27
GO/NO-GO FOR PYRO ARM (CUE STDIN)
LOGIC ON
TLI NOMINAL & MANUAL PAGE L/2-28

HAW

:50

UPLINK
CSM S.V. & V66

03:00

UPDATE
GO/NO-GO FOR PYRO
ARM
TLI PAD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	02:00 - 03:00	1/E.O.	3-3

TL^I
BURN TABLE

ROLL RATES	P OR Y RATES	P OR Y ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
>20°/SEC TERMINATE	>10°/SEC TERMINATE	+45° TERMINATE	CMC T _{G0} = 0 PLUS 1 SECOND	NO TRIM

APOLLO 17 FINAL (12/6)

10/23/72

E.O./TLC

3-4

FLIGHT PLAN

MCC-H

2353 CST

(31102)
{01111}

UPDATE
GO/NO-GO FOR T&D

:10

TB6 3:11:41

GO/NO-GO FOR TLI

:20

OMNI C

A

TLI

A

OMNI D

C

P00
V66 SET CSM S.V. INTO LM S.V.

N

TLI BURN STATUS REPORT

CDR - TRANS TO CENTER COUCH, CMP - LEFT COUCH

A

NORMAL SC/BOOSTER SEPARATIONS PAGE L/3-1

Y48

(31103)
(01111)
;40

DIRECT 02 VLV - OPEN, UNTIL CABIN IS 5.7 PSI, THEN CLOSE

S-IVB MNVR TO SEP ATT 03:42:05

(002,310,041) OMNI D

UPDATE
GO/NO-GO FOR T&D

:50

S

GO/NO-GO FOR TRANPOSITION AND DOCKING

T

CSM SEPARATION PREP PAGE L/3-1 -

D

0.5°/SEC. V49 AUTO MNVR

N

TO DOCKING ATT. NULL

L

TRANSLATION AND RATES,

O

+X FOR 4 SEC (ΔV ~0.7 FPS)

NOTES

TIG: 03:21:19.3
BT: 5 MIN 45.7 SEC
AVC: 10,346.8 FPS

AT SEC0: S-IVB INERTIAL
AT SEC0 +2 MIN 31 SEC:
S-IVB TO LOCAL
HORIZONTAL, ORB RATE
HEADS DOWN

T&D MNVR
+X FOR 3 SEC (ΔV ~0.5 FPS)
AFTER 15 SEC PITCH UP AT
0.5°/SEC. V49 AUTO MNVR
TO DOCKING ATT. NULL
TRANSLATION AND RATES,
+X FOR 4 SEC (ΔV ~0.7 FPS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	03:00 - 04:00	E.O./TLC	3-5

FLIGHT PLAN

MCC-H

NOTES

0053 CST

04:00
 (11103)
 (01111)

:10

CSM/S-IVB SEP 04:12

CSM MNVR TO DOCK ATT (298,130,319) (04:18)
 V48 (11102)(01111)
 TV (HSK) 04:12 TO 04:32 CM4-BRKT (f22, MONITOR)
 VISUALLY INSPECT AND PHOTOGRAPH S-IVB AND LM, MAG (AA, MN)
DOCK 04:22

CM/LM PRESSURE EQUALIZATION (DECAL) PAGE L/3-5

S-IVB NON-PROPELLIVE VENT START 4:27:05

04:30

S T D N

TUNNEL HATCH REMOVAL (DECAL)

DOCKING LATCH VERIFICATION (DECAL)

LM UMBILICAL CONNECTIONS (DECAL)

HATCH INSTALLATION (DECAL)

S-IVB NON-PROPELLIVE VENT COMPLETE 4:42:05
 PRE LM SEP & EJECTION

**CMD
DUMP DSE**
 UPDATE
 GO/NO-GO FOR PYRO ARM (CUE STDN)
 PYRO ARM
 CSM/LM EJECTION

V48 (21101)(11111)
 GO/NO-GO FOR PYRO ARM (CUE STDN)
 LOGIC ON
 PYRO ARM

(21101)
 (11111)
 :50

05:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	04:00 - 05:00	1/TLC	3-6

FLIGHT PLANNING BRANCH

APOLLO 17

FINAL(12/6)

10/23/72

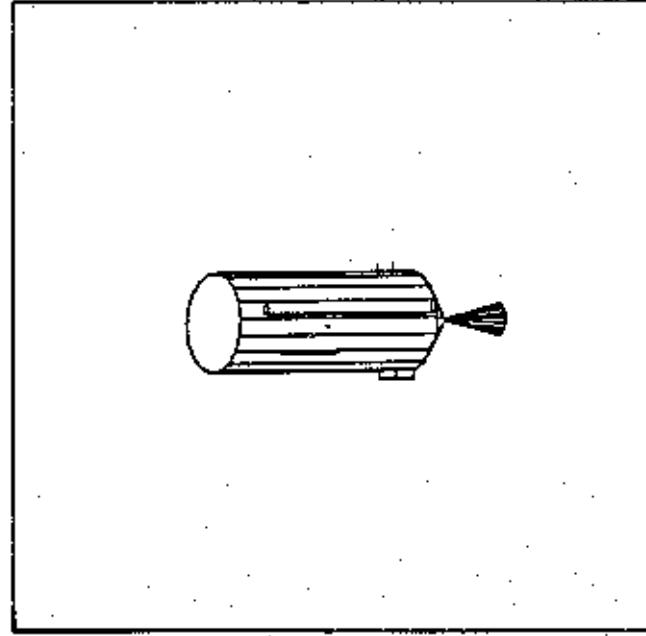
3-7

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FLIGHT PLAN

GET 05:10

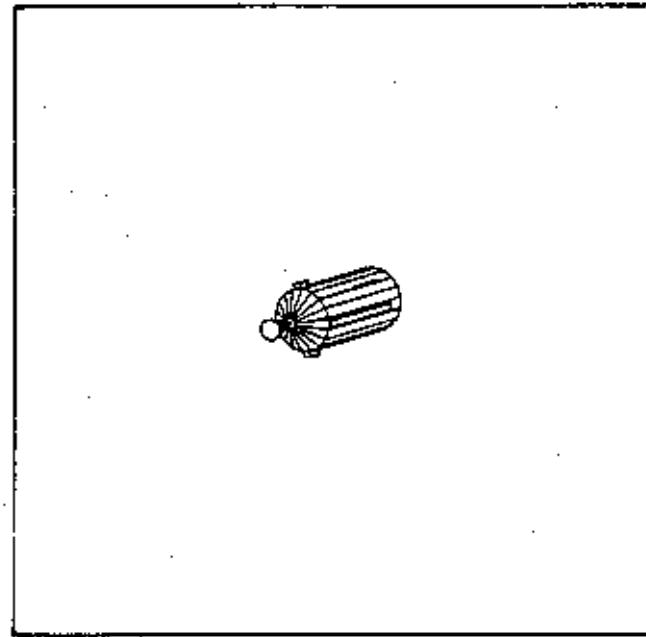
FOV 5°



S-IVB APS EVASIVE INITIATION

GET 05:31

FOV 1°



S-IVB LOX DUMP INITIATION

FLIGHT PLAN

MCC-H

0153 CST		P47 THRUST MONITOR PHOTOGRAPH LM EJECTION, MAG. (AA, NW)
- (2110) - (1111)		[CSM/LM EJECTION] 05:07
TLI CUTOFF + 1 HR 40 MIN	:10	POO, V66 SET CSM S.V. INTO LM S.V. REPORT: GOOD EJECTION
UPDATE GO FOR S-IVB YAW MNVR INITIATION		V49 MNVR TO VIEW S-IVB IN HATCH WINDOW BY <u>05:16</u> [270.0, 129.8, 004.3] HGA P -1, Y 273. REPORT: GO FOR S-IVB YAW MNVR VISUALLY INSPECT S-IVB/TU THERMAL SHROUD
S-IVB YAW MNVR	:20	[S-IVB YAW MNVR] 05:20 (GROUND COMMAND) REPORT: GO FOR S-IVB EVASIVE BURN
UPDATE GO/NO-GO FOR S-IVB EVASIVE BURN		[V48 (2111)(1111)] [S-IVB APS EVASIVE BURN] 05:30 (GROUND COMMAND)
- (2111) - (1111)		REPORT: LM/CM AP INSTALL CABIN FAN FILTER (U2)
05:30		CSM SYSTEMS CHECKLIST
		DEACTIVATE PRIMARY EVAP PAGE S/1-16
		[S-IVB MNVR TO PROPELLANT DUMP ATT] 05:40
		VHF A SIMPLEX - OFF WASTE STOWAGE VENT VALVE - VENT (VERIFY)
		S-IVB CONTINUOUS H ₂ VENT - ON 05:47
		[S-IVB LOX DUMP] 05:51
		DOD F PGA'S TRANSFER ITEMS OUT OF PGA POCKETS TRANSFER PRD TO CGW CMP & LMP OFF BIOMED HARNESS DUMP UCTA
		06:00

NOTES

SPRING ACTUATOR AV
~0.8 FPS. 5 SEC AFTER
EJECTION THERE IS A
4-JET RCS ~X TRANSLA-
TION FOR 3 SEC (AV
~0.4 FPS) TOTAL AV
~1.2 FPS.

THE MNVR TO ACQUIRE
THE S-IVB WILL BE
PERFORMED AT 0.2°/SEC
AND WILL BE INITIATED
AFTER GOOD EJECTION
IS VERIFIED.

GO FOR S-IVB YAW MNVR
INDICATES THAT THE
S-IVB IS IN THE CREW
FIELD OF VIEW AND
ADEQUATE SPACECRAFT
SEPARATION HAS BEEN
ACHIEVED.
THE S-IVB YAW MNVR
WILL BE PERFORMED
NOMINALLY AT LM
EJECTION +13 MIN
EVASIVE BURN AV
~9.4 FPS
LOX DUMP AV ~28 FPS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	05:00 - 06:00	1/TLC	3-9

FLIGHT PLAN

MCC-H

0253 CST

06:00
(2711)
1111

:10

:20

06:30

:40

07:00

DOFF PEA'S

S-IWB APS MCC-1
GET ~ 06:35
AV ~30 FPS

NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	06:00 - 07:00	1/TLC	3-10

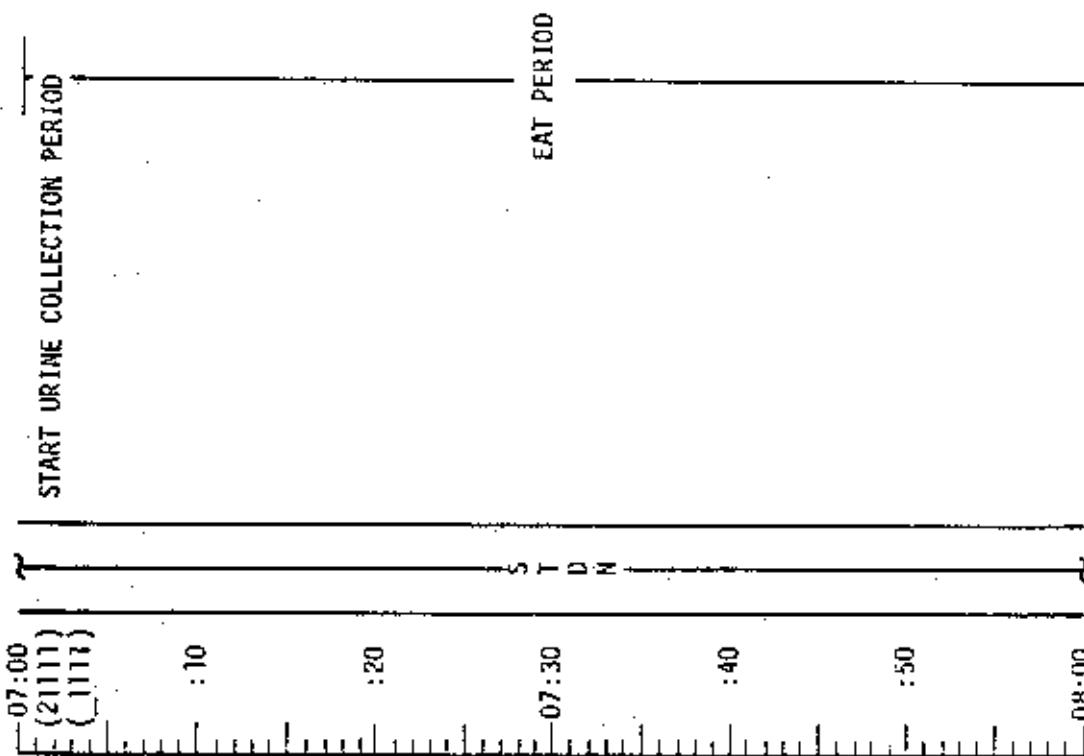
FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

NOTES

0353 CST



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	07:00 - 08:00	1/TLC	3-11

FLIGHT PLAN

MCCC-H

0453 CST

UPLINK
ZERO TRUNNION BIAS
DESIRED ORIENT (PTC)

08:00

WASTE STOWAGE VENT VALVE - CLOSE

LIMIT CYCLE - ON

ATT DEADBAND - MIN

RATE - LOW

BMAg (3) - ATT 1/RATE 2

SC CONT - SCS

P52 (OPTION 3)

(LAUNCH ORIENT)

REPORT: GYRO TORQUING ANGLES

P52 (OPTION 1)

(PTC ORIENT)

EDC ALIGN

SC CONT - CMC

BMAg (3) - RATE 2

CYCLE CMC MODE - FREE/AUTO

V48 (21101)(1111)

CSM G&C CHECKLIST

PASSIVE THERMAL CONTROL (G&N)

PAGE 6/8-2

V49 MWR TO PTC ATTITUDE

(N20,90,000)

H2 HEATERS 1 & 2 - AUTO (VERIFY)

H2 FANS 3 - AUTO

02 HEATERS 1 & 2 - OFF

02 HEATERS 3 - AUTO

P20 OPT 2, X-AXIS

N78 (0,0,0)

N79 (-0.4200, +000.50)

N34 (0,0,0)

LION CANISTER CHANGE
(3 INTO A, STOW 1 in B5)
CSM SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE S/1-29
COMM - OMNI

09:00

NOTES

SC INTERIOR PHOTOGRAPH AT CREW OPTION
CM/DAC/10/CIN- SPOT
(T2.8,1/60.3) 6 fps

MAG (11) _____, FR # _____
PTC REF/INIT ATT

R 196, P 169, Y 055

P52 IMU REALIGN

N71: _____

N05: _____

N93:

X _____
Y _____
Z _____

GET _____

IF MCC-1 IS REQUIRED
PERFORM AT GET 08:45

DAP LOAD STATUS
(21101)(1111)

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	08:00 - 09:00	1/TLC	3-12

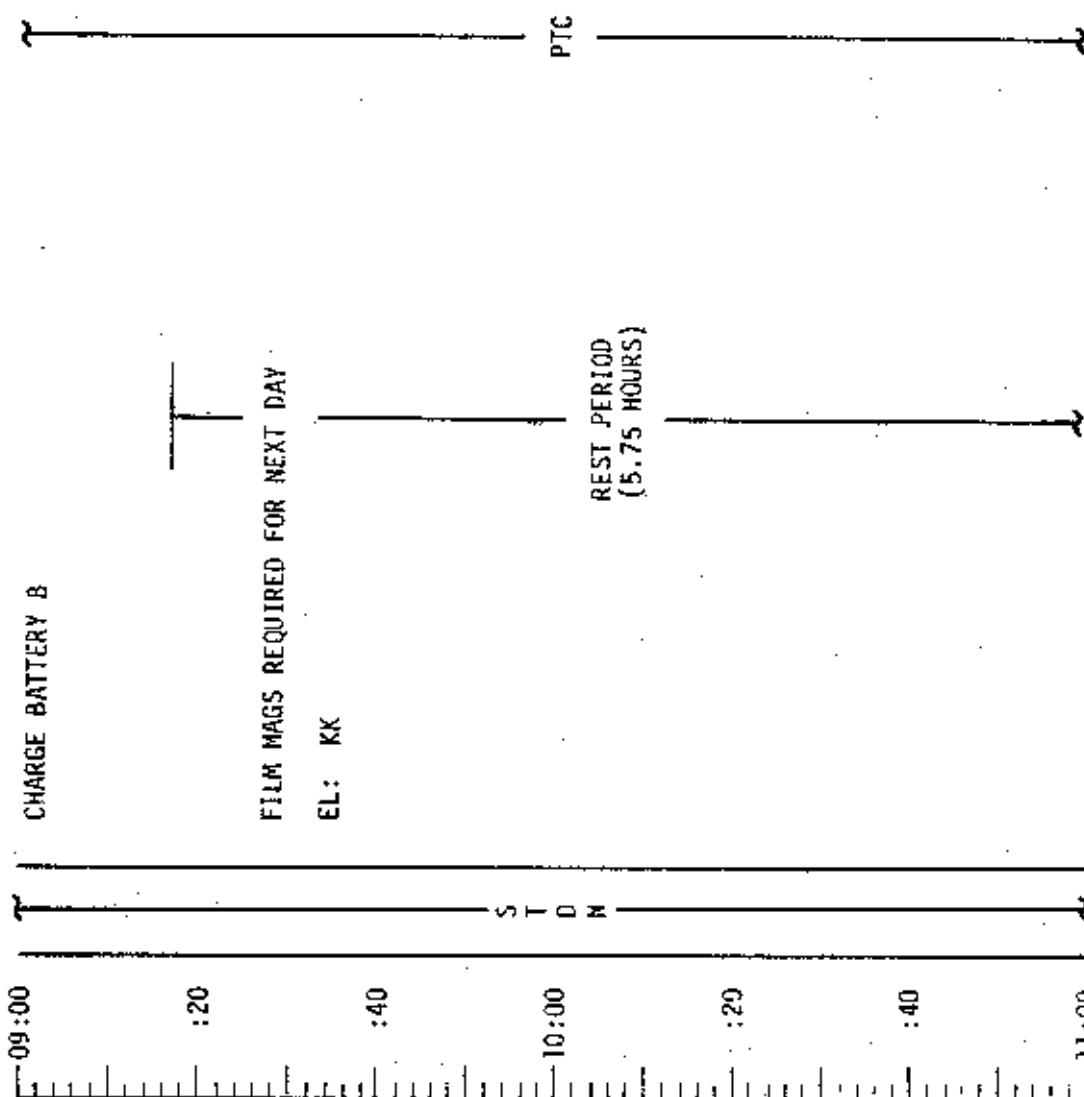
FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

DAP LOAD STATUS
(21101)(1111)



S-IVB APS MCC-2
GET ~10:20
AV NOM. ZERO

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	09:00 - 11:00	1/TLC	3-13

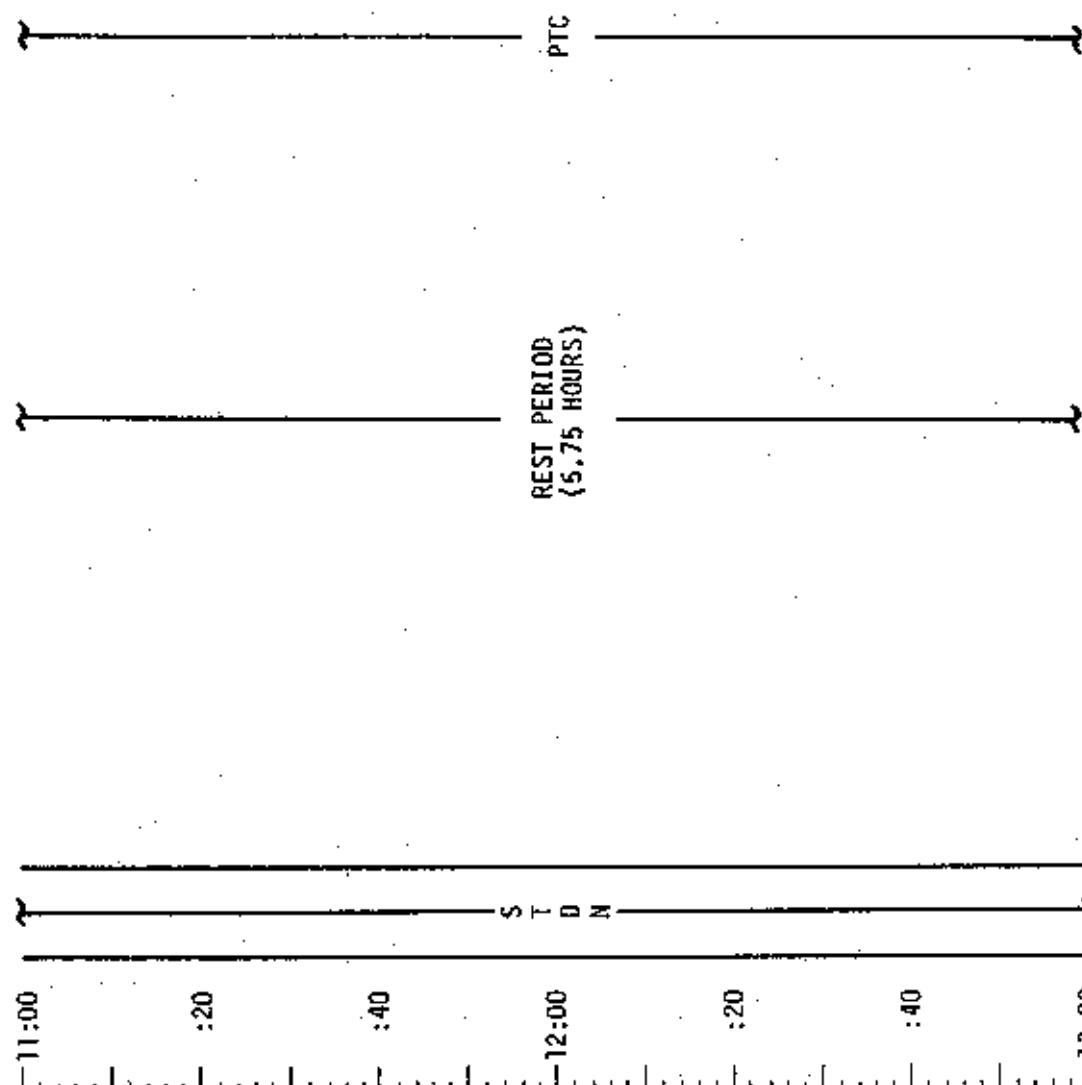
FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

BAP LOAD STATUS
(21101)(_1111)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	11:00 - 13:00	1/TLC	3-14

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0953 CST

:20

:40

14:00

:20

:40

15:00

REST PERIOD
(5.75 HOURS)

PTC

NOTES

DAP LOAD STATUS
(21101)(1111)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	13:00 - 15:00	1/TLC	3-15

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1153 CST

CSM SYSTEMS CHECKLIST
 POST-SLEEP CHECKLIST PAGE S/1-29

H₂ HEATERS 1&2 - OFF

:10

:20

15:30

:40

:50

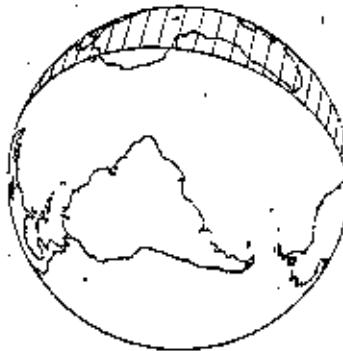
16:00

S T D N

PTC

GET=15:00
 V=6.64m/s

EAT PERIOD



NOTES

DAP LOAD STATUS
 (21101)(1111)
 EARTH DISTANCE
 ~66,783 NM

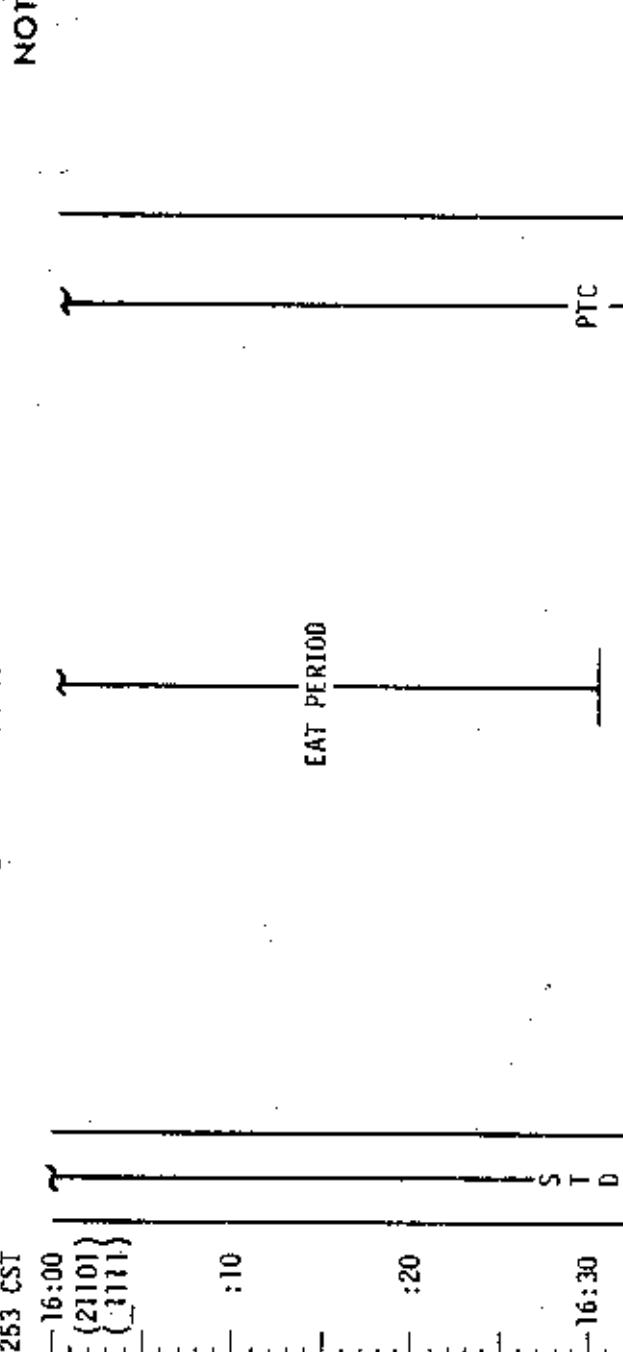
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	15:00 - 16:00	2/HLC	3-16

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES

MCC.C.H



UPDATE
P37 PADS (LAUNCH
+35, 45, 55, & 65)
FLIGHT PLAN

P52 (OPTION 3)
{PTC ORIENT}

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

CSM G&C CHECKLIST

EXIT G&N PTC PAGE 6/8-3
WASTE STOWAGE VENT VLV - OPEN

P52 IMU REALIGN
N71: _____
N05: _____
N93: _____
X: _____
Y: _____
Z: _____
GET: _____

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	16:00 - 17:00	2/1LC	3-17

FLIGHT PLAN

MCC-H

1353 CST
 E {2110} T
 [111] }

V49 MNVR TO OPTICS CALIBRATION ATTITUDE (17:13)
 (175,298,330) HGA P -58, Y 307

P23 CISLUNAR NAVIGATION
 OPTICS CALIBRATION STAR N70 (00022)

P00
 V49 MNVR TO SIGHTING ATTITUDE (17:17)

(204,313,340) HGA P -65, Y 357
 V67 (+80000) (+000070) {+000003}

P23 CISLUNAR NAVIGATION

5 MARKS ON EACH STAR, UPDATE STATE VECTOR

1. N70 (00000) (00000) (00110)

N88 (-53277) (+14235) (+83420)

17:30

S

T

D

N

:40

:50

18:00

55 BETELGEUSE
 (EFH)

2. N70 (00000) (00000) (00120)
 N88 (+02745) (+99128) (+12885)

3. N70 (00000) (00000) (00110)
 N88 (-84900) (+40299) (+34176)

15? GAMMA PRIME
 LEONIS
 (ENH)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	17:00 - 18:00	2/TLC	3-18

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

1453 CST

18:00

(2101)
(1111)

4. N70 (00000) (00000) (00120)
N88 (+00780)(+70773)(+70644)

:10

P00
V49 MNWR TO OPTICS CALIBRATION ATTITUDE (18:22)
(175,298,330) HGA P -58, Y 30Z
P23 CISLUNAR NAVIGATION
OPTICS CALIBRATION STAR N70 (00022)
CONFIGURE FOR URINE DUMP

:20

18:30

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:40

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F

A

O₂ FUEL CELL PURGE
SAMPLE BUSS's (3) - STOW SAMPLES (3)
DUMP URINE FROM BUSS's (3) - STOW
START NEW URINE COLLECTION PERIOD
WASTE WATER DUMP TO 10 PERCENT
CHARGE BATTERY A

:50

19:00

CSM EXP/EVA CHECKLIST

PC & MC FILM CYCLING PAGE X/1-17

ON STOW CUE: CYCLE FILM

CMD
DATA SYS - OFF

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	18:00 - 19:00	2/TLC	3-19

FLIGHT PLANNING TEAM

FLIGHT PLAN

MCC-H

NOTES

1553 CST
 E {2110} T
 {1111}

:10

UPDATE QUADS TO ENABLE FOR PTC SPINUP FLIGHT PLAN

OMNI B
 SECURE HGA: MAN, WIDE P ~52, Y 270

CSM G&C CHECKLIST

PASSIVE THERMAL CONTROL PAGE 6/8-2
 V49 MNVR TO PTC ATTITUDE

(N20,090,000)

P20 OPT 2, X-AXIS

N73 (0,0,0)

N79 (-0,4200, +000.50)

N34 (0,0,0)

CHECK LMP BIOMED

CDR DOFF BIOMED HARNESS

EARTH PHOTOS

CM/EL/250-CEX(f8,1/250,=) 4 FR

MAG (KK) _____, FR # _____

PTC

:20

:20:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	19:00 - 20:00	2/PTC	3-20

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

20:00
[2110]
{1111}

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21:00

EAT PERIOD

PTC

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NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	20:00 - 21:00	2/PTC	3-21

FLIGHT PLANNING DOCUMENT

FLIGHT PLAN

MCC-H

1753 CST

{2110}
1111}

:10

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S T D N

-21:30

:40

:50

22:00

NOTES

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	21:00 - 22:00	2/TLC	3-22

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1853 CST

22:00
(2110)
(111)

:10

:20

UPDATE
FLIGHT PLAN

22:30

S T D N

:40

:50

WASTE STOWAGE VENT VLV - CLOSE
LIQUID CANISTER CHANGE
(4 INTO B, STOW 2 IN B5)

NOTES

PTC

CREW EXERCISE PERIOD

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	22:00 - 23:00	2/TLC	3-23

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1953 CST

P52 OPTION 3
(PTC ORIENT)

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

:10

:20

23:30

:40

24:00

S T D N

:50

EAT PERIOD

NOTES

P52	IMU REALIGN
N71:	-----
N05:	-----
N93:	-----
X	-----
Y	-----
Z	-----
GET	-----

PTC

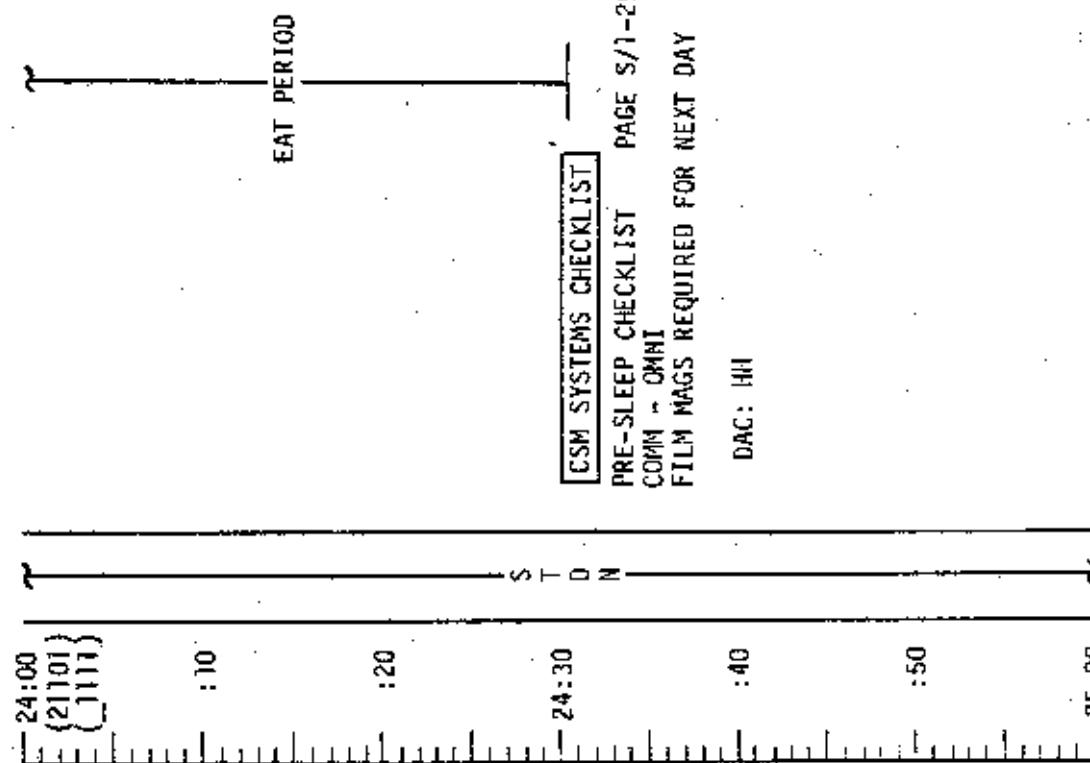
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	23:00 - 24:00	2/TLC	3-24

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES



ONBOARD READOUT	
BAT C	
PYRO BAT A	
PYRO BAT B	
RCS A	
B	
C	
D	
DC IND SEL - MMA OR B	

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	24:00 - 25:00	2/TLC	3-25

FLIGHT PLAN

2153 CST

25.00

11

DAP LOAD STATUS
(21101) (1111)

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6

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2

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MISSION EDITION

EJW 112/6

DATE

173/1

TIME

27

DAY/REV PAGE

26

EIGHT PLANNING BRANCH

SIES
10
Z

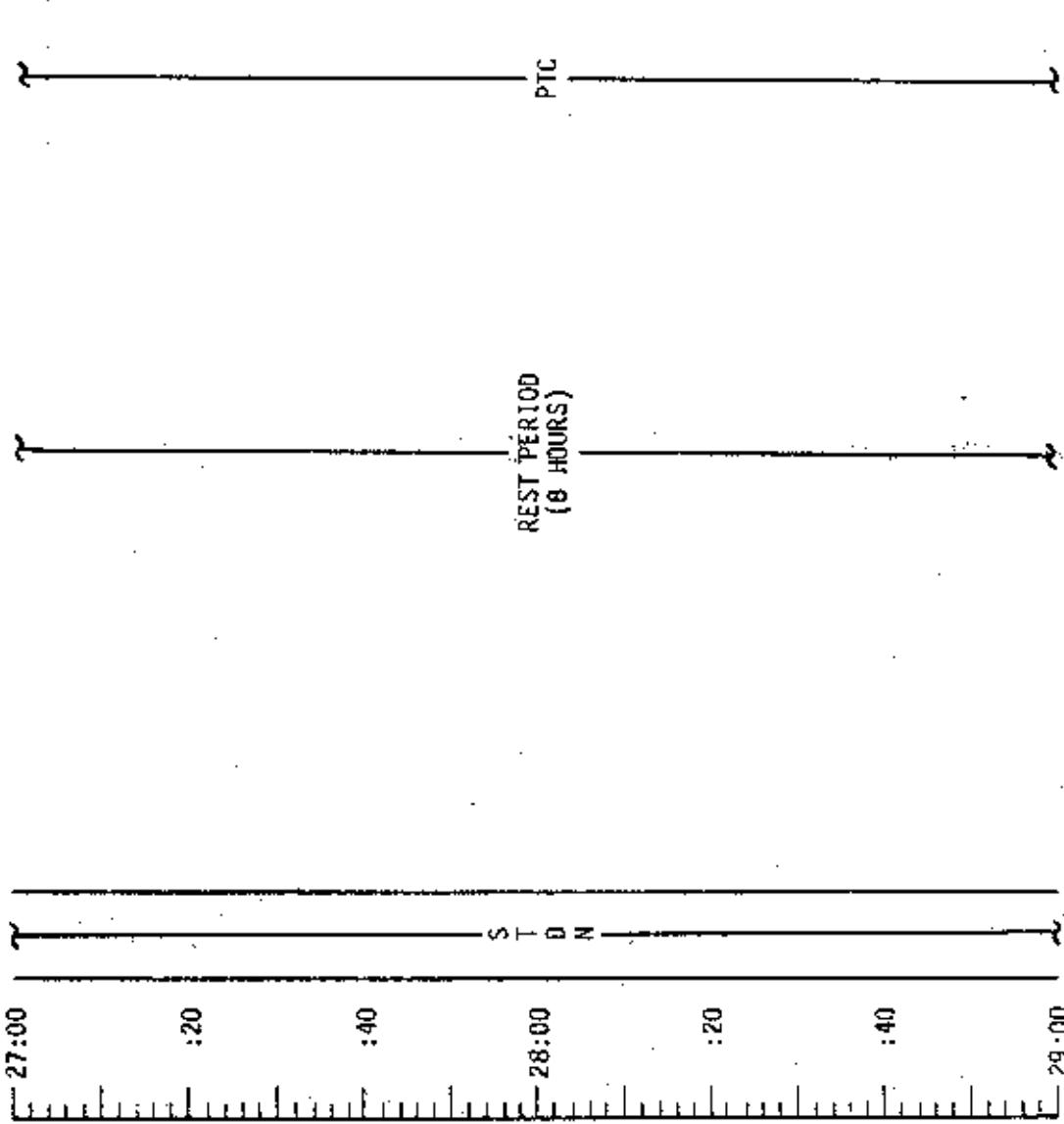
FLIGHT PLAN

MCC-H

2353 CST

NOTES

DAP LOAD STATUS
(21101)(1111)



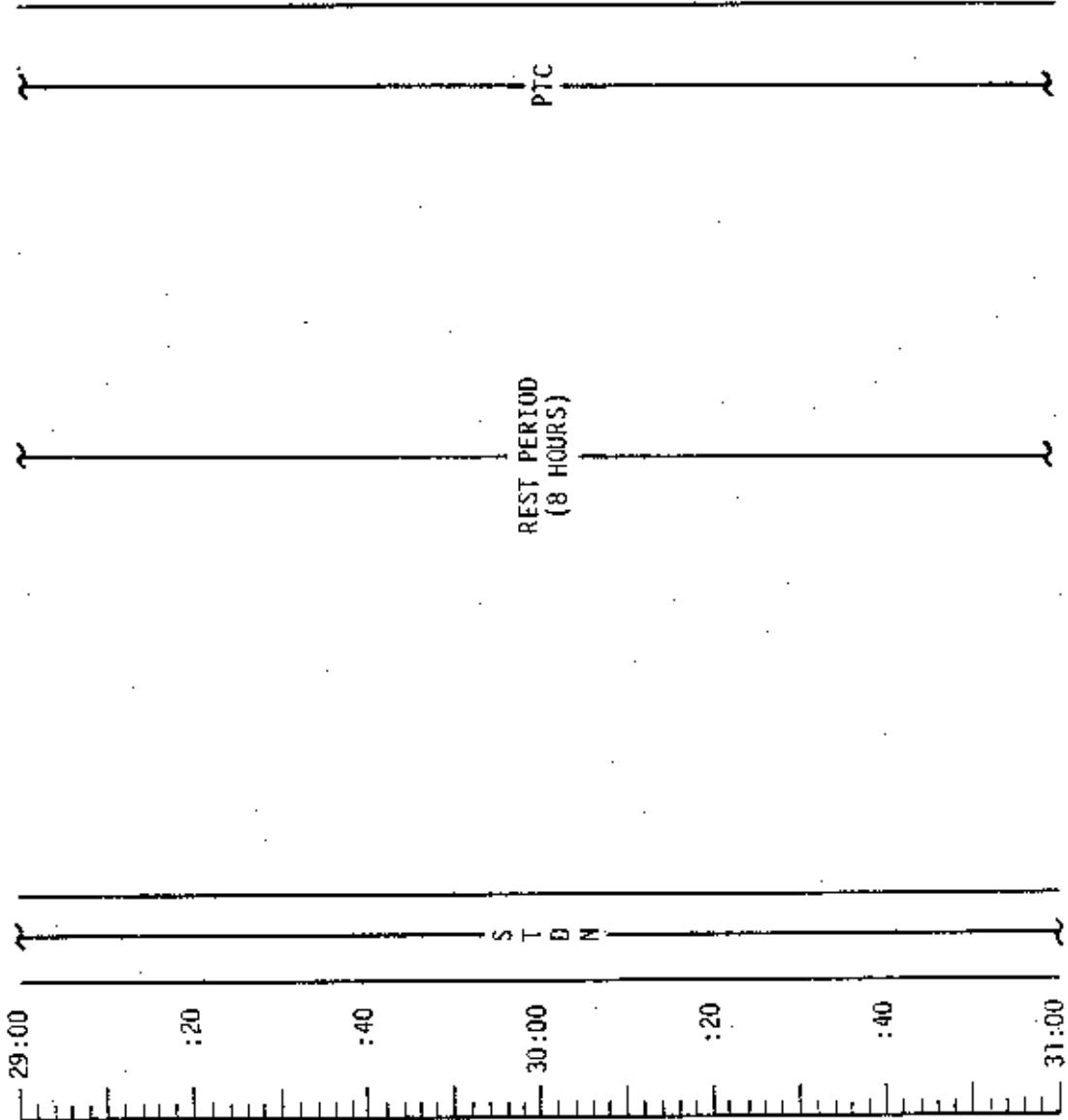
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	27:00 - 29:00	2/TLC	3-27

FLIGHT PLAN

MCC-H

NOTES

DAP LOAD STATUS
(21101)(1111)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	29:00 - 31:00	2/TLC	3-28

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0353 CST

OAP LOAD STATUS
(21301)(J111)



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PTC



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REST PERIOD
(8 HOURS)

S T D N



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:20 :40

31:00



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:20 :40

32:00



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FLIGHT PLAN

MCC-H

0553 CST
33:00

CSM SYSTEMS CHECKLIST
 POST-SLEEP CHECKLIST PAGE S/1-29
LION CANISTER CHANGE
(5 INTO A, STOW 3 IN B5)

:10

UPDATE
GO/NO-GO FOR MCC-2

:20

* CSM G&C CHECKLIST

* EMS AV TEST & NULL BIASS CHECK
PAGE 6/2-5
* REPORT: BIAS

33:30

S T D N

:40

EAT PERIOD

:50

34:00

NOTES

DAP LOAD STATUS
(23101)(J111)
EARTH DISTANCE
~121,497 NM

*PERFORM IF MCC-2
IS REQUIRED

PTC
GET=33:00
V_r=42m/s

FOV=4°



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	33:00 - 34:00	3/TLC	3-30

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES

MCC-H

34:00

(21101)
 (1111)

:10

EAT PERIOD

:20

UPLINK
CSN S.Y. & V66
MCC-2 TGT LOAD

34:30

S

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N

CONFIGURE FOR URINE DUMP
H₂ PURGE LINE HTRS-ON

UPDATE
MCC-2 MNVR PAD
FLIGHT PLAN

:40

:50

35:00

P52 IMU REALIGN
N71: _____, _____
N65: _____, _____
N93: _____, _____
X _____, _____
Y _____, _____
Z _____, _____
GET _____, _____

*PERFORM IF MCC-2
IS REQUIRED

P52 (OPTION 3)

(PTC ORIENT)

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

*DSE G&C CHECKLIST

*EXIT G&N PTC PAGE 6/8-3

*P30 EXTERNAL AV

*V49 MNVR TO PAD BURN ATTITUDE
*SXT STAR CHECK

MISSION EDITION DATE TIME DAY/REV PAGE

APOLLO 17 FINAL (12/6) 10/23/72 34:00 - 35:00 3/TLG 3-31

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-2
BURN TABLE

SPS LIMITS	P OR Y RATES	AFT DEVIATION	MANUAL START ACTION	OVERBURN SHUTDOWN CRITERIA	RCS TRIM GUIDELINES
TIGHT	10°/SEC TERMINATE	+10° TERMINATE	NO MANUAL STARTS NO RESTART	BT + 1 SEC	IF < 2 FPS, TRIM X-AXIS TO 0.2 FPS IF > 2 FPS, NO TRIM

BALL VLV FAILURE - START ON SUSPECT BANK
Shut down good bank to verify; reenable

APOLLO 17 FINAL (12/6)

10/23/72

3/TLC 3-32

MCC-H

FLIGHT PLAN

0753 CST

- *IF SPS MIDCOURSE REQUIRED:
- * PRE SPS BURN SIM PREP (CUE CARD)

:10 H₂ & O₂ FUEL CELL PURGE
 SAMPLE BUSS's (3) - STOW SAMPLES (3)
 DUMP URINE FROM BUSS's (3) - STOW
 START NEW URINE COLLECTION PERIOD
 WASTE WATER DUMP TO 10 PERCENT
 H₂ PURGE LINE HTRS - OFF
 *P40 SPS THRUSTING OR P41 RCS THRUSTING

:20 S T D N :30 TIG: 35:30
 MCC-2 BT: NOM ZERO
 *V66 SET CSM S.V. INTO LM S.V.
 *IF SPS MIDCOURSE PERFORMED:
 * PC - OFF
 * MC - OFF
 * SM/AC PWR - OFF

:30 S T D N :40 REPORT: BURN STATUS
 MCC-2 V48 (2111)(1111)
 *IF SPS MIDCOURSE PERFORMED:
 * PC - OFF
 * MC - OFF
 * SM/AC PWR - OFF
 * REPORT: BURN STATUS
 V48 (2111)(1111)
 REPORT: LM/CM AP
 IF LM/CM AP <2.7 PSID, TUNNEL VENT VLV - VENT
 UNTIL AP >2.7 PSID.

CHARGE BATTERY A

NOTES

*PERFORM IF MCC-2
IS REQUIRED

BURN STATUS REPORT			
X	X		ATIG
X	X		BT
			V gx
			TRIM
X	X		
X	X		R
X	X		P
X	X		Y
X	X		V gx
			V gy
			V gz
			AV C
X	X		OX
X	X		FUEL
X	X		UNBAL

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	35:00 - 36:00	3/TLC	3-33

MCC-H

FLIGHT PLAN

0853 CST

{21111} T
{11111}

:10

CHECK CMP BIOMED
LMP DOFF BIOMED HARNESS

S
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D
N

:20

36:30

:40

:50

37:00

NOTES

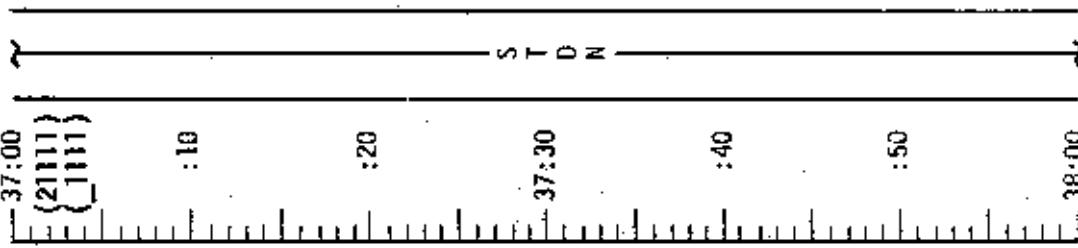
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	36:00 - 37:00	3/TLC	3-34

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0953 CST



NOTES

UPDATE
FLIGHT PLAN

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	37:00 - 38:00	3/TLC	3-35

FLIGHT PLAN BRANCH

FLIGHT PLAN

MCC-H

1053 CST

[(2)]
[(1)]
[(1)]

:10

:20

38:30

S T D N

:40

:50

39:00

EAT PERIOD

NOTES

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
Apollo 17	FINAL (12/6)	10/23/72	38:00 - 39:00	3/FLC	3-36

FLIGHT PLANNING BRANCH

CSM TO LM TRANSFER LIST (TLC)		
CSM LOCATION	ITEM	LM LOCATION
A2	JETTISON BAG	TEMP STOW
ICG	SCISSORS (1)	DATA FILE
CCU CABLE	CWG ELECT ADAPT W/CAP (2)	ON COMM CARRIER
ON CREW	COMM CARR (2)	ON CREW
R5	INFLIGHT STRAPS (4)	ON Q2 UMP
R5	UTILITY STRAPS (3)	LHSSC
R13	70MM MAG (4) IN BAG	AFT RHSSC (BW-L, HCEX-A,E & F)
R13	70MM MAG (3) IN BAG	AFT ENG COVER (BW-H&I,HCEX-D)
R13	70MM MAG (3) IN BAG	FWD RHSSC (BW-G,HCEX-B&C)
R13	16MM MAG (3) IN BAG	2-W/BAG IN TSA (P,Q) 1-WINDOW SEQ
A8	70MM MAG (3) IN BAG W/DOS	CAMR (0)
A8	70MM MAG (2) IN BAG	AFT ENG COVER(BW-J,K,R)
R3	LM ACTIVATION C/L (2)	RHSSC (BW-M,N)
A8	LGT WGT HEADSETS	DATA FILE
A8	CWG'S (2)	LHSSC
A7	APK	AFT ENG COVER AFT BLKHD

FLIGHT PLAN

MCCC-H

NOTES

39:00 PREPARE ITEMS PER CSM TO LM TRANSFER LIST

(21111)
{11111}

O₂ HEATERS 1,2 - AUTO

:10 V49 MNVR TO LM
CHECKOUT ATTITUDE
(39:30)

(299,089,000)
HGA: P -30, Y 270

:20 DIRECT O₂ VLV - OPEN
UNTIL CABIN PRESS
=5.7 PSIA, then CLOSE

S T D N
39:30

:40

REMOVE TSB FROM
TUNNEL AND TEMP

STOW
COUCHES: CDR - 0°, CMP - 0°, LMP - 380°
TUNNEL LIGHTS - ON
CM/LM PRESSURE EQUALIZATION (DECAL)
TUNNEL HATCH REMOVAL (DECAL)
PROBE REMOVAL (DECAL)
DROGUE REMOVAL (DECAL)
O₂ HEATERS 1,2 - OFF
O₂ HEATERS 3 - AUTO

40:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	39:00 - 40:00	3/TLC	3-38

FLIGHT PLANNING BRANCH

FLIGHT PLAN

CSM

CMP

REPORT: DOCKING
TUNNEL INDEX ANGLE
OPEN LM HATCH

LMP TRANSFER TO LM
TRANSFER ITEMS PER
LM ACTIVATION
CHECKLIST

1253 CST
40:00
[(2111)]
[(1111)]

CDR

LM ACTIVATION CHECKLIST PAGE 1-3
IWT TO LM

LM

LMP

:10 IWT TO LM
ENTRY STATUS CHECK

:20

HOUSEKEEPING

40:30

:40

:50

41:00

MCC-H

UPDATE TO CSM
LOT -5 HR FLYBY
FLIGHT PLAN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	40:00 - 41:00	3/TLC	3-39

FLIGHT PLAN

MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	41:00 - 42:00	3/TLC	3-40

CSM	1353 CST	41:00	CDR	LM	LMP
CMP		[21111] (JIM)	HOUSEKEEPING		
	:10				
			COMM ACTIVATION		
		:20			
			SYS TEST = 7D		
			SYS TEST IND = 0 VOLTS		
			CSM/LM VHF VOICE CHECK (SIMPLEX A&B)		
		:30	S-BAND/VHF SIMPLEX VOICE TEST		
		:40			
			OPS PRESSURE C/O		
		:50	COMM DEACTIVATION		
		:00	LMP & CDR INT TO CSM PAGE 1-21		
			LM PWR - ON (AT LMP REQUEST) REPORT: GET(____; SYS TEST = 7D SYS TEST IND = 0.5-3.2 VOLTS		

MCC-H

1453 CST

FLIGHT PLAN

NOTES

LM TO CM TRANSFER LIST (ILC)		
LM LOCATION	ITEM	CM LOCATION
ON CREW	COMM CARR (2)	ON CREW
ON CREW	CWG ADPTR W/CAP(2)	CCU CABLE
TEMP. STG.	LM ACT C/L (1)	R3
TEMP. STG.	JETTISON BAG	A2
JETT BAG	DRINK BAG (2)	TEMP STOWAGE
JETT BAG	FOOD STICK (2)	TEMP STOWAGE

CLOSE LM HATCH INSTALL DROGUE (DECAL) INSTALL PROBE (DECAL) HATCH INSTALLATION (DECAL) LM TUNNEL VENT VALVE - LM/CM AP TUNNEL LIGHTS - OFF	:10	

CYCLE CMC MODE - FREE/AUTO
48 (2110)(1111)

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FLIGHT PLAN

MCC-H

NOTES

1553 CST

43:00
[(2101)
[(1111)

:10

UPDATE
QUADS TO ENABLE
FOR PTC SPINUP

:20

43:30

S T D N

:40

CMD
DATA SYS - ON

:50

CMD
DATA SYS - OFF

44:00

*PERFORM HEAT FLOW AND
CONVECTION DEMONSTRATION

*REPEAT AT 45:20

CSM EXP/EVA CHECKLIST

PC & MC FILM CYCLING PAGE X/1-17
ON STDN CUE: CYCLE FILM

OMNI A
SECURE TGA: MAN, WIDE P -52, Y 270
P20 OPT 2, X-AXIS (G&C PAGE 6/8-2)
N78 (0,0,0)
N79 (-0.4200, +000.50)
N34 (0,0,0)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	43:30 - 44:00	3/TLC	3-42

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

1653 CST

44:00
[21101]
1111

:10

:20

44:30

S T D N

:40

:50

45:00

CREW EXERCISE PERIOD

PTC

NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	44:00 - 45:00	3 / TLC	3-43

FLIGHT DRAWSKING DATA

FLIGHT PLAN

MCC-H

NOTES

1753 CST

45:00
(2101)
1111

:10

:20

45:30

:40

:50

46:00

S T D N

PTC

PERFORM HEAT FLOW AND
CONVECTION DEMONSTRATION

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	45:00 - 46:00	3/TLC	3-44

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

46:00

STOW HEAT FLOW EQUIPMENT

(2110)
(1111)

:10

:20

UPDATE
FLIGHT PLAN

46:30

P52 OPT 3
(PTC ORIENT)

:40

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

:50

LIOH CANISTER CHANGE
(6 INTO B, STOW 4 IN B5)

47:00

NOTES

ENTER LUNAR
PENUMBRA

P52 IMU REALIGN
N71: _____
N05: _____
N93: _____

PTC
X _____
Y _____
Z _____
GET _____

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLO 17	FINAL (12/6)	10/23/72	46:00 ~ 47:00	3/1LC	3-45

FLIGHT PLAN

MCC-H

1953 CST

NOTES

47:00 COR DON BIOMED HARNESS

(2101)
1111

:10

CHECK CDR BIOMED
CMP DOFF BIOMED HARNESS

:20

47:30

S
T
D
N

:40

EAT PERIOD

:50

48:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	47:00 - 48:00	3/TLC	3-46

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

2053 CST

(21101)
(1111)

:10

:20

48:30

:40

:50

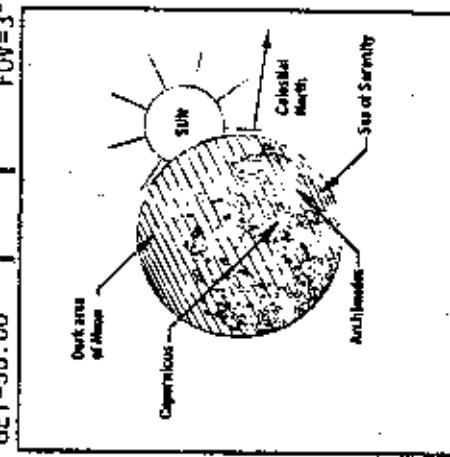
49:00

CSM SYSTEMS CHECKLIST
PRE-SLEEP CHECKLIST PAGE S/1-29
COMM - OMNI
FILM MAGS REQUIRED FOR NEXT DAY
DAC: SS

EAT PERIOD

GET=50:00

FOV=3°



NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	48:00 - 49:00	3/TLC	3-47

FLIGHT PLAN

MCC-H

2153 CST

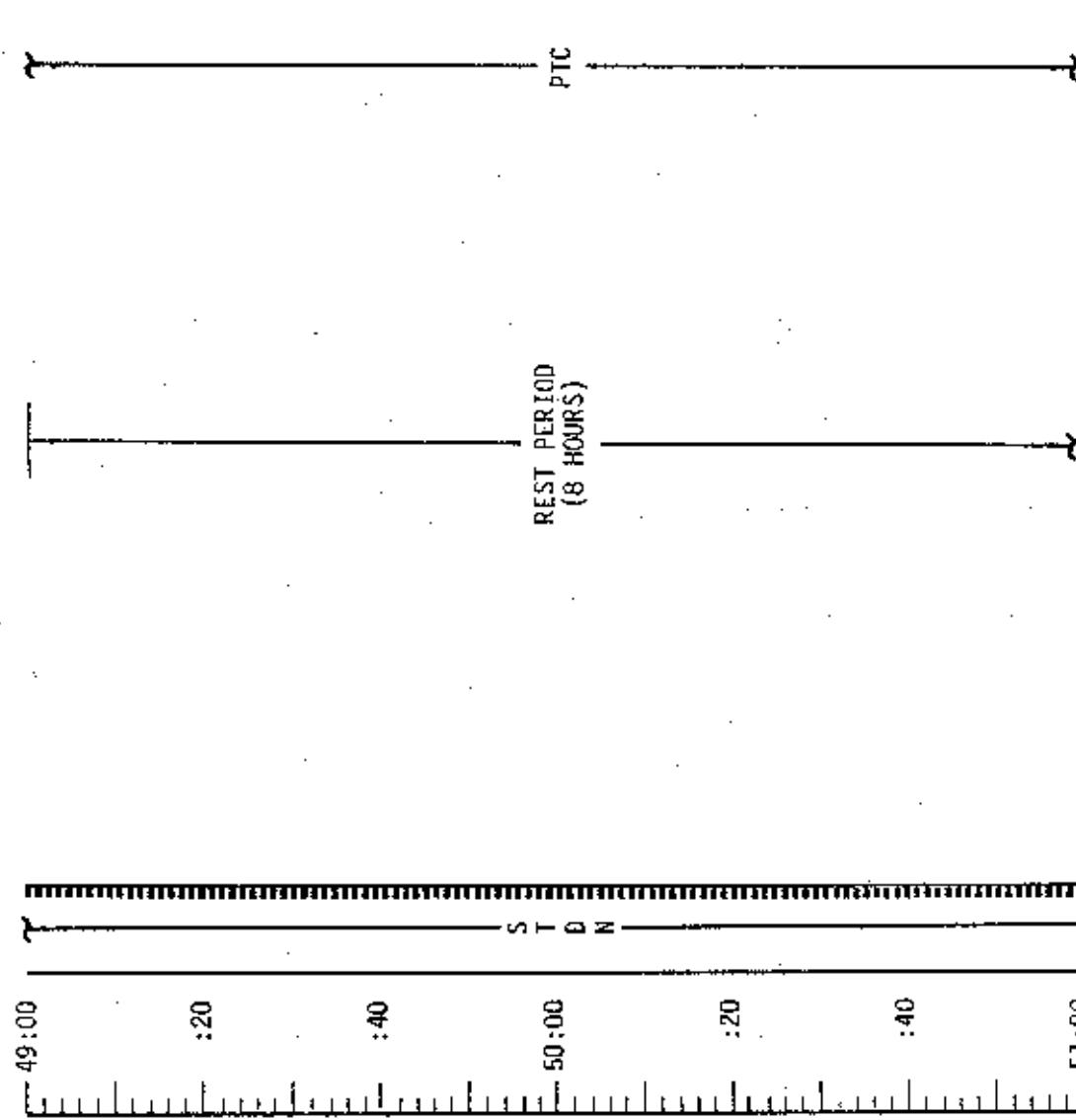
49:00

49:00

44:00

DAP LOAD STATUS
(21101)(1111)

NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	49:00 - 51:00	3/TLC	3-48

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

2353 CST

51:00

51:00

:20

:40

:00

:20

:40

:00

NOTES

DAP LOAD STATUS
(21101)(1111)

EXIT LUNAR PENUMBRA

PTC

REST PERIOD
(8 HOURS)

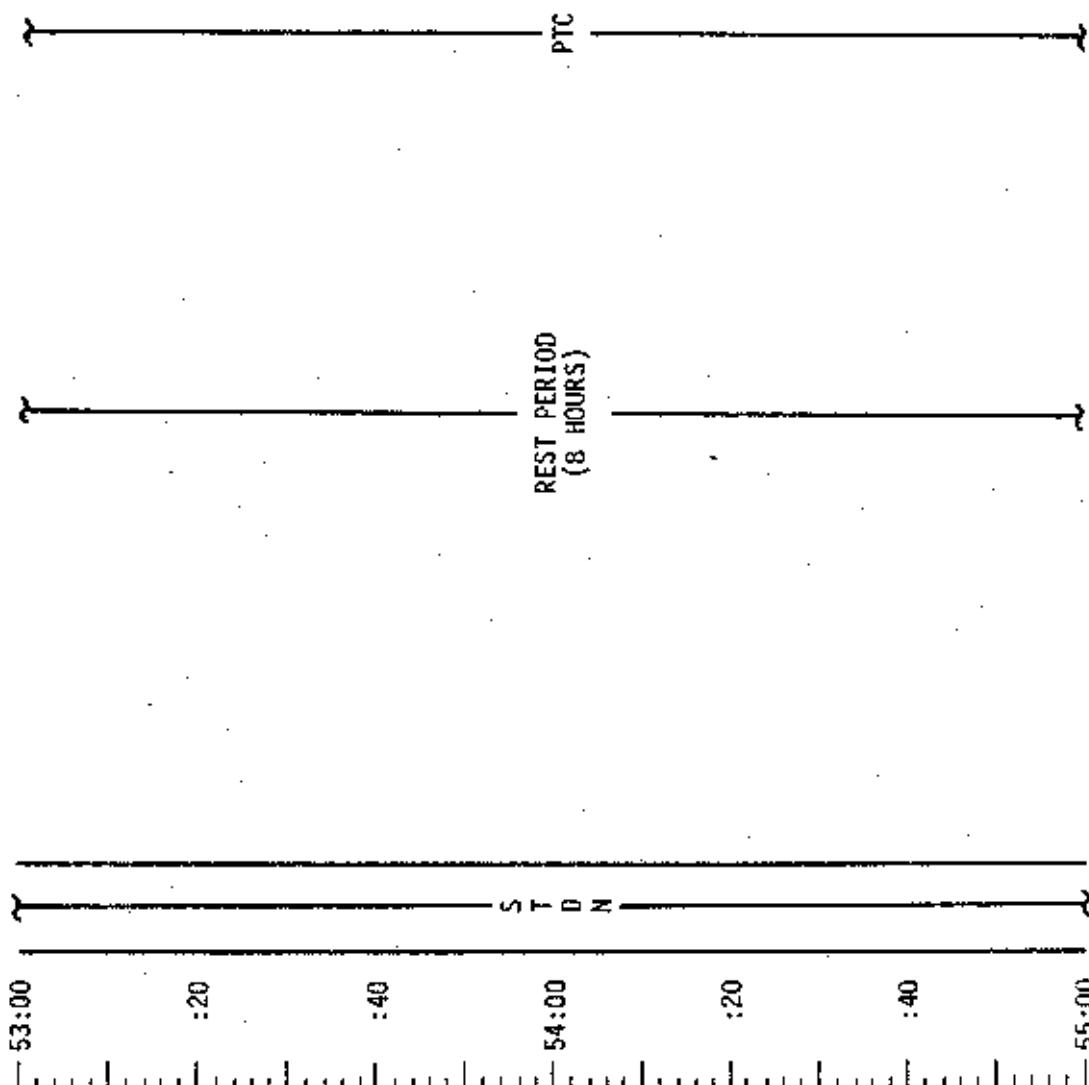
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	51:00 - 53:00	3/TLC	3-49

FLIGHT PLAN

MCC-H

NOTES

DAP LOAD STATUS
(21101)(1111)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	53:10 - 55:00	3/TLC	3-50

FLIGHT PLANNING BRANCH

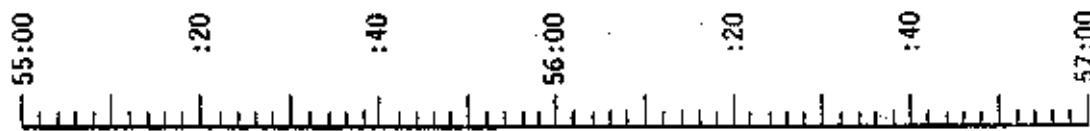
MCC-H

FLIGHT PLAN

NOTES

DAP LOAD STATUS
(21101)\(1111)

0353 CST



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	55:00 - 57:00	3/TLC	3-51

Flight Plan - DDA KICM

FLIGHT PLAN

MCC-H

0553 CST

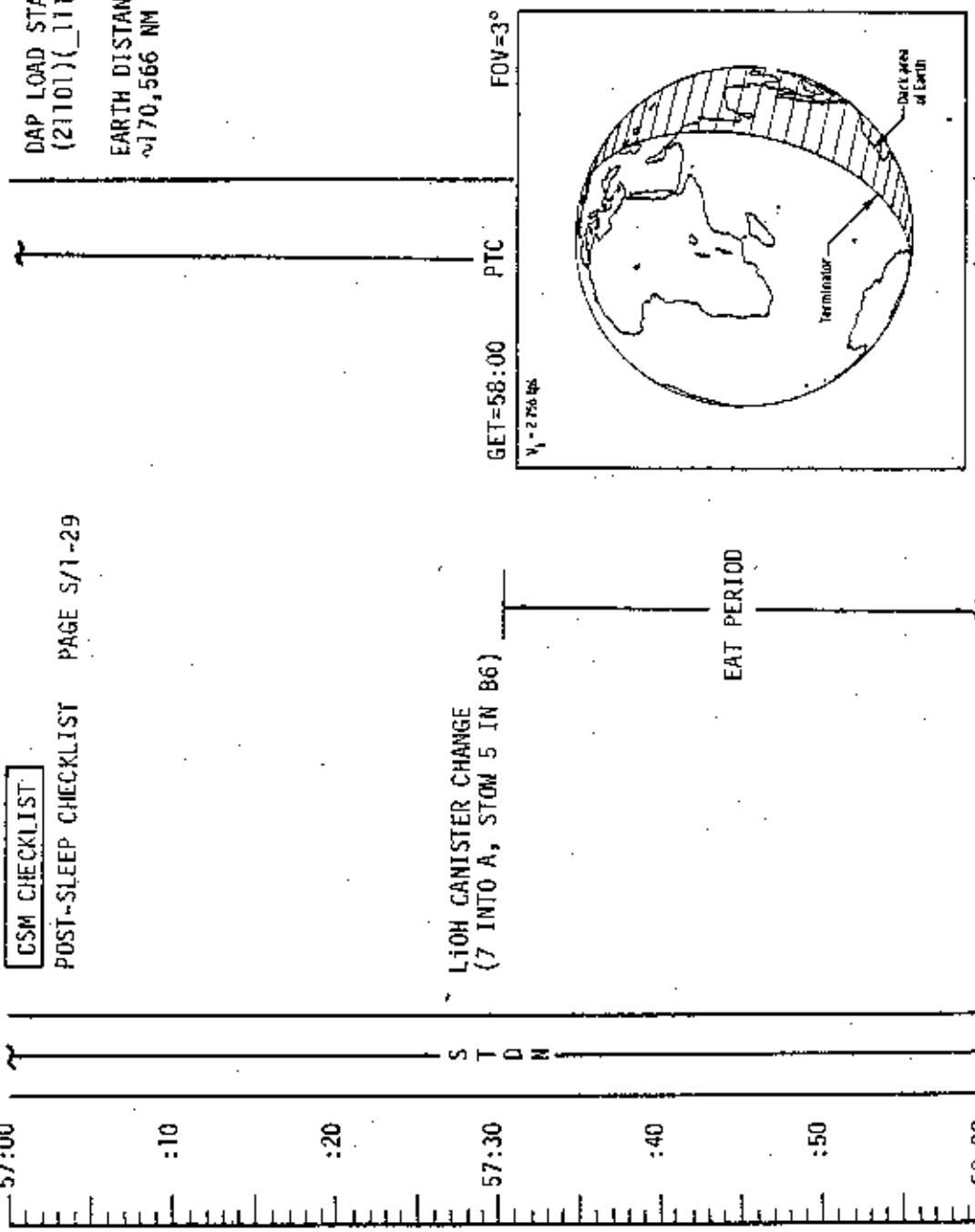
ESM CHECKLIST

POST-SLEEP CHECKLIST

PAGE S/1-29

NOTES

DAP LOAD STATUS
(21101)(1111)
EARTH DISTANCE
~70,566 NM



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	57:00 ~ 58:00	3/TLC	3-52

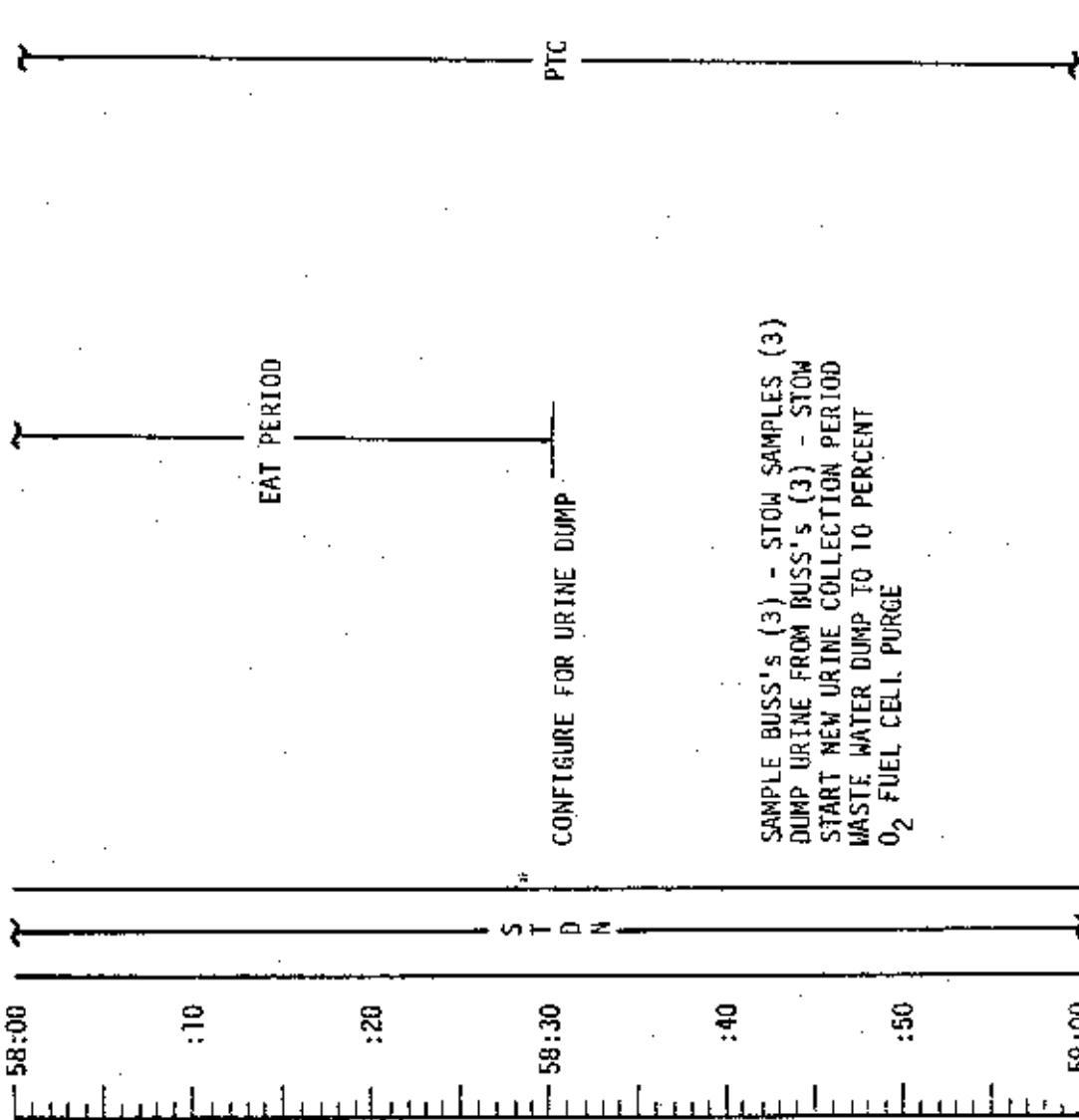
FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

DAP LOAD STATUS
(2110)(J111)



UPDATE
CONSUMABLES STATUS
FLIGHT PLAN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	58:00 - 59:00	4/11C	3-53

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES

LMP DGN BIOMED HARNESS

0753 CST

59:00

:10

CHECK LMP BIOMED
CDR DOFF BIOMED HARNESS

:20

S

T

O

N

59:30

:40

P52 (OPTION 3)
(PTC ORIENT)

:50

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

V48 (21111)(11111)
CHARGE BATTERY B

{21111}

{11111}

E

60:00

MCC-H

DAP LOAD STATUS
(21101)(1111)

P52 IMU REALIGN

N71: _____

N05: _____

N93: _____

X _____

Y _____

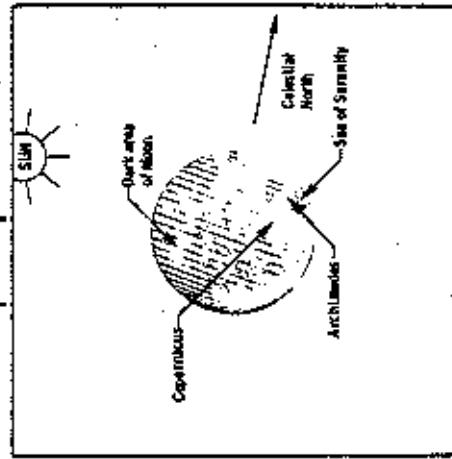
Z _____

GET _____

PTC

GET=60:00

FOV=5°



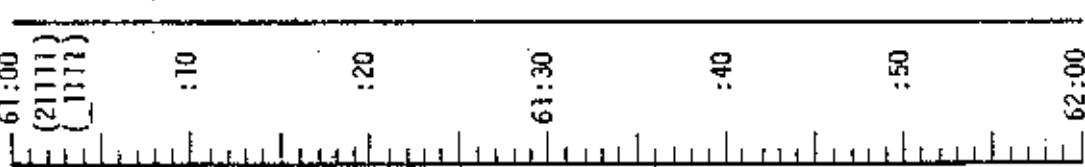
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	59:00 - 60:00	4/TLC	3-54

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0953 CST



CSM

(AT LM REQUEST)
LM PWR - ON
REPORT: GET :
SYS TEST - 70 :
SYS TEST

IND = 0, 5-3, 2 VOLTS

E-MEMORY DUMP

LM

TLM DEACTIVATION

IWT TO CSM

LMP DON PGA WITHOUT
HELMET AND GLOVES

CDR DON PGA WITHOUT
HELMET AND GLOVES

NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	61:00 - 62:00	4/TEC	3-56

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1053 CST

(21111)
(1111)

:10

:20

62:30

:40

:50

63:00

LMP & CDR IVT TO LM
ZIP PGA'S

CMP DON PGA WITHOUT
HELMET AND GLOVES

LMP & CDR IVT CSM

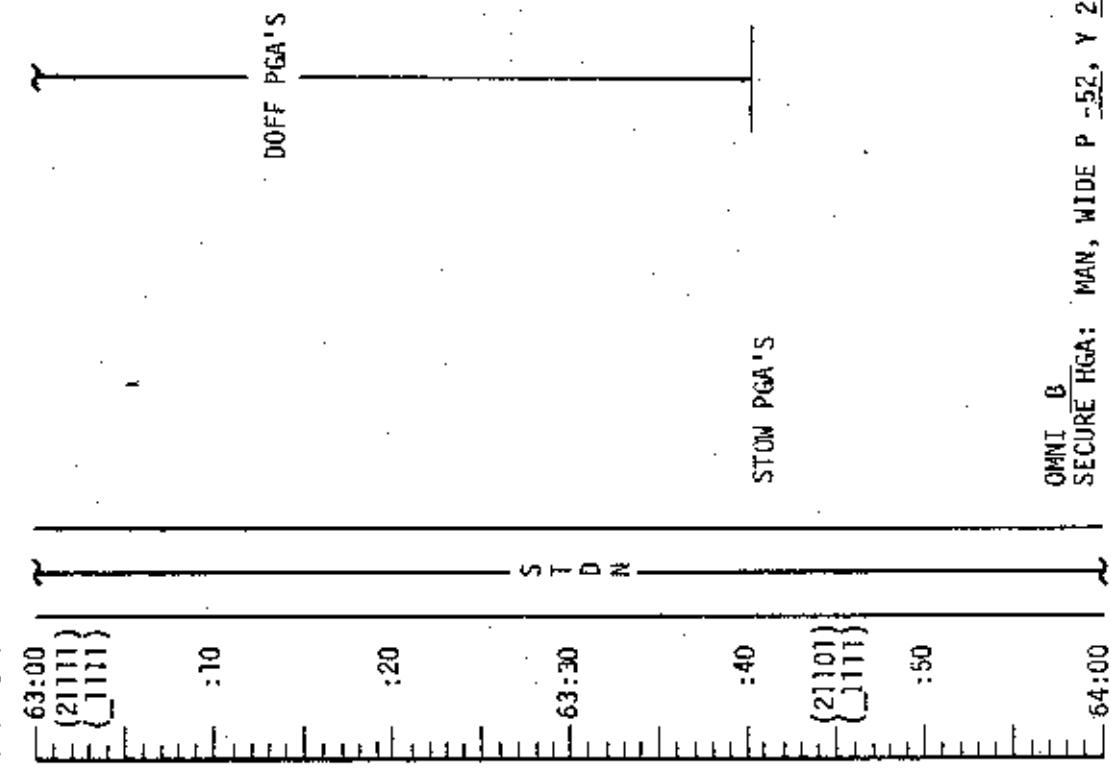
CLOSE LM HATCH
INSTALL DROGUE (DECAL)
INSTALL PROBE (DECAL)
HATCH INSTALLATION (DECAL)
LM TUNNEL VENT VALVE - LM/CMP AP
TUNNEL LIGHTS - OFF

DOFF PGA'S

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	62:00 - 63:00	4 / TLC	3-57

FLIGHT PLAN

MCC-H



NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	63:00 - 64:00	4/TLC	3-58

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

UPDATE
FLIGHT PLAN
QUADS TO ENABLE
FOR PTC SPINUP

64:00
(2110)
(1111)

64:00
(2110)
(1111)

64:00
[CSM G&C CHECKLIST]

PASSIVE THERMAL CONTROL (G&N) PAGE 6/8-2
V49 MNVR TO PTC ATTITUDE

(N20,090,000)
P20 OPT 2, X-AXIS
N78 (0,0,0)
N79 (-0,4200, +000,50)
N34 (0,0,0)

:10

:20

S T D N

64:30

:40

:50

H2 HEATERS 1 & 2 - AUTO
H2 FANS 3 - OFF

65:00

NOTES

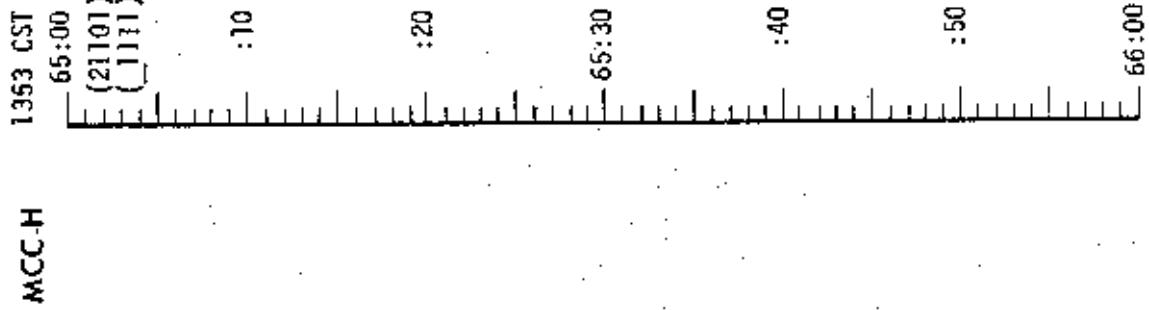
PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	64:00 - 65:00	4 / TLC	3-59

FLIGHT PLAN

MCC-H

NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	65:30 - 66:00	4/TLC	3-60

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-4

1453 CST

66:00
 (2110)
 {
 1111}

:10

:20

66:30

S T D N

:40

:50

67:00

L0I -22 HOURS

NOTES

T PRC

IF MCC-3 IS REQD
 PERFORM AT GET 66:55

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	8/28/72	66:00 - 67:00	4/1LC	3-61

FLIGHT PLANNING RANCH

FLIGHT PLAN

MCC-H

1553 CST

UPDATE
FLIGHT PLAN

67:00

(21101)
[1111]

:10

:20

67:30

S

T

D

UPLINK
LIFTOFF TIME
(IF REQUIRED)

:50

68:00

NOTES

T EPHEN UPDATE	
LOAD B	
01D	—
03	—
04	—
05	—

LIFTOFF TIME WILL BE
UPDATED IF THE TIME
OF REV 2 MERIDIAN
CROSSING DIFFERS
MORE THAN + 1 MIN
FROM 90:59:22

PTC

SYNCHRONIZE MISSION TIMER TO CMC CLOCK (IF REQUIRED)
NOTE, 1706E (T EPHEN VERIFICATION BY STDN,
COPY FROM DSKY ON STDN CUE).
COPY T-EPHEN IN FP SUPPLEMENT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	67:00 - 68:00	4/TLC	3-62

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

CSM EXP/EVA CHECKLIST
 (2110) ALFMED PAGE X/2-1
 (1111) MAG (SS)

1653 CST

68:00
 (2110)
 (1111)

:10

:20

S

T

D

H

68:30

CMD
 DSE RECORD
 PCM BIT RATE - LOW

:40

:50

69:00

PTC

ALFMED

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	68:00 - 69:00	4/1LC	3-63

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1753 CST

69:00
 (21101)
 {
 1111}

:10

:20

69:30

S
 T
 D
 N

CMD
DSE
 REWIND

:40

:50

70:00

CHECK CMP BIOMED
 LMP DOFF BIOMED HARNESS

PTC

ALFMED

CMP DON BIOMED HARNESS

NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	69:00 - 70:00	4/TLC	3-64

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1853 CST

(21101)
 (1111)

:10

CMD
DATA SYS-ON

CMD
DATA SYS-OFF
USE PLAYBACK

S T D N

:20

:30

:40

:50

71:00

CSM EXP/EVA CHECKLIST

PC AND MC FILM CYCLING PAGE X/1-17
ON STDN CUE: ACQUIRE HGA
ON STDN CUE: CYCLE FILM

ON STDN CUE:

OMNI ^B
SECURE HGA: MAN, WIDE P -52, Y 270
P52 (OPTION 3)
(PTC ORIENT)

P52	IMU REALIGN
N71:	_____
N05:	_____
N93:	_____
X	_____
Y	_____
Z	_____
GET	_____

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

L10H CANISTER CHANGE
(B INTO B, STOW 6 IN B6)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	70:00 - 71:00	4 / FLC	3-65

FLIGHT PLAN

MCC-H

NOTES

1953 CST

71:00
[2110]
[111]

71:10

:10

:20

71:30
S
T
D
N

:40

:50

72:00

T
PIC

EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	71:00 - 72:00	4/TLC	3-66

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

2053 CST

72:00
 (2110)
 (111)

:10

:20

72:30

S

D

H

T

N

W

I

F

R

P

Y

Z

:30

:40

:50

73:00

EAT PERIOD

CSM SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE S/1-29

COMM - OMNI
FILM MAGS REQUIRED FOR NEXT DAY

DAC: BB

EL: QQ, KK

ONBOARD READIUT	
BAT C	
PYRO BAT A	
PYRO BAT B	
RCS A	
B	
C	
D	
DC IND SEL - MA OR B	

NOTES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	72:00 - 73:00	4/TLG	3-67

FLIGHT PLAN

MCC-H

2153 CST

73:00

:20

:40

74:00

S T D N

:20

:40

75:00

REST PERIOD
(8 HOURS)

PTC

NOTES

DAP LOAD STATUS
(21101) (J111)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	73:00 - 75:00	4/TLC	3-68

FLIGHT PLANNING BRANCH

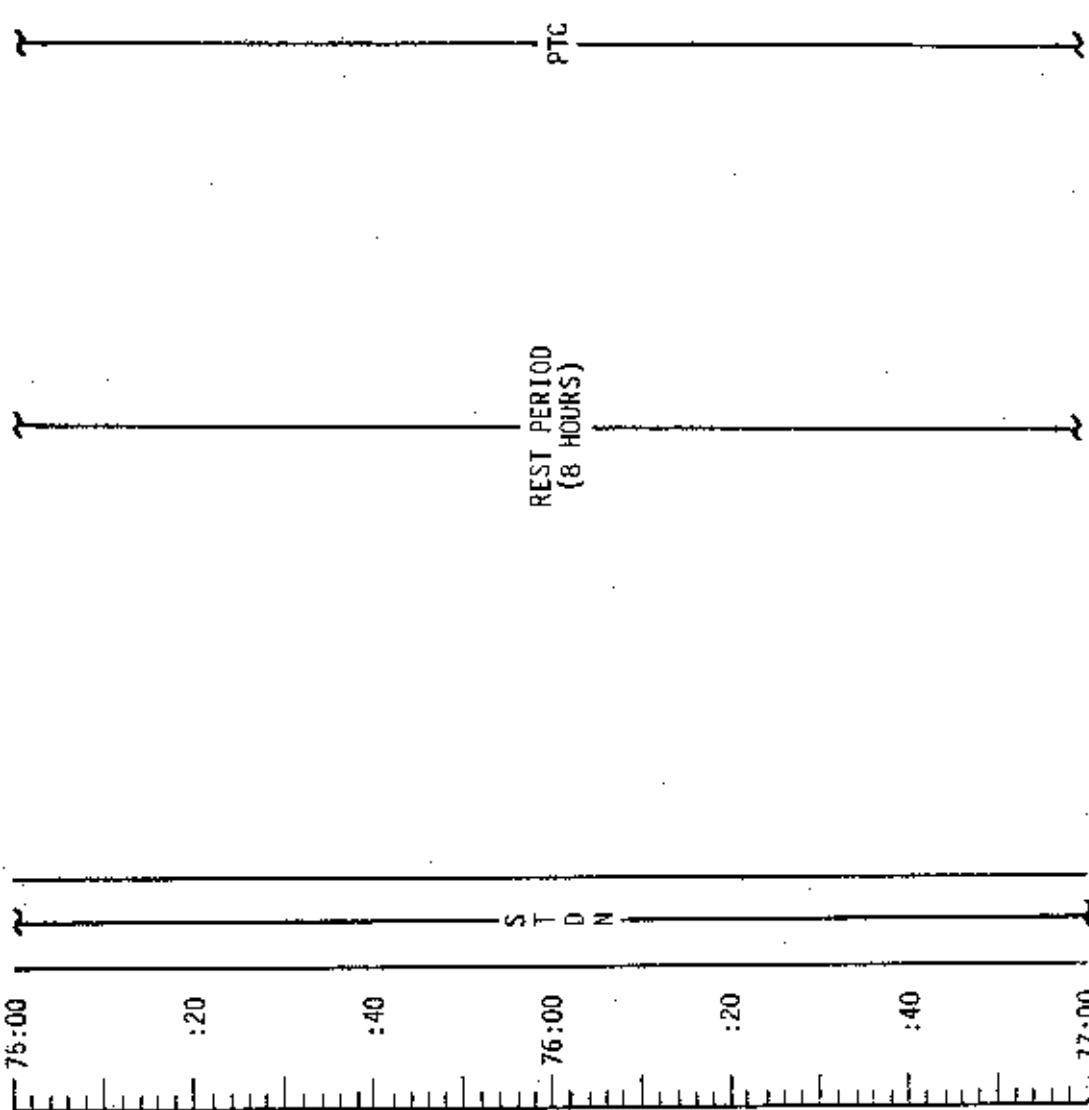
MCC-H

2353 CST

FLIGHT PLAN

NOTES

DAP LOAD STATUS
(21101)(1111)



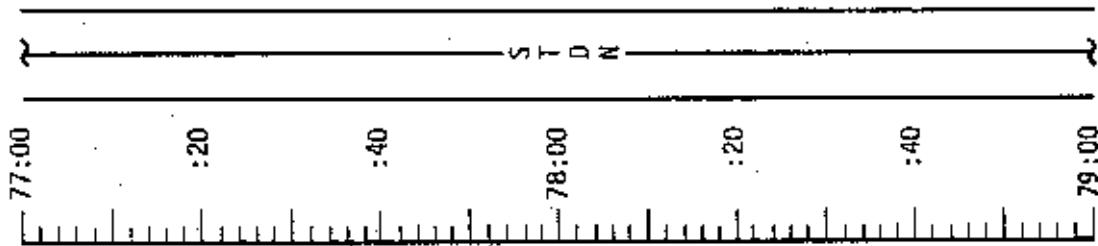
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
AF010 17	FINAL (12/6)	10/23/72	0700 - 0700	4/TLC	3-69

FLIGHT PLAN DRAFT

FLIGHT PLAN

MCC-H

0153 CST



NOTES

DAP LOAD STATUS
(21101)(1111)

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	77:00 - 79:00	4/TLC	3-70

FLIGHT PLANNING BRANCH

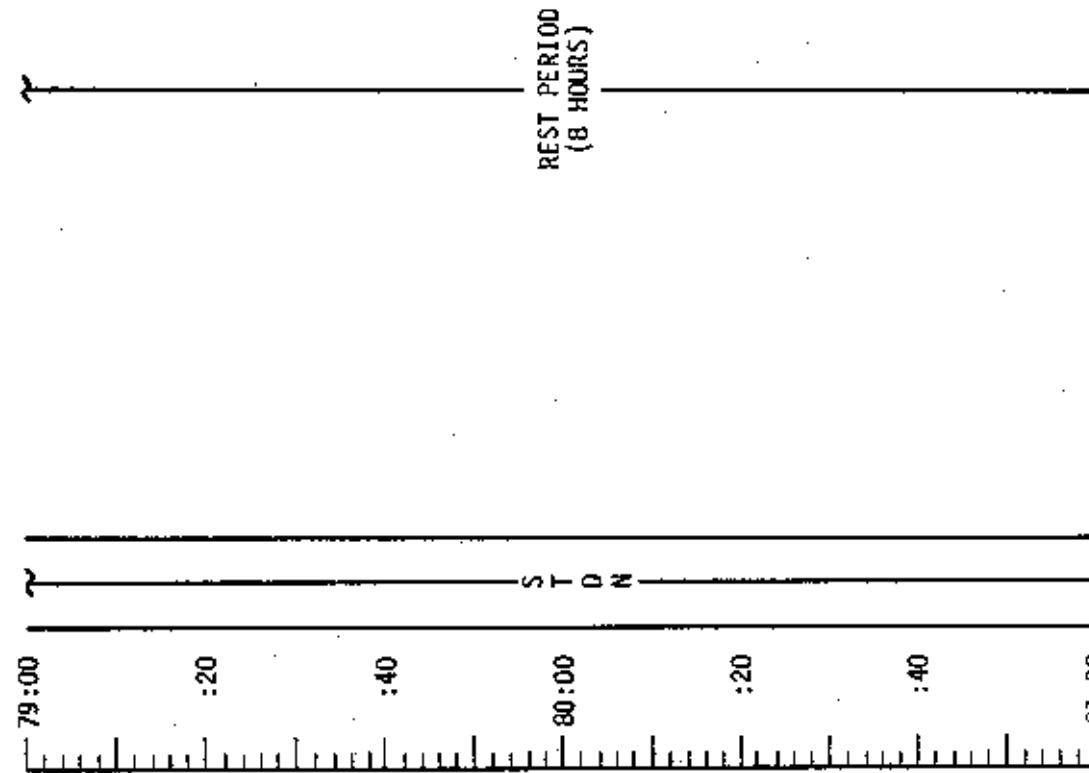
FLIGHT PLAN

MCC-H

0353 CST

NOTES

DAP LOAD STATUS
(21101)(1111)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	0900 - 0100	4/TLC	3-71

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

<u>CSM SYSTEMS CHECKLIST</u>	<u>POST-SLEEP CHECKLIST</u>	PAGE 5/1-29
------------------------------	-----------------------------	-------------

0553 CST

DAP LOAD STATUS
(21101)(1111)
EARTH DISTANCE
~202,616 KM

REPORT: LM/CM AP
IF $\Delta P > 2.4$ PSID:
 O_2 HEATERS 1&2 - AUTO
PRESSURIZE CSM TO 5.7 PSIA

UPDATE
GO/NO-GO FOR MCC-4

REPORT: LM/CM AP

IF $\Delta P > 2.4$ PSID:

O_2 HEATERS 1&2 - AUTO

PRESSURIZE CSM TO 5.7 PSIA

CSM G&C CHECKLIST

*EMS AV TEST & NULL BIAS CHECK PAGE 6/2-5 GET=82:00
*REPORT: BIAS

PTC
*PERFORM IF MCC-4
IS REQUIRED

FOV=3°
V_r=1.96 ips



EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	81:00 - 82:00	4/TLC	3-72

FLIGHT PLANNING BRANCH

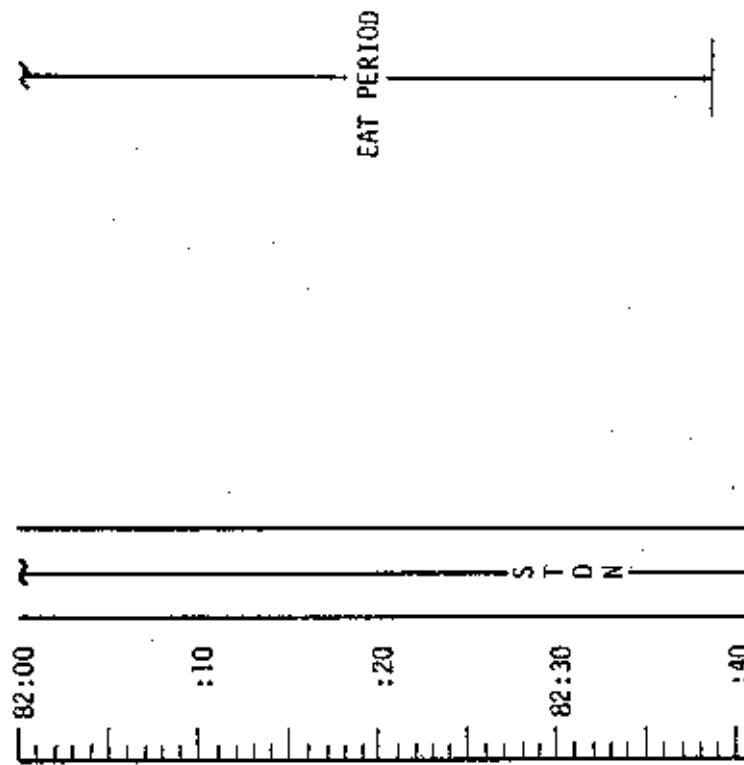
FLIGHT PLAN

MCC-4

0653 CST

NOTES

DAP LOAD STATUS
(21101)(1111)



*PERFORM IF MCC-4
IS REQUIRED

PERICYNTHION +2 HR
ABORT PAD TARGETED
FOR A FAST RETURN

CSM G&C CHECKLIST

*EXIT G&C PTC AT R 299 (P52) PAGE 6/8-3
HGA: P -30, Y 270 AUTO, NARROW
CMW/M PRESSURE EQUALIZATION (DECAL)
PRESSURE EQUAL VALVE - CLOSED
 O_2 HEATERS 1&2 - OFF (VERIFY)

CONFIGURE CAMERA FOR SIM DOOR JETT PHOTOS
CM5/DAC/75/CEX (f8,1/250,100) 24 fps (5% MAG)
MAG (BB) , MAG %

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	82:00 - 83:00	5/ TLC	3-73

MCC-4
BURN TABLE

SPS LIMITS	P OR Y RATES	DEVIATION	MANUAL START ACTION	OVERBURN SHUTDOWN CRITERIA	RCS TRIM GUIDELINES
TIGHT	10°/SEC TERMINATE	+ 10° TERMINATE	NO MANUAL STARTS NO RESTART	BT + 1 SEC	TRIM ONLY X-AXIS TO 0.2 FPS

BALL VLV FAILURE - START ON SUSPECT BANK
Shut down good bank to verify; reenable

APOLLO 17 FINAL (12/6)

10/23/72

5/TLC

3-74

FLIGHT PLAN

MCC-4

0753 CST

LION CANISTER CHANGE
(9 INTO A, STOW 7 IN B6)
CONFIGURE FOR URINE DUMP
H₂ PURGE LINE HTRS - ON

:10

P52 (OPTION 3)
(PTC ORIENT)
REPORT: GYRO TORQUING ANGLES
GDC ALIGN

:20

*P30 EXTERNAL AV
*V49 MNVR TO PAD BURN ATT
*IF SPS MIDCOURSE REQUIRED
* PRE-SPS BURN SIM PREP (CUE CARD)

83:30

*SXT STAR CHECK
*P40 SPS THRUSTING OR P41 RCS THRUSTING
H₂ & O₂ FUEL CELL PURGE
WASTE WATER DUMP TO PERCENTAGE SPECIFIED BY STDIN
SAMPLE BUSS'S (3) - STOW SAMPLES (3)
DUMP URINE FROM BUSS'S (3) - STOW
START NEW URINE COLLECTION PERIOD
H₂ PURGE LINE HTRS - OFF

:40

:50

LDI -5 HR

84:00

NOTES

*PERFORM IF
MCC-4 IS REQD

P52	IMU REALIGN
N71:	_____
N05:	_____
N93:	_____
X	_____
Y	_____
Z	_____
GET	_____

SIM EXP STATUS
(*00000)(31000)

BURN STATUS REPORT

	X	X	A1G
X	●	●	BT
X	●	●	V gx
			TRIM
X	X	X	R
X	X	X	P
X	X	X	Y
			V gy
			V gZ
			ΔV C
			OX
			FUEL
			UNBAL

TIG: 83:56
BT: NOW ZERO
AVT: NOW ZERO
ULAGE: NONE

MCC-4

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	83:00 - 84:00	5/TLC	3-75

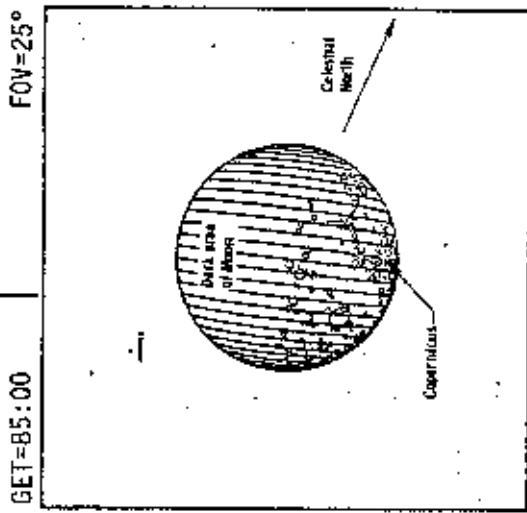
FLIGHT PLAN

NOTES

*PERFORM IF MCC-4
IS REQUIRED
SIM EXP STATUS
(*00000)
(31000)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	04:00 - 05:00	S/TLC	3-76

[CSM EXP/EVA CHECKLIST]
SIM DOOR JETTISON PAGE X/1-6 (TO STDW CUE)



GET=05:00

FOV=25°

*V66 SET CSM S.V. INTO LM S.V.
*REPORT: BURN STATUS
V49 MNVR TO SIM DOOR JETTISON ATTITUDE (84:15)
(138,249,000) HGA P -48, Y 238

CMD
DATA SYS - ON
DSE RECORD

:10

84:00

{2101
1111}

:20

S

T

D

N

84:30

84:30

84:30

84:30

:40

cb O₂ TK 100W HTRS (1 & 2) + OPEN

02 HEATERS 1 & 2 - AUTO

02 HEATER 3 - OFF

REPORT: LM/CM OP

IF AP <0.2 PSID,

IF AP >0.2 PSID,

PERFORM CM/LM PRESSURE EQUALIZATION (DECAL)

PRESS EQUAL VALVE - CLOSE

LM TUNNEL VENT VLV - LM PRESS

CHECK MISSION TIMER AGAINST GNC CLOCK

85:00

UPDATE
CUE FOR IR - OFF

UPLINK
CSM S.V. & V66
(PRELIMINARY)
LOI TGT LOAD
(PRELIMINARY)
DESIRED ORIENT (LOI)

FLIGHT PLAN

MCC-H

0953 CST

85:00
 {21101}
 {1111}
 UPDATE
 LOT MNVR PAD
 (PRELIMINARY)
 TEI 4 PAO
 FLIGHT PLAN
 :10

CSM G&C CHECKLIST

EMS & V TEST & NULL BIAS CHECK PAGE 6/2-5
 REPORT: BIAS
 CDR DON BIOMED HARNESS

NOTES

SIM EXP STATUS
 (*0000)
 (31001)

P52 IMU REALIGN	
N71:	X _____
N95:	Y _____
N93:	Z _____
GET	: _____ ; _____ :

LIMIT CYCLE - ON
 ATT DEADBAND - MIN
 RATE - LOW
 BMAG (3) - ATT 1/RATE, 2
 SC CONT - SCS
 P52 (OPTION 3)
 (PTC ORIENT)
 STARS _____
 SA _____
 TA _____

REPORT: GYRO TORQUING ANGLES
 P52 (OPTION 1)
 (LOI ORIENT)

SC CONT - CMC
 BMAG (3) - RATE 2
 GDC ALIGN

CHECK CDR BIOMED
 CMP DOFF BIOMED HARNESS

LOI REFSMMAT ATT
 R 351, P 128, Y 034

:50

86:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	85:00 - 86:00	5/TLG	3-77

FLIGHT PLAN

MCC-H

1053 CST

86:00
(211D)
(1111)

CONFIGURE CABIN FOR LUNAR ORBIT

:10

:20

86:30

:40

:50

87:00

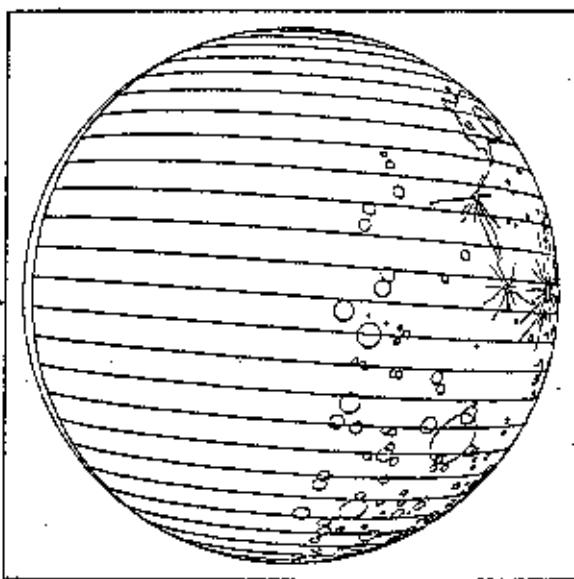
S T D N

NOTES

SIM EXP STATUS
(*0000)
(31001)

FOV=20°

GET=87:00



EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	86:00 - 87:00	5/TLG	3-78

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES

MCC-H 1153 CST

E {
 2101
 1111}

:10

EAT PERIOD

:20

CMC MODE - FREE
UV COVER-OPEN

UW COVER-CLOSE
CMC MODE - AUTO

P52 (OPTION 3)
(LOI ORIENT)

REPORT: GYRO TORQUING ANGLES

GDC ALIGN

CSM SYSTEMS CHECKLIST

UPDATE
LOT MNVR PAD
MAP UPDATE REV 1

:40

(88:20)
UPLINK
CSM S.V. & V66
LOI TGT LOAD

:50

88:00

PRE-SPS BURN SIM PREP (CUE CARD)

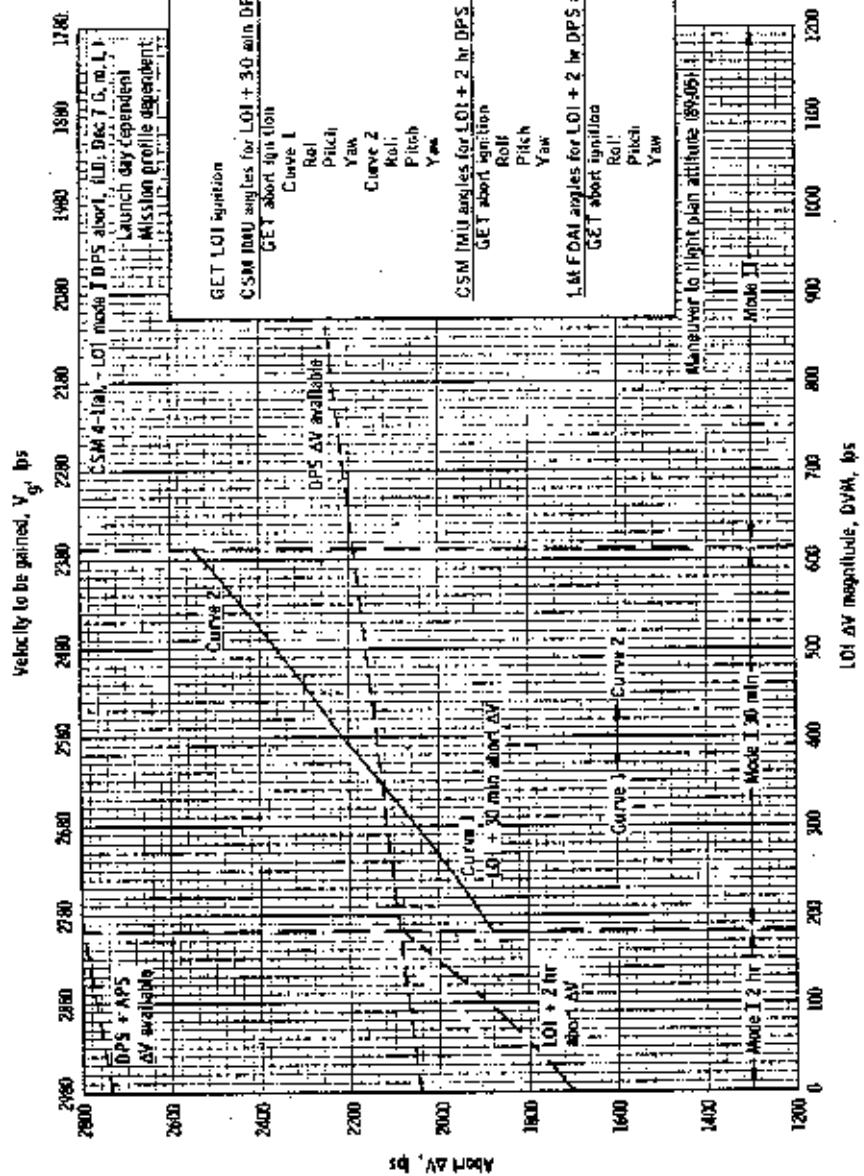
SIM EXP STATUS (*0000) (31001)	P52 IMU REALIGN
N71:	X _____
N05:	Y _____
N93:	Z _____
	GET _____

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	87:00 - 88:00	5/TLC	3-79

FLIGHT DIRECTOR
RDA NORM

P30 MANEUVER

SET STARS	L O I				PURPOSE	
	S	P	S/G &	N	PROP/GUID	
+					WT	N47
R ALIGN	0	0			PTRIM	M48
P ALIGN	0	0			Y TRIM	
Y ALIGN	+ 0	0			HRS	GETI
	+ 0	0			MIN	N33
	+ 0	0			SEC	
ULAGE					AV X	N81
					AV Y	
					AV Z	
	X X	X X			R (000)	
	X X	X X			P (000)	
	X X	X X			Y (000)	
					H A	N44
					H P	
HORIZON/WINDOW	X X	X X			AVT	
	X				BT	
					AVC	
	X X	X X			SXTS	
					SFT	
					0	TRN
	X X	X X			BSS	
	X X				SPA	
	X X	X X			SXP	



ପ୍ରକାଶକ ମନ୍ତ୍ରୀ

LOI
BURN TABLE

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TAKEOVER & COMPLETE	+10° TAKEOVER & COMPLETE	BT + 10 SEC	DO NOT TRIM

BALL VLV FAILURE - START ON GOOD BANK (LM AVAIL)

Shut down good bank 10 sec before nominal C/O.

EARLY C/O - RESTART IF NO LIMITS EXCEEDED, G&N IS GO AND VGO>50

CSM 4-1(6).-1.01 mode TPS abort. (L0: See 7 G.m.t.)

Launch day dependent
Mission profile dependent
9/26/72 Final

Burntime	ΔV/M	Mode	SPS lines	Procedure
0:00 - 0:28	0 ~ 183	I	TIGHT	DPS at 2 hr (RTCC)
0:28 - 0:53	183 - 348	I	TIGHT	DPS at 30 min (perline hard)
0:53 - 1:31	348 - 613	I	LOOSE	DPS at 30 min to depletion I APS at 2 1/2 hr (RTCC); loss of control, DPS followed immediately by APS (switchhard)
1:31 - 2:03	613 - 833	II	LOOSE	DPS at 2 hr + DPS to depletion at perline + APS at 2 hr after DPS depletion (RTCC)
2:03 - 2:54	833 - 1200	II	LOOSE	DPS at 2 hr + DPS at perline (RTCC)
2:54 - 3:40	1200 - 1543	III	LOOSE	DPS at perline (RTCC)
3:40 - 4:30	1543 - 1930	III	TIGHT	DPS at perline (RTCC)
4:30 - Cutoff	1930 - 2930	III	TIGHT	DPS to depletion at perline + APS at 2 hr after DPS depletion (RTCC)

IGN >3 MIN 40 SEC LATE
SHUTDOWN TIMES
0 TO 1 MIN 20 SEC - 10 SEC
1 MIN 20 SEC TO 2 MIN - 5 SEC
2 MIN TO 3 MIN 40 SEC - 0 SEC

THE PU VALVE SHOULD BE USED TO MAINTAIN
THE INDICATED UNBALANCE TO WITHIN +50 LB
OF THE STABILIZED READING (TIG +25 SEC)
UNTIL CROSSOVER. AFTER CROSSOVER THE VALVE
SHOULD BE USED TO CONTROL THE GREEN BAND
(0+100 LB). THE APPROXIMATE TIME OF CROSS-
OVER IS 4 MIN 20 SEC INTO THE LOI BURN

FLIGHT PLAN

MCC-H

88:00
 { 21101 }
 { 1111 }

P30 EXTERNAL ΔV

V49 MNVR TO PAD BURN ATTITUDE (88:20)

OMNI C

MAP UPDATE REV

AOS WITHOUT BURN : $\angle 4^\circ$: $\alpha 2^\circ$: $\gamma 5^\circ$
 AOS WITH BURN : $\angle 4^\circ$: $\alpha 2^\circ$: $\gamma 7^\circ$

:20

SXT STAR CHECK

S

T

N

88:30
 (P40)
 (0.5°DB)

RECORD VG IMU DATA

UPDATE

GO/NO-GO FOR LOI

:40

89:00

:50

1:00

1:10

1:20

1:30

1:40

1:50

2:00

2:10

2:20

2:30

2:40

2:50

NOTES

SIM EXP STATUS
 (*00000)
 (31000)

BURN STATUS REPORT			
X	X	ATIG	
X	X	BT	
		V gx	
		TRIM	
X	X	R	
X	X	P	
		V gx	
X	X	Y	
X	X	ΔV Y	
X	X	ΔV Z	
X	X	ΔV C	
X	X	OX	
X	X	FUEL	
X	X	UNBAL	

ΔV M —

VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

TIG: 88:55:37.5
 BT: 6 MIN 35.4 SEC
 AVT: 29.79.9 FPS
 ULLAGE: NONE
 ORBIT: 170.8x51.4 NM

LOI

PREDICTED LOI SINGLE
 BANK BURN TIME:
 6 MIN 50 SEC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	88:00 - 89:00	S/TEC	3-83

CCSM FLIGHT PLAN

[SCIENTIFIC VISUALS]

51M [AP Statistics]

P52	THE READING
N71:	—
W957:	—
W931:	—
X	—
Y	—
Z	—
GET	—

CWE Model-TRLE

MEETINGS

P52 (OPT 1001 1)
[LPC 5111E DRAFT]

P20: CHC 400f - Auto

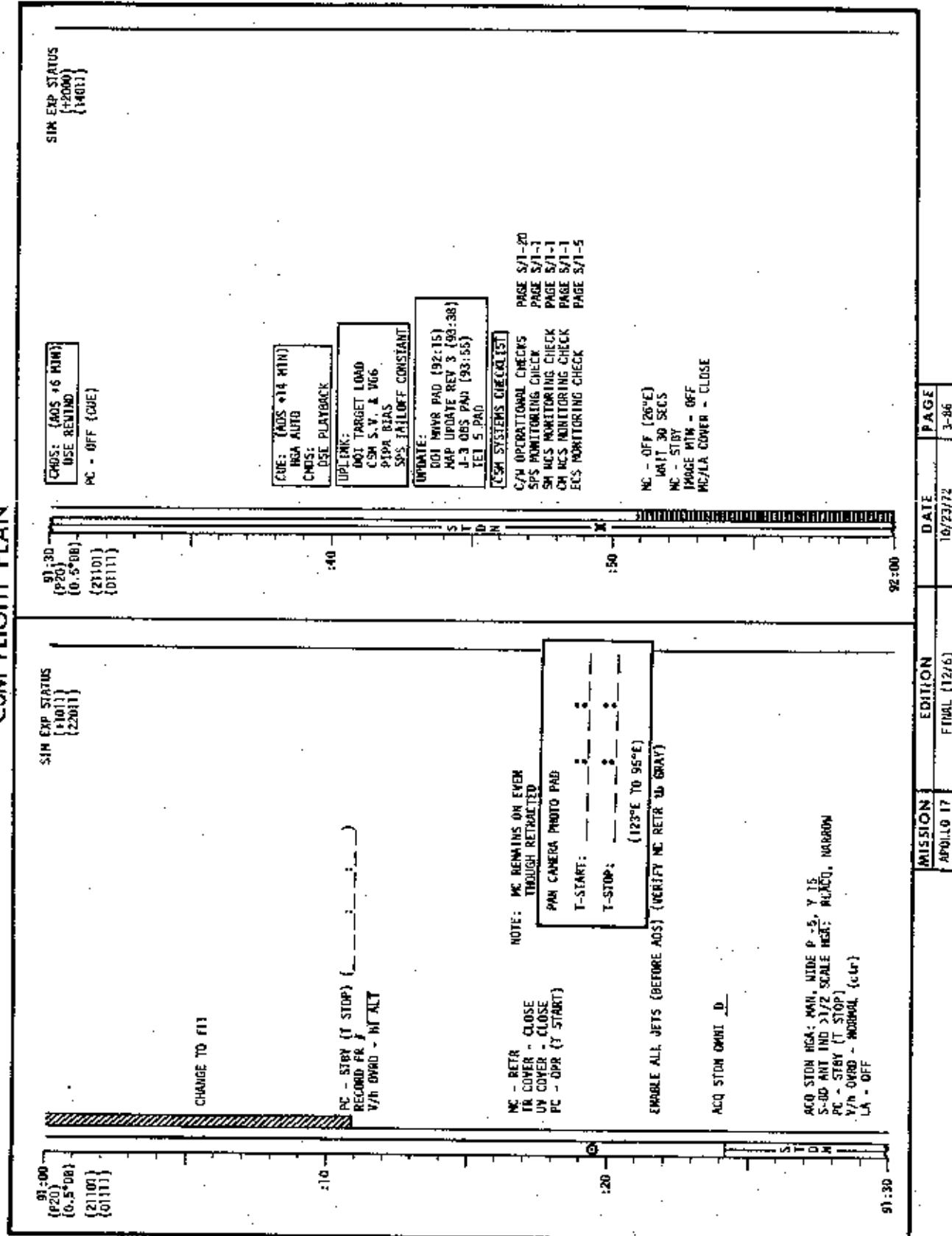
CONFIGURE CAMERA: {OPTIONAL SCIENCE}
CMD/EL/SD/CEK-1W20(FZ.8, 1/250, mm) 68 FL

REFERENCES 50 55-6

לעגנאלן דער גראָט
V/H Gwand - לְגַנְאָלָן

MISSION EDITION DATE PAGE
APMILU 17 FINAL (12/6) 19/23/72 1-5

CSM FLIGHT PLAN



CSM FLIGHT PLAN

92:00 [2101] 000 [2101]

SIN EXP STATUS
(+0000)
(0101)

P52 IMU REALIGN	
N/J:	—
NOS:	—
N93:	—
X	—
Y	—
Z	—
GET	—

P52 (OPTION 3)
(0.6 SITE ORIENT)

REPORT: GYRO TORQUING
ANGLES

GDC ALIGN

PRE-SPS BURN SIN PREP (CUE CARD)

:10

P30; VERIFY BOI TIG AND AN'S

P40

STIN RECORD:
NG IMU DATA

P00
V49 HOUR 10 DD1 PAD BURN ATT (92:31)
ACQ STIN OMNI C

:20

92:30

SET STARS	P30 MANEUVER				PURPOSE
	D	O	I	—	
	S	P	S	G & N	PDP/GUID
R ALIGN	—	—	0	0	PTRIM WAB
P ALIGN	—	—	0	0	YTRIM
Y ALIGN	—	—	0	0	GETI
WILLAGE	—	—	0	0	M3N N33
	—	—	0	0	SEC
	—	—	0	0	NA
	—	—	0	0	M61
	—	—	0	0	NW ₁
	—	—	0	0	NW ₂
	—	—	0	0	F (900)
	—	—	0	0	P (225)
	—	—	0	0	V (300)
	—	—	0	0	H ₁
	—	—	0	0	H ₂
	—	—	0	0	P
	—	—	0	0	A/C
	—	—	0	0	SAT'S
	—	—	0	0	SFT
	—	—	0	0	TRN
	—	—	0	0	SSS
	—	—	0	0	SPA
	—	—	0	0	SXP
	—	—	0	0	LAT
	—	—	0	0	LONG
	—	—	0	0	RTG/G FMS
	—	—	0	0	VID
	—	—	0	0	GET 0.056

MISSION	EDITION	DATE	PAGE
ANULLO 17	FINAL (1/2/6)	10/23/72	3-37

CSM FLIGHT PLAN

92:30
[2110]
[1111]

SIM EXP STATUS
[19000]
[3161]

CROSS:
DSE REINITD

S

N

SAT STAR CHECK

LOAD ENS. WITH AVT

UPDATE:
GO/HO GO FOR DO

UNDS:
DSE RECORD

P40 (TRIM)
(0.5° DB)

VERIFY DSE TAPE POSITION (4 BR/FWD/FRW/4MM RESET)

NOTE: DSE VOICE RECORDED
THIS BACKSIDE WILL
NOT BE SAMPLED

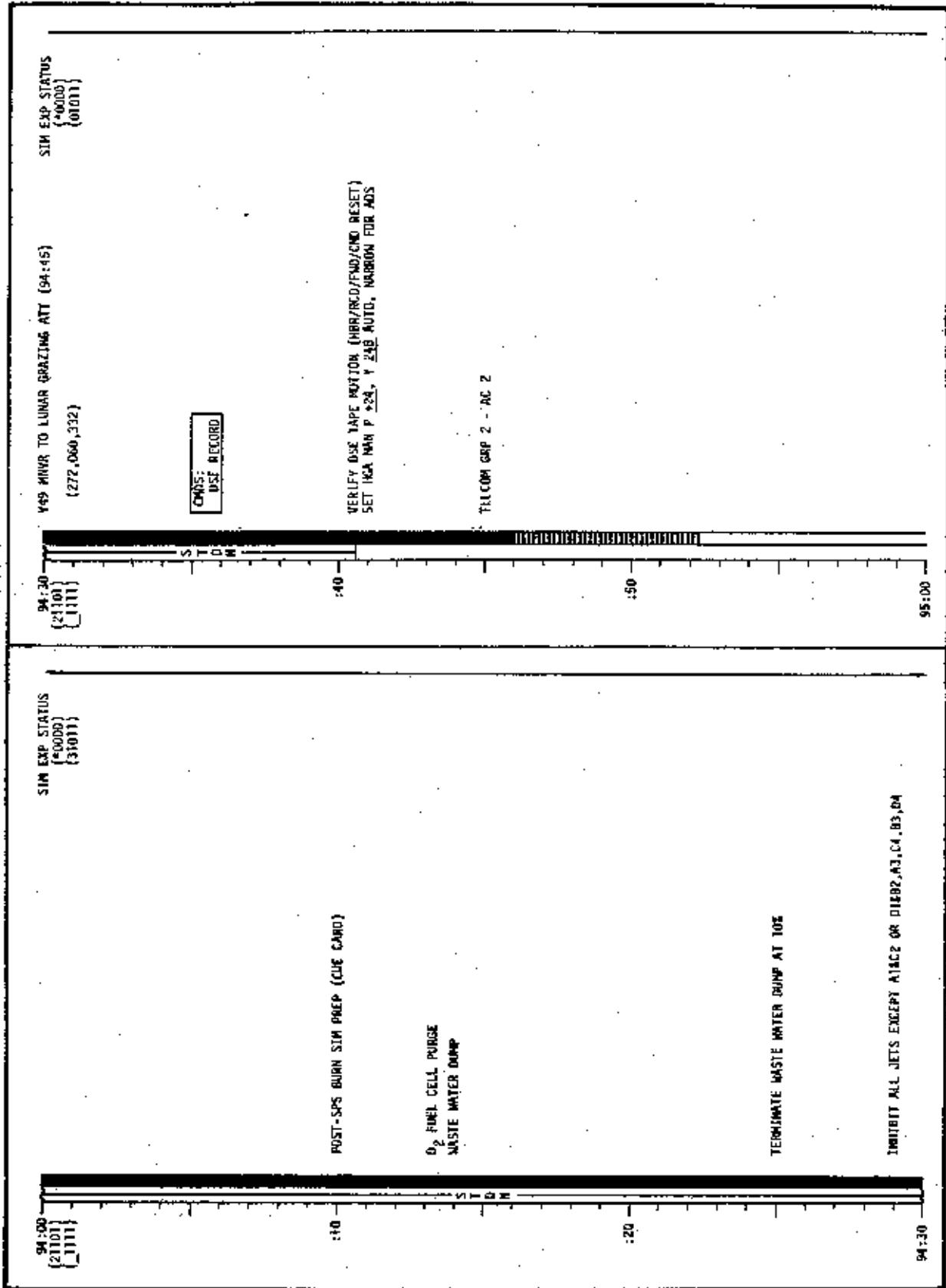
:50

93:00

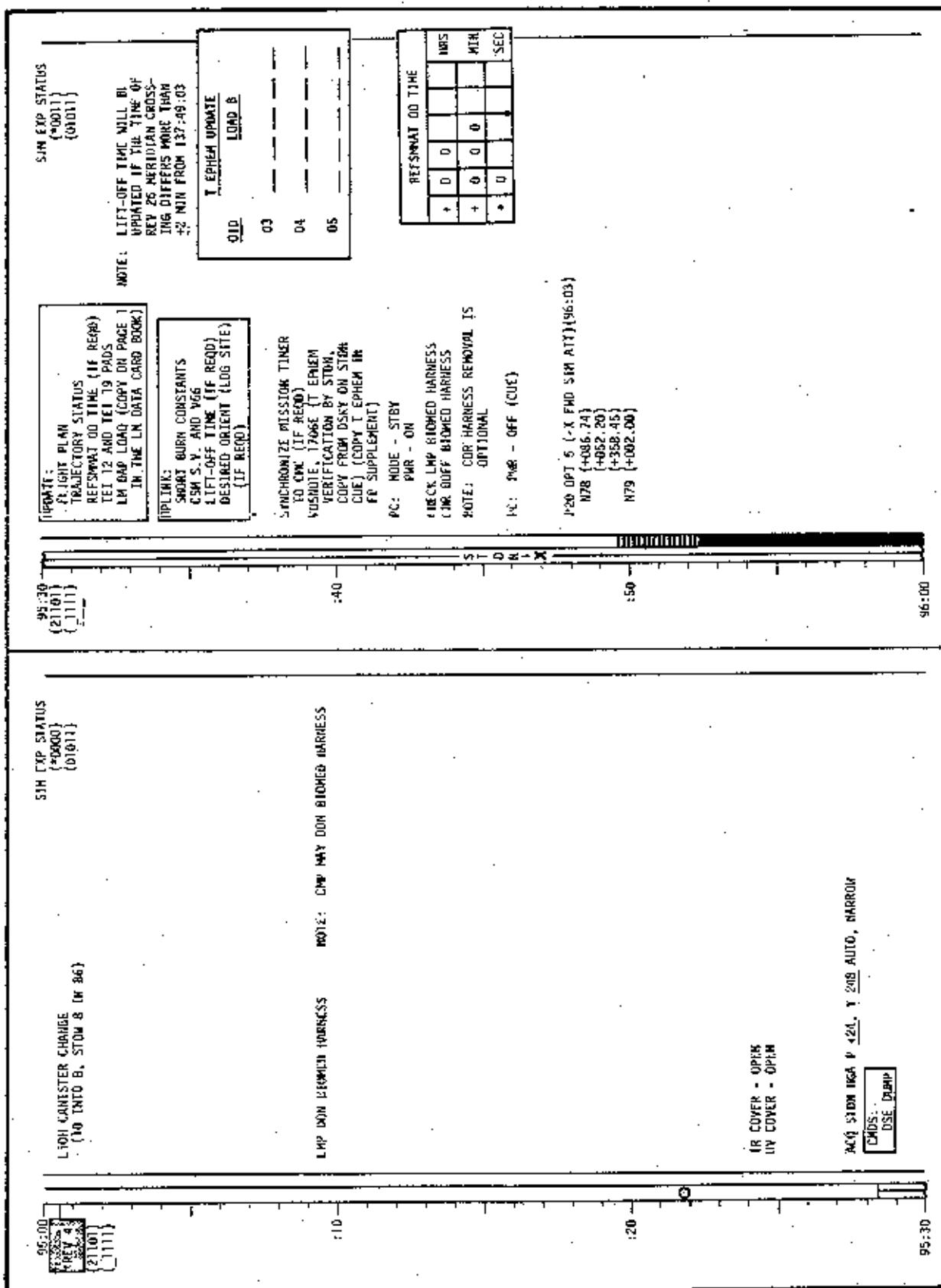
MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-88

C : 5)

CSM FLIGHT PLAN



CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/16)	10/22/72	3-42

95:00

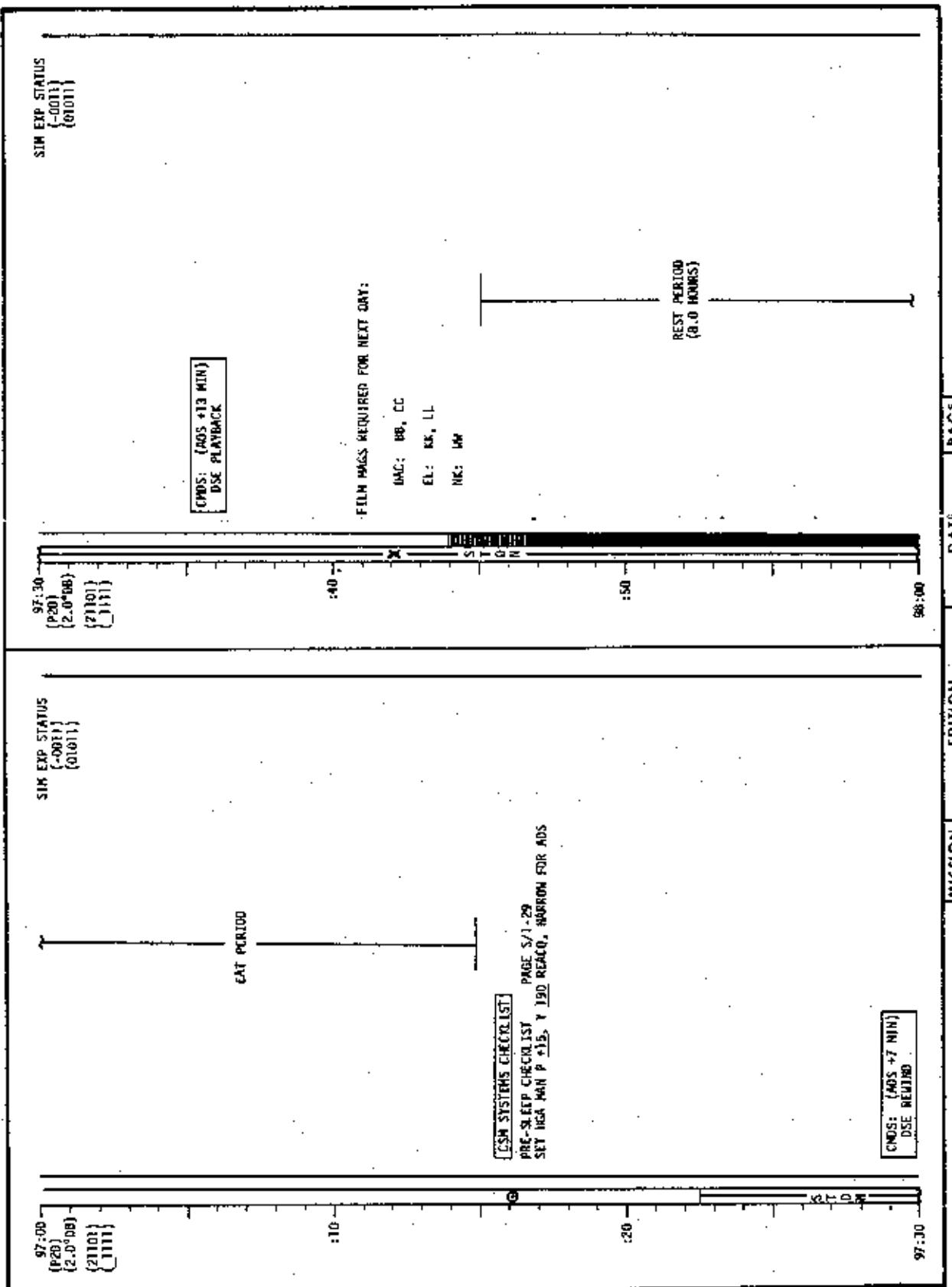
95:30

CSM FLIGHT PLAN

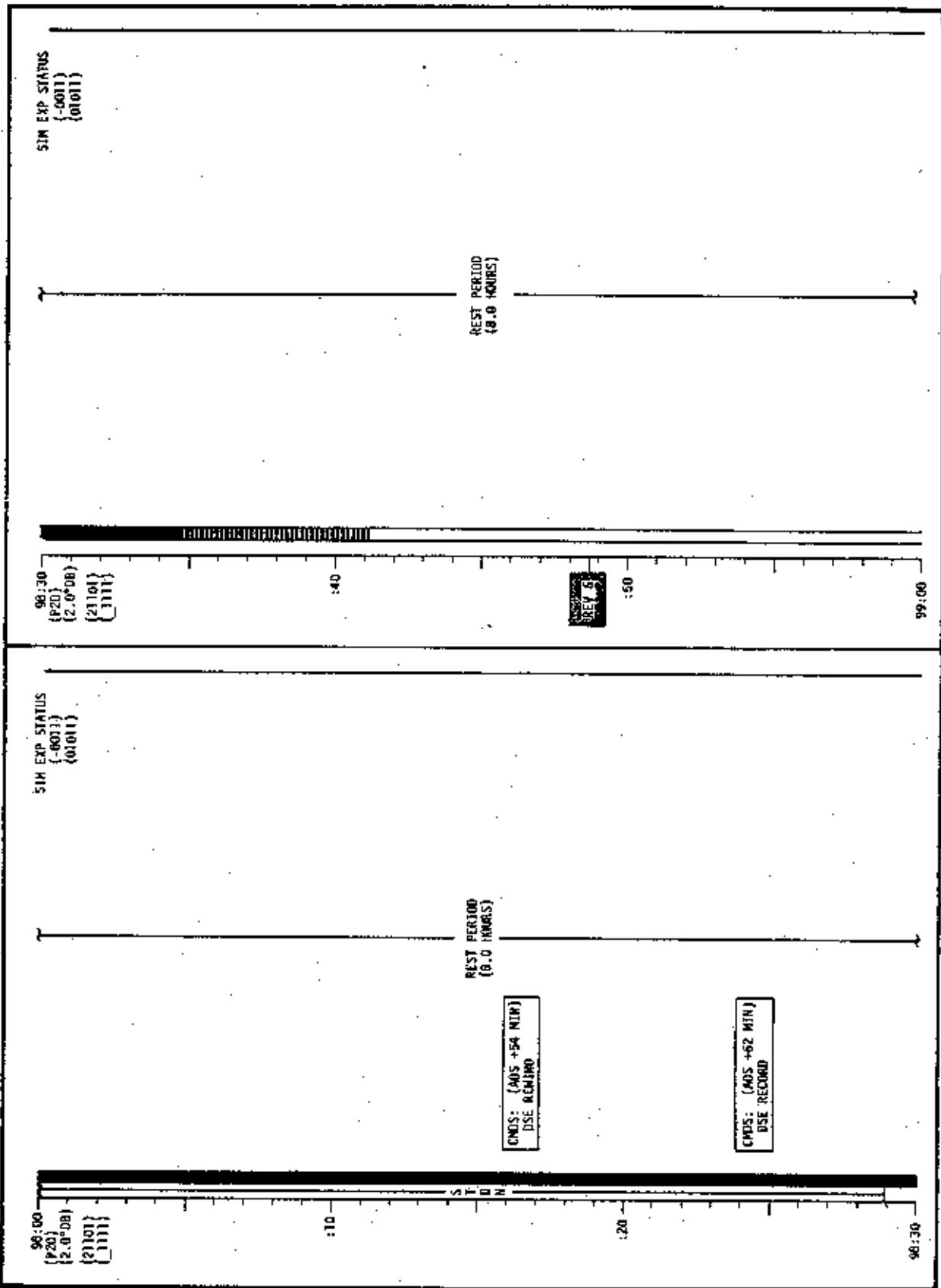
The figure displays a detailed timeline of flight control events across four distinct timelines:

- SIN EXP STATUS:** A vertical timeline on the left showing status changes from -0011 to 01011. It includes a box labeled "C051: [A005 +64 MIN] USE RECORD".
- EAT PERIOD:** A horizontal timeline at the top showing a sequence of events from 96:38 to 97:00. It includes a box labeled "KEY E".
- P502 (WCU REALIGN):** A vertical timeline in the middle-left showing a sequence of events from 96:40 to 97:00. It includes a box labeled "GET".
- C-Memory Dump:** A vertical timeline on the far left showing a sequence of events from 96:40 to 97:00.
- REPORT: GYRO THERMOLOG RATES:** A vertical timeline in the middle-right showing a sequence of events from 96:40 to 97:00.
- P502 (OPTION 1) (IF REQD)**: A box containing:
 - P502 (OPTION 3)
(Ldg Site Orient)
 - RPT: GYRO THERMOLOG RATES
 - P20: CPC MODE = AUTO
 - GDC ALIGN
 - LW TUNNEL VENT VALVE = LATCH UP
- UPLINE: JET - ON MONITOR LOADS**: A box containing:
 - C-Memory Dump
 - UPLINE: JET - ON MONITOR LOADS

CSM FLIGHT PLAN

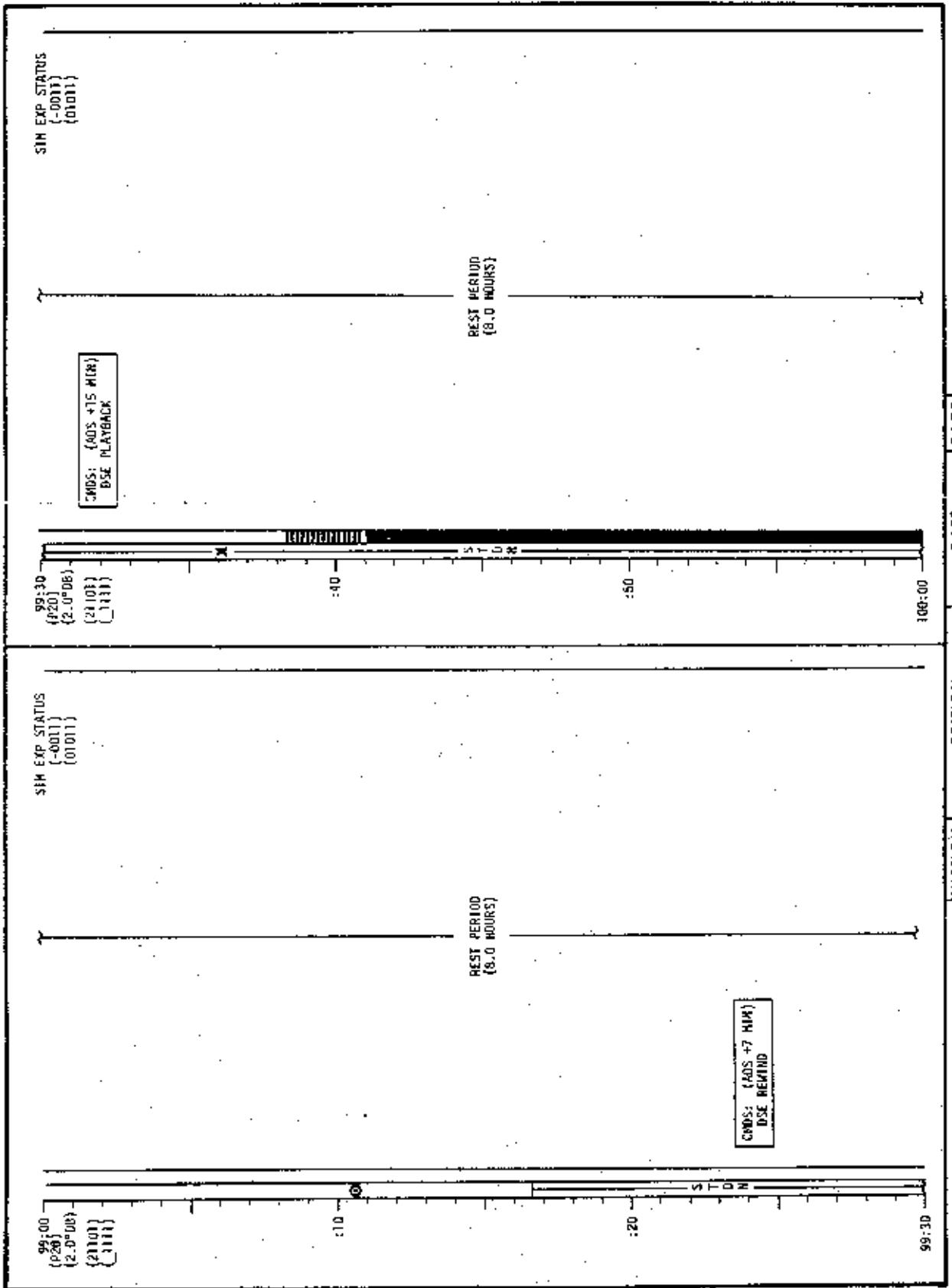


CSM FLIGHT PLAN



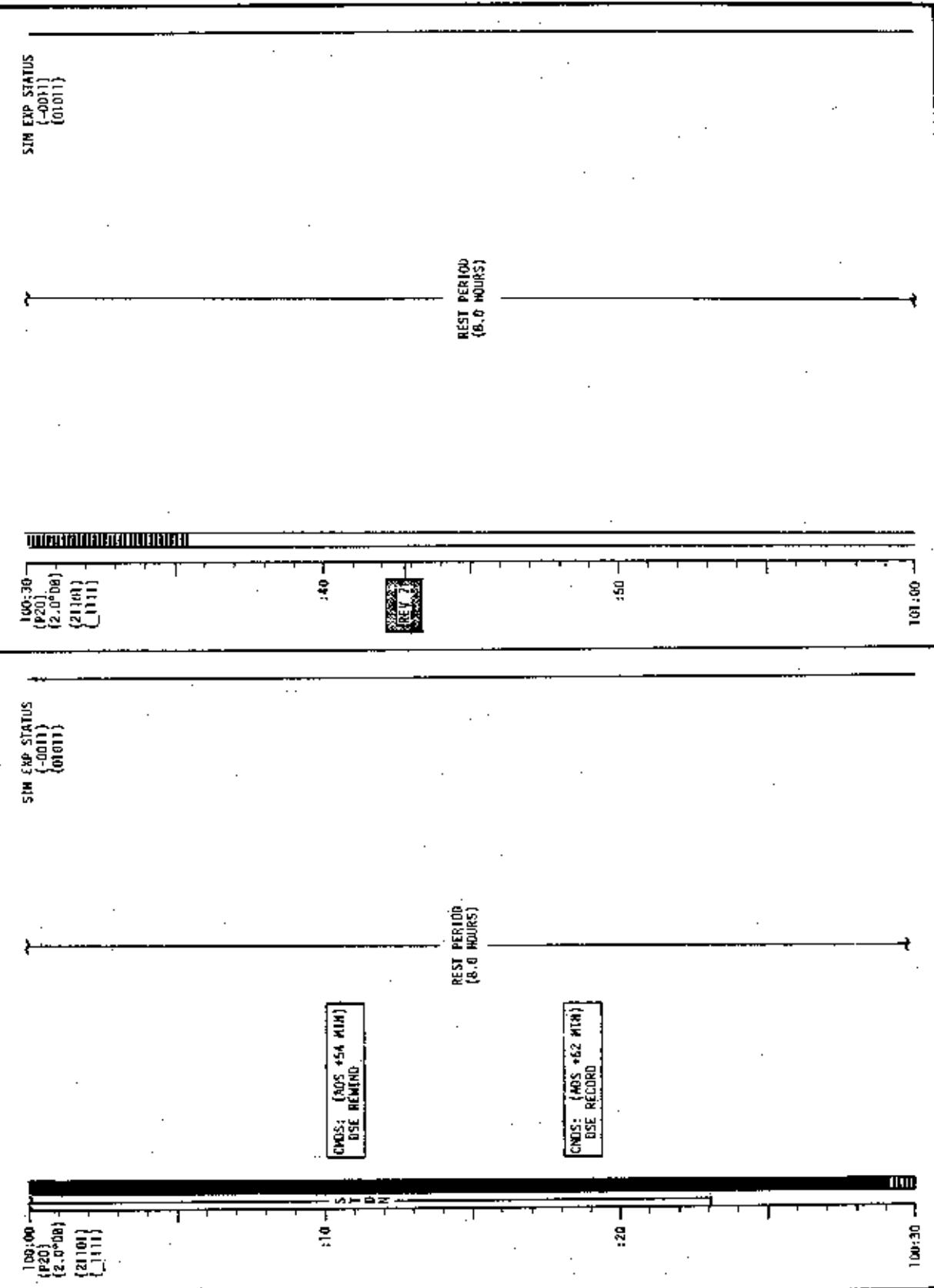
MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-95

CSM FLIGHT PLAN

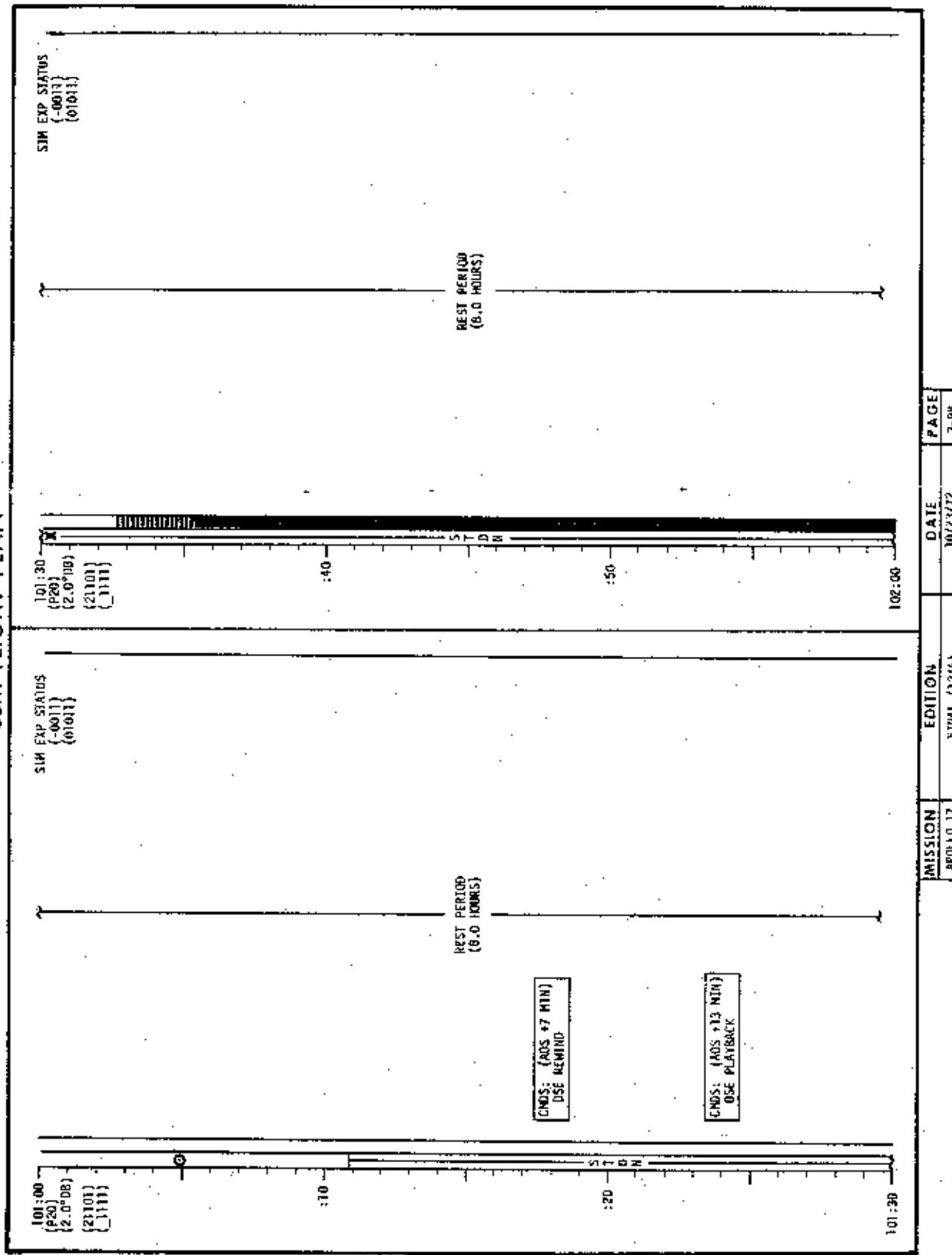


MISSION	EDITION	DATE	PAGE
Apollo 17	FINAL (12/6)	10/23/72	3-96

CSM FLIGHT PLAN

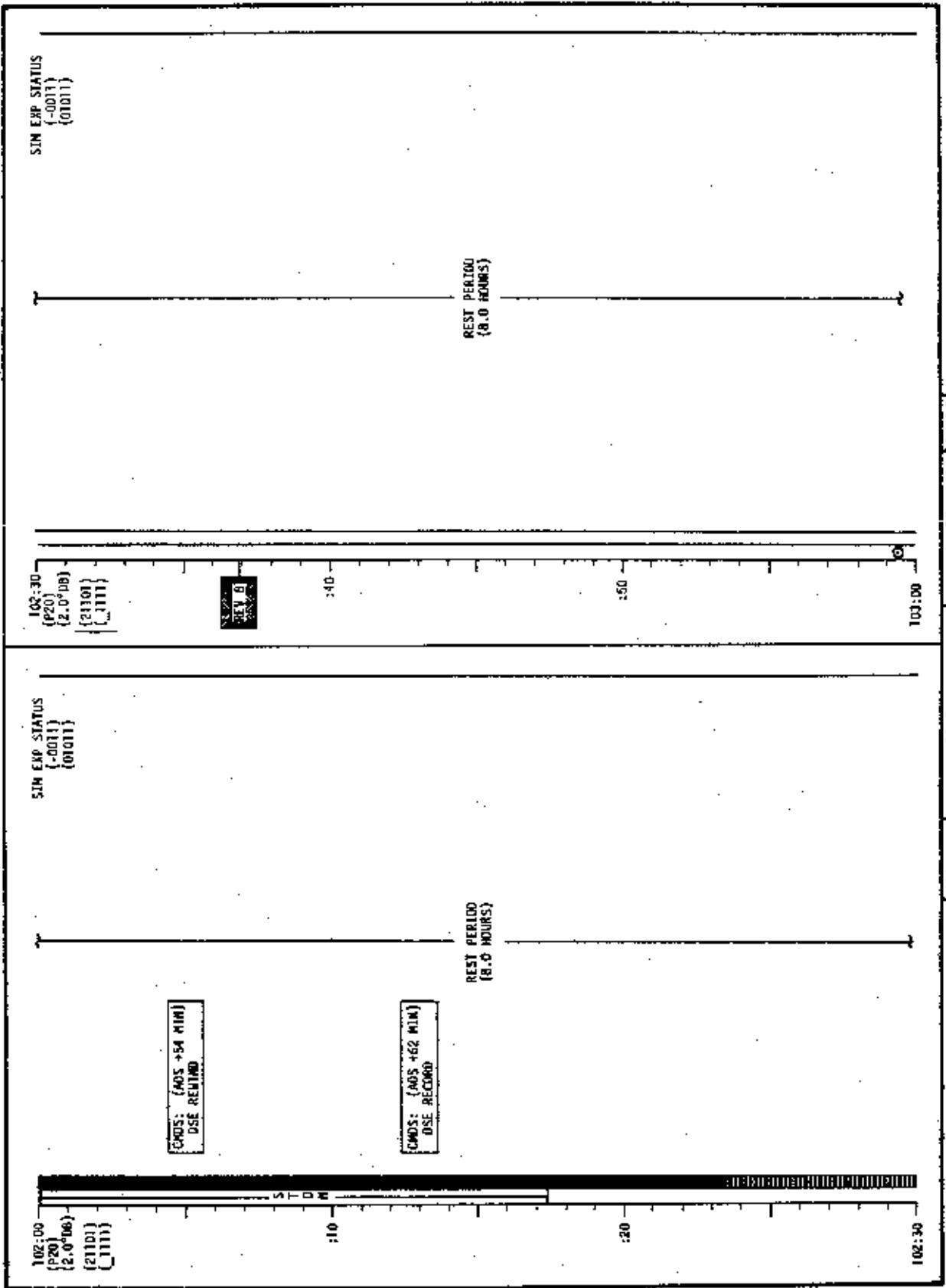


CSM FLIGHT PLAN

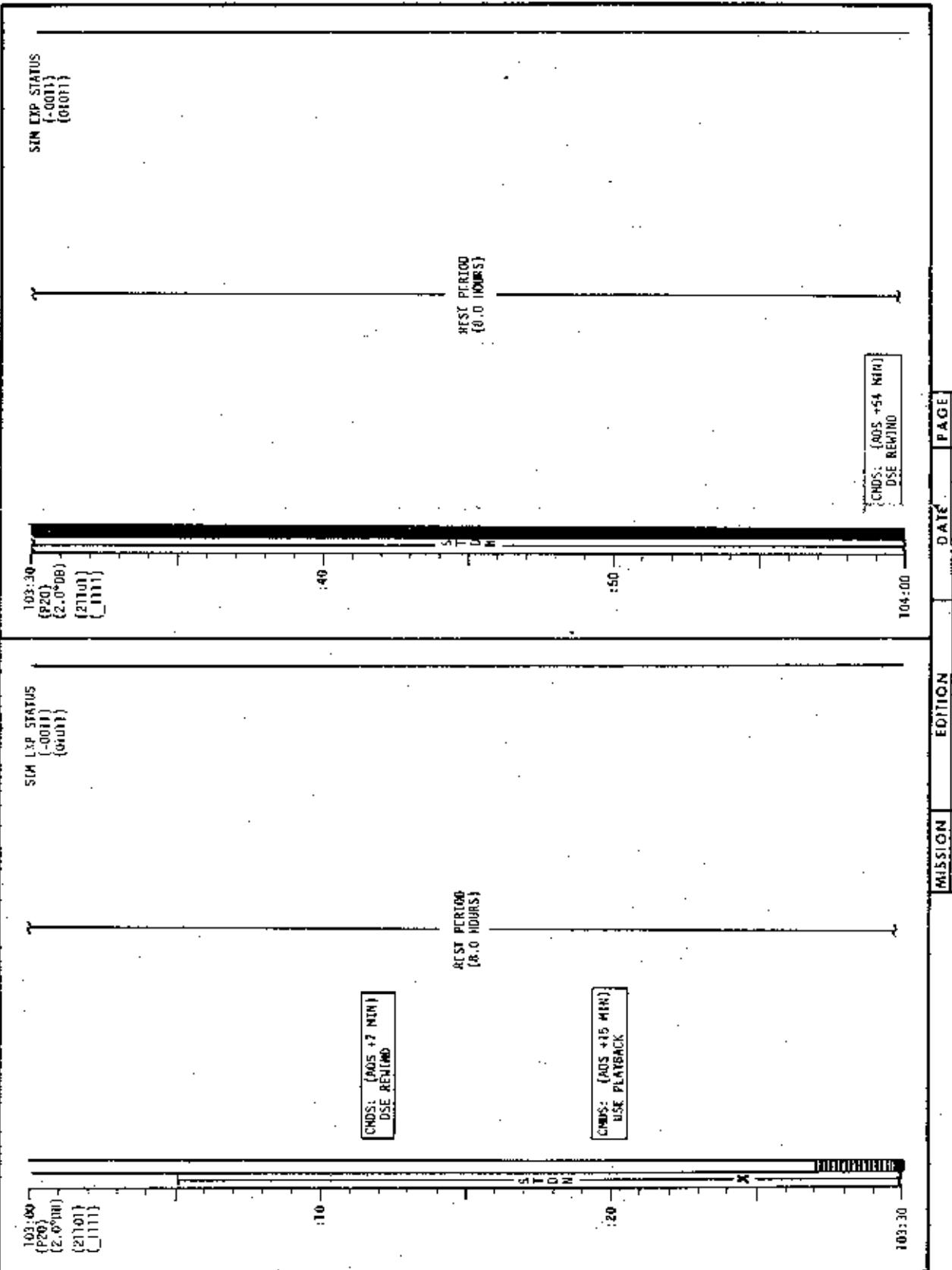


MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/24/72	3-98

CSM FLIGHT PLAN

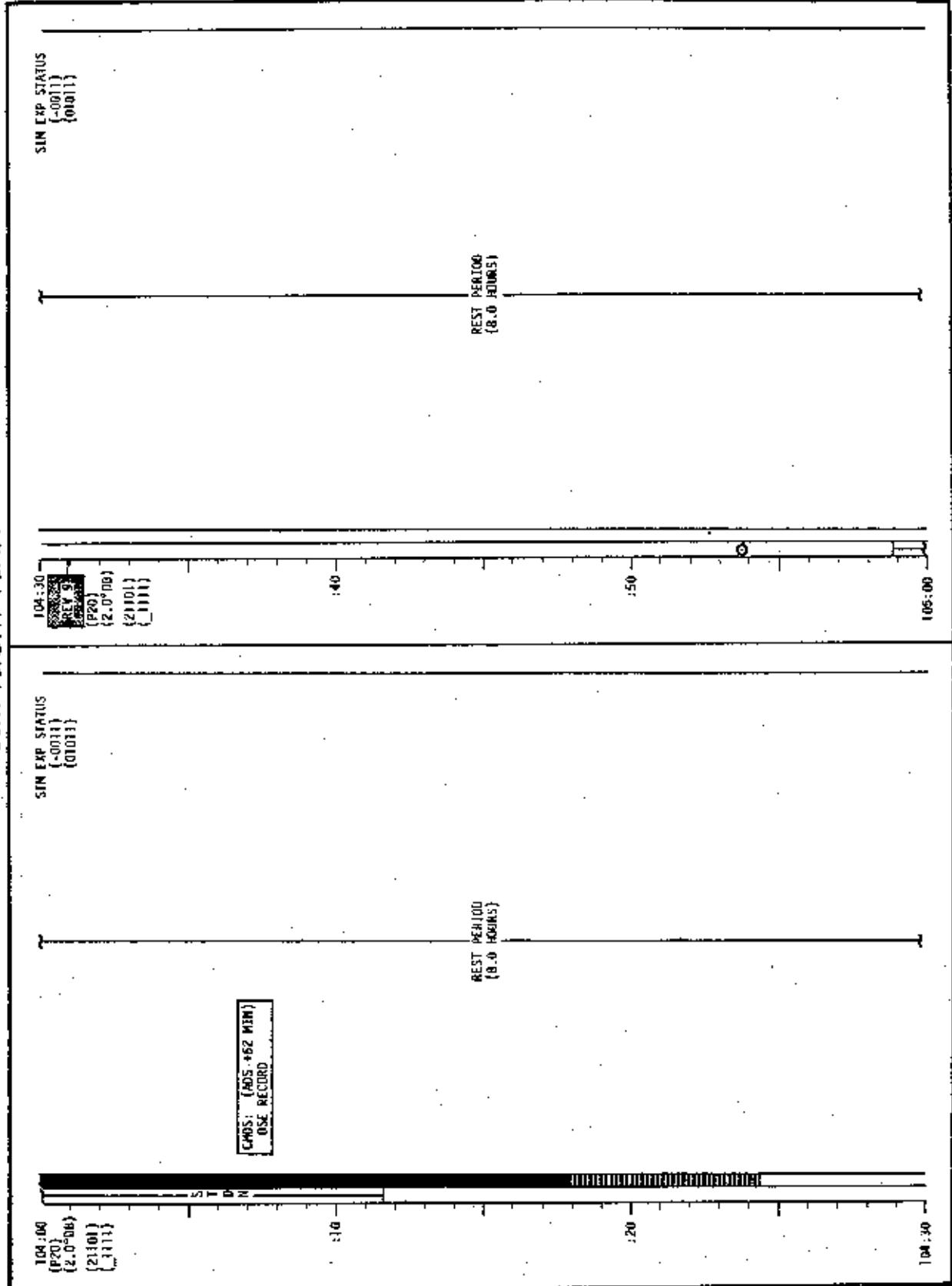


CSM FLIGHT PLAN

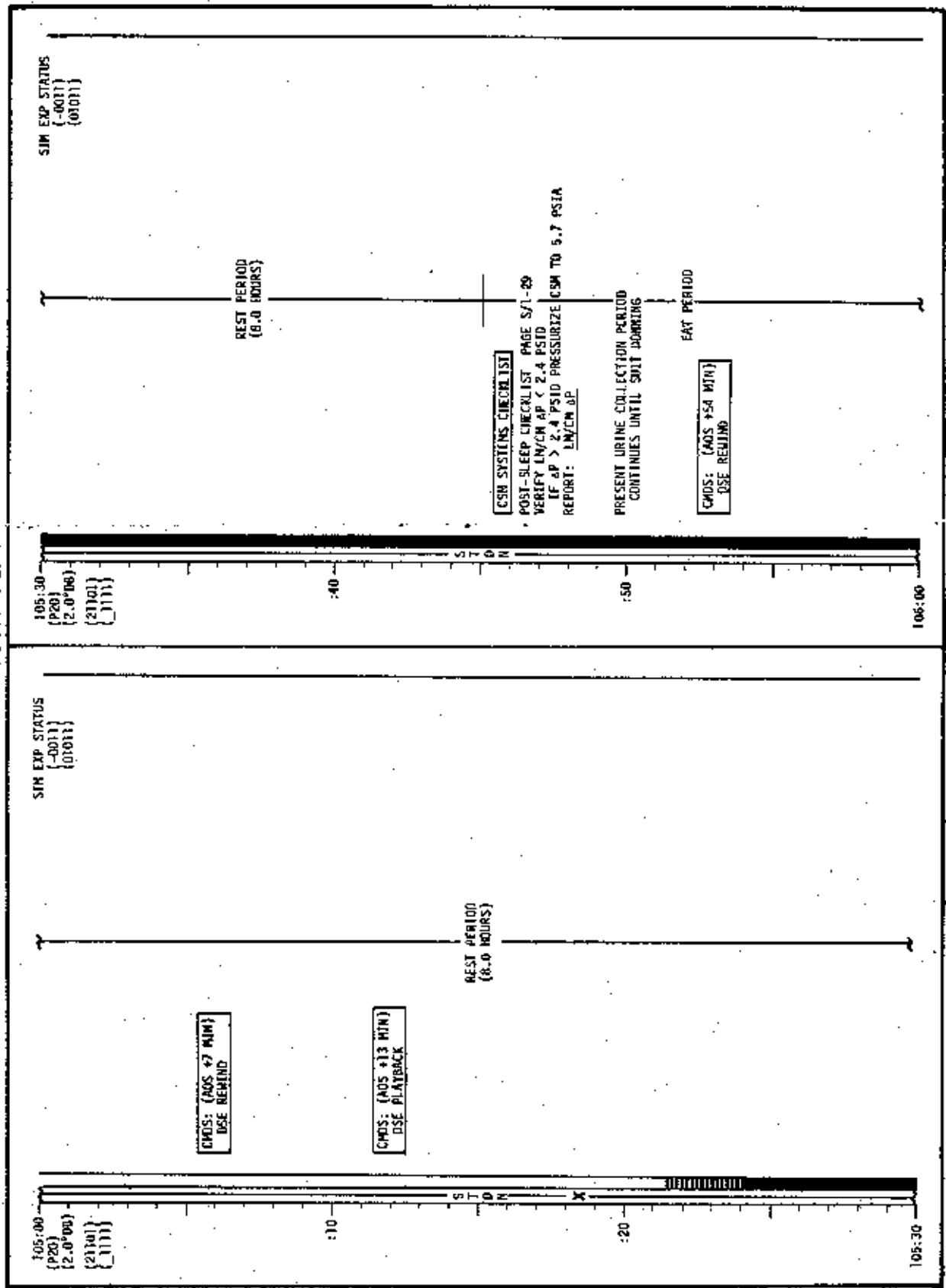


MISSION	EDITION	DATE	PAGE
Apollo 17	FINAL (12/6)	10/23/72	3-100

CSM FLIGHT PLAN



CSM FLIGHT PLAN



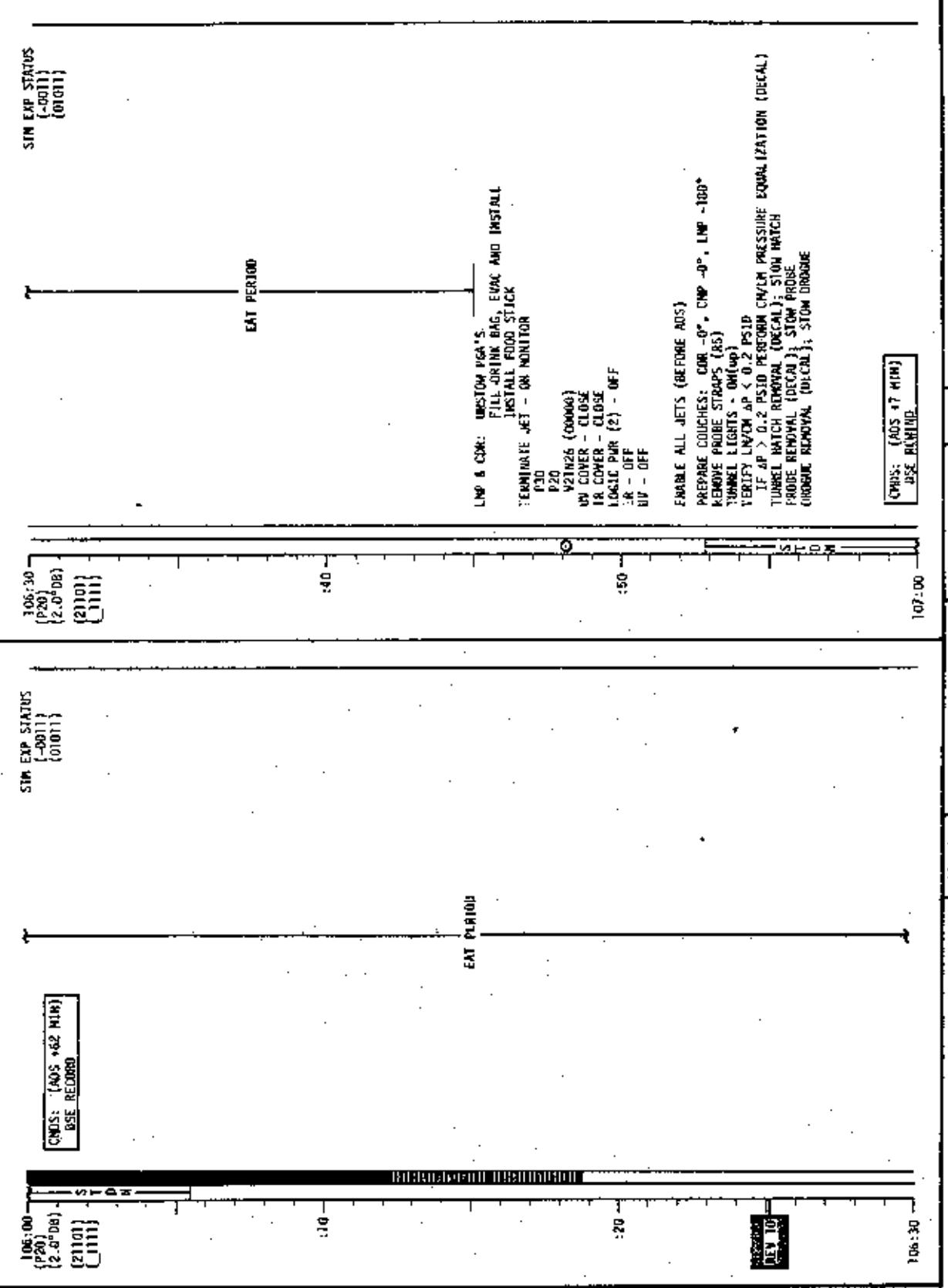
CSM SYSTEMS CHECKLIST

POST-SLEEP LINELIST PAGE S-1-29
VERIFY LUNCH AP < 2.4 PSID
IF AP > 2.4 PSID PRESSURIZE CSM TO 5.7 PSIA
REPORT: EN/EM OP

CMS: (ADS +54 MIN)
DSE REWIND

MISSION	EDITION	DATE	PAGE
April 10 17	FINAL (12/6)	10/23/72	3-102

CSM FLIGHT PLAN



CSM FLIGHT PLAN

REPORT: DOCKING TUNNEL INCLIX ANGLE
URL INK: CSM S. U. AND YES
UPDATE: TRAJECTORY STATUS
FLIGHT PLAN

107:00 [P20] (2.6' DB) [2110] (1111)

SIM EXP STATUS
(-8000)
(01000)

LMP DON LEG AND PMA WITHOUT HELMET AND GLOVES

CMS: (ADS +15 MIN)
DSE PLAINBACK

:10 X STOP

:20

COR DON BIOMED HARNESS, LEG AND PMA WITHOUT HELMET AND GLOVES

107:30

MISSION	EDITION	DATE	PAGE
Apollo 17	FINAL (12/6)	10/23/72	3-104

APOLLO 17

10/23/72

3-106

FINAL (12/6)

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LM FLIGHT PLAN

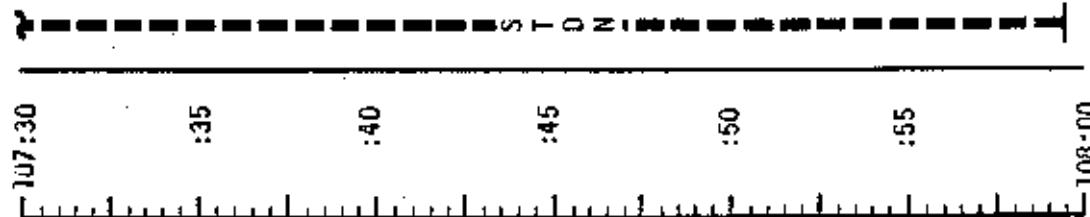
CDR

NOTES

LMP

0823 CST

MCC-H



LM ACTIVATION CHECKLIST PAGE 3-1

-2:30

IVT TO LM
OPEN HATCH
VERIFY DOCKING ANGLE

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	107:30 - 108:00	6/10	3-106

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

107:30
 (P&P)
 (2.0 DEG)
 (21101)
 (3311)

SIM EXP STATUS
 (0000)
 (01000)

107:30 (RESET LUNAR SURFACE FLAG)
 P&P
 PS2 (OPTION 3)
 (LDS SITE ORIENT)
 REPORT: GYRO TORQUING ANGLES
 CSM ALARM
 V49 MOVE TO UNDOCK ATT (107:48)
 (000,105,000)
 HGA P -30, Y 202
 :40
 CDS: (ADS +58 MIN)
 DSE READING
 P&A INTERCONNECTS - AB TO TSB
 CHP DSN BIRED HARNESS, P&A, WITHOUT
 HELMET AND GLOVES
 :50

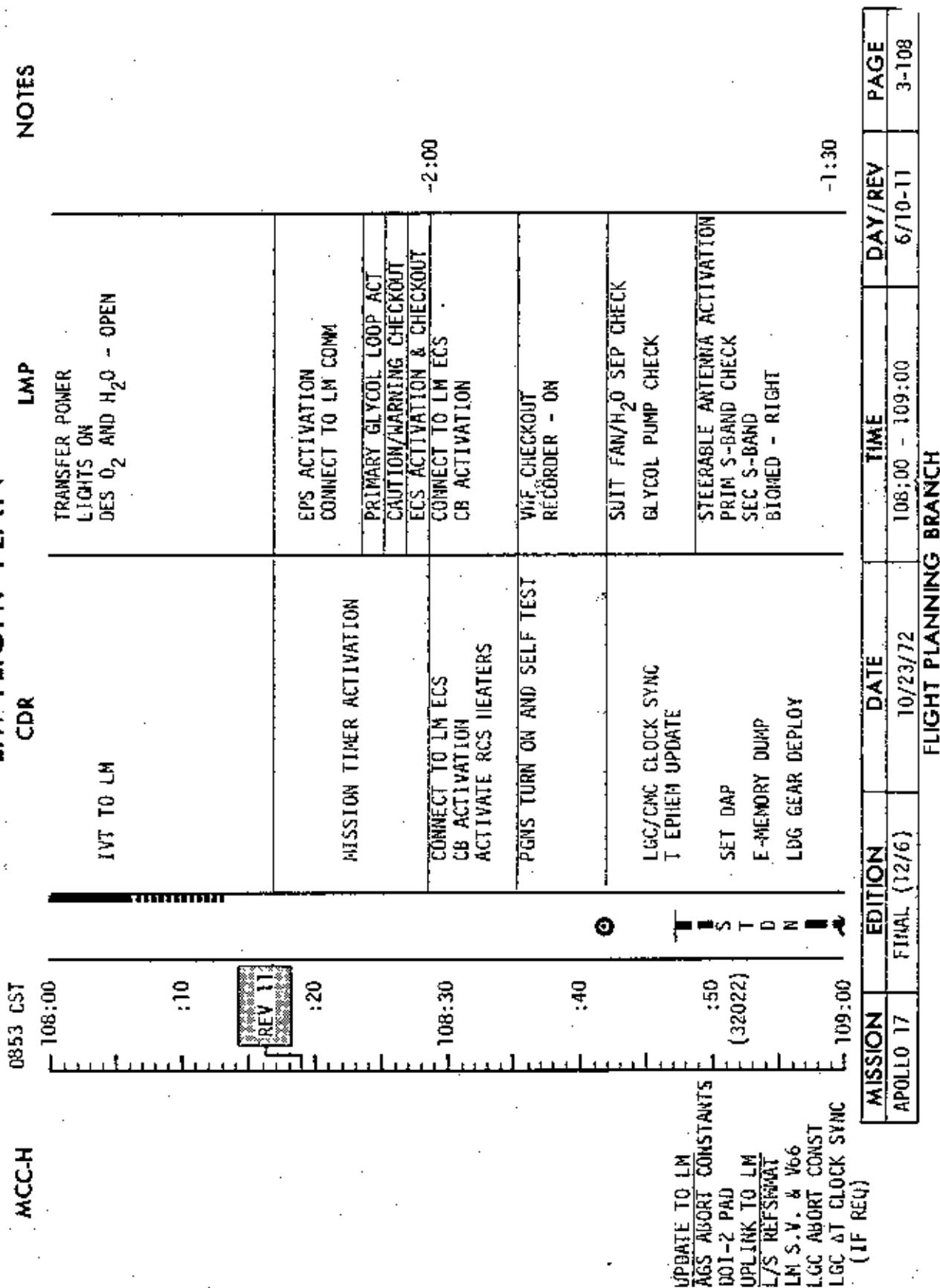
CSM TO LM TRANSFER LIST	
CSM LOCATION	LM LOCATION
A2	JETTISON BAG (1)
ON CREW	RIO INSTRUMENTATION (2)
PGA BAG	UCLA (2)
A2	FCS (2)
U1	LEG (2)
TEMP STRG	DRINK BAG (2)
PGA BAG	FOOD STICK (2)
TCG	SUIT FTSLA-EV (2)
ON CREW	SUNGASSES IN POWAH (2)
ON CREW	WATCH/WATCHBAND (2)
PEN (2)	PEN (2)
ON CREW	PEN - FEEL TIP (2)
ON CREW	PENCIL (2)
ON CREW	POCKET - C/L & SCISSOR (2)
ON CREW	SCISSOR
ON CREW	SCISSOR
ON CREW	EAR PLUG (2)
ON CREW	DOSIMETEN - PERSONAL (2)
ON CREW	PASSIVE (6)
ON CREW	COPA CARRIER (2)
ON CREW	HELMET ACC BAG IV GLOVES (2/PB) - CBR TRANSFER
ON CREW	HELMET BAG
ON CREW	HELMET (2) (CBR TRANSFER)
RD	CMG ELECT ADPTA CAP (2)
RD	CMG CABLE
IN JETT BAG	CMG ELECT ADPTA (2)
ON PGA	LEG PLUG (2)
ON PGA	GAS CONNECTOR PLUGS (4)
AB	PGA ELECT CORK CAP (2)
AB	LIGHTWEIGHT HEADSETS (2)
R3	LM KEEPER DATA CARD KIT
	LN TIMELINE BOOK
	LN DATA CARD BOOK
	LN LUNAR SURFACE CAL
	OBIT MONITOR CHART (1/M)
	ASCENT MONITOR CHART
	LN STAR CHARTS (3)
	LN ACT C/L (1)
	(RETURN JETTISON BAGS TO CSM)

CSMS: (ADS +58 MIN)
 DSE RECORD
 VERIFY DSE TAPE MOTION (LINE/READY/FWD/CMD RESET)
 SET HGA MAN P -30, Y 202 AUTO, NARROW FOR ADS
 108:00

MISSION	EDITION	DATE	PAGE
Apollo 17	FINAL (17/6)	10/27/72	1 / 187

LM FLIGHT PLAN

NOTES



CSM FLIGHT PLAN

AT LM REQUEST: LM PARK - RESET/OFF GET (RECORD)		SIM EXP STATUS [00000] [01000]	SIM EXP STATUS [00000] [01000]	SIM EXP STATUS [00000] [01000]
SYS TEST - 70				
SYS TEST 100 - 0 Volts				
DATA SYS - OFF				
CONFIGURE CAMERA: (UNDOCKING PHOTOS) CM27/DRC /18-CER-BART.MIR {F8,1/250,7} 12 fps (100% MAG)				
MAG (CC) MAG 2				
UTILITY PORT - ON				
CM27/EU/SD/CEX {F8,1/250,FOCUS} 10 FR				
MAG (EX) _____, FR # _____				
L10H CANISTER CHANGE (1) INTO A, STOW 9 IN 49)				
10:00 [2100] [0100]	10:00 [2100] [0100]	10:30 [2100] [0100]	10:30 [2100] [0100]	10:30 [2100] [0100]
AT COR REQUEST: MARK TO LM FOR LM MISSION TIMER SYNC.				
10:40				
10:50				
10:55				
11:00				
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26:05				
26:10				
26:15				
		</td		

LM FLIGHT PLAN

三

0953 CST
109:00 (32022)

8

三

NOTES

DOCKED TIME COURSE AT 1 CM

卷之三

- 1 -

P52. IMU REALIGN
OPTION 3, REFORMAT
LDG SITE ORIENT
(CURSOR/SPIRAL TECHNIQUE)
Y06 N20
RCS PRESSURIZATION & CHECK

109:30
05:50

UPDATE TO LM
PIPA BIAS (IF REQ)

SET-DAP

RR SELF TEST **VERIFY PROBE & DROGUE
INSTALLATION
CLOSE & SECURE HATCH**

GO/NO-GO FOR
UNBLOCKING &
SEPARATION

DON HEDGES & GLOVES

VHF B XMTR-DATA
PCM-LQ

ARS/PGA PRESSURE INTEGRITY CHECK

80

FLIGHT PLANNING BRIEFING					
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	109:00 - 110:00	6/11	3-110

CSM FLIGHT PLAN

TIME	ACTIVITY	STATUS	NOTES
109:00 (2101) [111]	SIM EXP STATUS (#0000) (0100)	SIM EXP STATUS (#0000) (0100)	
109:30 [2101] [111]		PANEL 10 ROUTE = VOX VOX SENS SW = 5 S-BD = OFF INTERCON = OFF VHF AN T/R + V/H (VERIFY)	
110:00 [2101] [111]	MAN ATT (3) + RATE CMG LIMIT CYCLE - ON ATT DB - MIN RATE - LOW DRAWS (3) - ATT 1/RATE 2 SC CONT - SEC LN DOCKED IN COARSE ALIGN	AFTER LN RCS CHECKOUT CMC MODE - AUTO LN RR SELF TEST AND2 XPNDR = OFF (VERIFY) AUTO INS SEL 03 - OFF	
110:30 [2101] [111]	Y06N20	ROLL (8) - OFF UNTIL LM/CN AP > 3.5 PSID DOCKING LATCH RELEASE (DECAL) ATCH INSTALLATION (DECAL)	
110:40 [2101] [111]		ENDS: USE RECORD	
110:45 [2101] [111]	Y06N20	INPAITE: 60/NO-GO FOR UNLOCK/SEP	
110:50 [2101] [111]		WATH LM RR SELF TEST COMPLETE: AUTO RTS SEL 03 - ON	
110:55 [2101] [111]		WATH INTEGRITY CHECK (DECAL)	
111:00 [2101] [111]	Y06N20	WIF ANT - RIGHT (VERIFY) WIF REV ONLY - B DATA WIF AM A - SIMPLEX WIF AM B - OFF	
111:05 [2101] [111]		VERIFY DISC TAPE MOTION (L08/RCDFWD/CMD RESET)	
111:10 [2101] [111]		OFF HELMT, GLOVES	
111:15 [2101] [111]		RR XPNDR ACTIVATION AND SELF TEST (DECAL)	
111:20 [2101] [111]		114 VALUES A ~ 1.75 KGF B ~ 2.35 KGF TEST C ~ 0.3 UNILOCK ~ 4.9 100 KGF	
111:30 [2101] [111]		ENDZ XPNDR - MTRS	
110:00 [2101] [111]		110:00	
110:30 [2101] [111]		110:30	
111:00 [2101] [111]		111:00	
111:30 [2101] [111]		111:30	

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-111

LM FLIGHT PLAN

NOTES

CDR

1053 CST

110:00
(31022)

CABIN REGULATOR CHECK

:05

RATE GYRO TEST

-0:20

PREP FOR UNDOCKING

:10



:15

LM TIMELINE BOOK PAGE 1

-0:10

SET DAP
Y06,N20

:20

P47 THRUST MONITOR
CSM/LM UNDOCKING & SEPARATION

110:27

YAW LEFT 60°, PITCH UP 90°

110:30

MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	110:00-110:30	6/11-12	3-112

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

110:00
 (21101)
 [W11]

EXT LIGHTS RUN/EVA - ON (BP)
 TURNED LIGHTS - OFF
 ROLL (4) - ON

Y40, LOAD MAT & MAT
 Y40, TRIM PWR TO CSM SEP PAD ATT

	WT	WT	WT	WT
+	0	0	0	0
-	0	0	0	0
X	WT	WT	WT	WT

P30: LOAD CSM SEP

SET DET COUNTING UP TO UNDOCK/SEP
 LOAD AV IN EMS TO +100.0
 CHECK NULL DIAS
 VERIFY EMS - 100.0/DV/S18T

GDC ALIGN

VERIFY UNDREAL
 ALT SET = 40 NM

PERFORM UNDOCKING SWITCH

CONFIGURATION
 110
 REY 12

NOTE: UNDOCKING MAY OCCUR:

- FROM 4 MIN EARLY TO 4 MIN LATE ON THE HORIZONTAL
 INERTIAL (IMU) ATTITUDE
- FROM 4 MIN LATE TO 45 MIN
 LATE ON THE HORIZONTAL LOCAL
 VERTICAL (ORDREAL) ATTITUDE

:20
 P41 (TRIM)
 IM44 (3) - ATT 1/RAIT 2
 SC CONF - SCS
 V49 (11102)
 [11111]
 RTH & TRIM - ARMED
 VERBONE (AT LH REQUEST)
 UNDOCKING CHECKLIST
 DMC - OFF
 RELOAD MAT T - FN F

SEPARATION (000,000/105,000)	TIG: 110:27:45
	BT: 3.3 SEC
	AVT: 1.0 FPS
	ULTAGE: WPA
	ORBIT: 60.3 X 13.6

SIN EXP STATUS
 (00000)
 (01000)

SET EXP STATUS

UNDOCKING CHECKLIST

DAC - ON

EMS CODE - NORM

TMC PWR - ON

59:30 PROBE EX/REL - EX/REL (PROBE)
 VERIFY PROBE EXTENDED, LN ATTACHED
 ALLOW MOTION TO DAMP (5 SEC)
 PROBE EX/REL - EX/REL (HOLD) (< 20 SEC)
 00:00 SLATE (+ JET) AFT
 FOR ~ 3 SEC (LOCK CO + 2.0)
 AFTER PROBE/DROGUE DISENGAGED,
 PROBE EX/REL - OFF
 CB DOCKING PROBE (2) - OPEN
 TMC & RHC - LOCKED
 THE PWR - OFF
 PROBE

SC, CORT - CMC

ATT DB - MAX

AV FG - CSM

BRAKES (+) - RATE 2

RHC PWR DIR - OFF

EMS FUNC - AV SET/AVR/Rese

EMS CODE - NORM

PGE BIT RATE - LOW

P30 MANEUVER	C	S	M	S	E	P	PURPOSE
	R	C	S	G	&	N	PROOP/GUID
SET STARS	+						
R ALIGN			0	0	N	I	A
G ALIGN			0	0	N	I	A
Y ALIGN			0	0	N	I	A
VILLAGE			0	0	0	0	SE
			0	0	0	0	NB1
			0	0	0	0	NB2
			0	0	0	0	NB3
			0	0	0	0	NB4
			0	0	0	0	NB5
			0	0	0	0	NB6
			0	0	0	0	NB7
			0	0	0	0	NB8

MISSION

EDITION

DATE

PAGE

110:30

F113

1113

LM FLIGHT PLAN

CDR

NOTES

1123 CST
10:30
(22012)

DOFF HELMETS & GLOVES

CONFIGURE CAMERAS FOR CABIN
PHOTOS, LM/DAC & DC

LDG RADAR CHECK

0:35 C

:40

REPORT: VOGEN2D ANGLES & GET
DPS THROTTLE CHECK

VHF B XMTR-OFF, BIOMED-LEFT
PCM-HI

DPS PRESSURIZATION & CHECKOUT

AGS ACTIVATION

UPDATE TO LM
AGS K-FACTOR
REV 12 LS TCA

:46

LOAD AGS ABORT CONSTANTS

V47 AGS INITIALIZATION
ALIGN AGS TO PGNS

:50

MNVR TO RR CHECK ATT

AGS CONTROL CHECK,
CONFIGURE CAMERAS FOR TCA
LM3/DAC, LM/DC

:55

111:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	110:30 - 111:00	6/12	3-114

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

NOTES

CDR

MCC-H

LMP

UPDATE TO LM
CSM CIRC P76 PAD

NO PDI+12 ABORT PAD
PDI PAD

PDI EARLY ABORT PAD
PDI LATE ABORT PAD

T2 ABORT
T3 TIG
SHe PRESSURE

1153 CST

111:00

(22012)

OBSERVE LDG SITE

RR CHECKOUT

P52 IMU REALIGN
OPTION 3, REFSMMAT
(LDG SITE ORIENT)

:10

S

:15

T

:20

D

:25

R

111:30

E

CAMS CALIBRATION

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	111:00 - 111:30	6/12	3-116

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

111:00
[P20] [6.5°UB]
[1102]
[1111]

2:17 - T2 (AUTO PITCH RATE BEGINS) QPT MODE - NMN, TAKE WORKS
ACQ STDN HGA P -49, Y 187
RECORD MAG X
TNUIS: USE DUMP2

STOP PITCH RATE AT P 491
VHF RING - RESET, COMPARE RR AND VHF RANGE
ACQ STDN HGA P -49, Y 187
RECORD MAG X
TNUIS: USE DUMP2

P52 (OPTION 3)
(LOG SITE ORIENT)

REPORT: GYRO TORQUING ANGLES

EDC Aq. Team

GET

UPDATE:

CIRB PWD (111:15)

P24 LDMK TRUCK PAD (LDMK 8P-3) (117:20)

PADS E-N (113:15)

PIPA DIAS (IF RECD)

:10

5 P N

120

SET STARS	CIRC			PURPOSE
	S	P	S/G & N	
R ALIGN	-	-	0 0	WT N47
P ALIGN	-	-	0 0	PTRN N48
V ALIGN	-	-	+ 0 0	TRIM HRS 6ETI
H3:	-	-	+ 0 0	NIN H33
U/LAGE	-	-	+ 0	SEC AN X N61
GET	-	-	-	AN Y
	-	-	-	AN Z
	-	-	-	R (000)
	-	-	-	R (100)
	-	-	-	Y (358)
	-	-	-	H4 H44
	-	-	-	H5 H5
	-	-	-	WT
	-	-	-	BT
	-	-	-	VC
	-	-	-	SFT
	-	-	-	0
	-	-	-	0 0
	-	-	-	TAN
	-	-	-	BSS
	-	-	-	SPA
	-	-	-	SFP

VHF AM A - SIMPLEX

ADJUST SQUELCII

WT AN B - OFF

VHF RCV ONLY - B DATA

VHF AM Y/B - VFR

MODE - ICMP/PT (PHL 9)

VHF RING - OFF

MODE - WOK (PHL 6 & 10)

LINK:

CSN S-V (CIRC-10)

CIRC TARGET LOAD

P30: VERIFY CIRC BURN PAD ATT (111:34)

ACQ P -35, Y 207

111:30

MISSION

APOLLO 17

DATE

10/23/72

3-1117

4

FLIGHT PLAN

NOTES

LkP

80

1223 CST

MCCW

UPLINK TO LM
CSM SW

LN S.V.
E+MEMORY (IF REQ)
DESI TARGETTING

UPDATE TO LM(G) IF REQ.
GYRO DRIFT COMP
PIPA BIAS

四

G0/M0-G0 FOR DOI1-2

• 55

12:00

CONFIGURE S-BAND FOR LOS PCM-LO

PREP FOR DOI-2
P30, P4;
MNVR TO DOI-2 ATTITUDE

CSM CIRC 131 :56

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	11:30 - 112:00	6/12	3-118

CSM FLIGHT PLAN

SIN EXP STATUS
(+00000)
(01000)

GDC ALIGN	S	(1101)	:40	P40 (TRIM)
VERIFY OSBEAT	T	(1111)		
ALT SET .000 MM	I			
VHF COMM CHECK WITH LN	O			
PRE-SPS BURN SIN PREP (CLUE CARD)	N			
Y40 (1101)				
Y40 (1111)				
SET GET COUNTING UP TO CIRC				

VERIFY ONE TAPE POSITION (LBB/BCD/FND/CDF RESET)

CSN CIRCUMVALATION [000,004/100,358] TIG: 111:55:22.7
 BT: 4.0 SEC
 AV: 70.1 MPS
 VILLAGE: 4.37, 12. SEC
 ORBIT: 70.3 x 54.3
 POGO

1011

PRINTED ON 10/22/2018

80/21

CIRC BUCK TABLE					MANUAL
SYS LIMITS	P OR Y RATES	ATT DEVIATIONS	SATDOWN TIME	RESIDUALS	
IGHT	10°/SEC	$\pm 10^\circ$ TERMINATE	AT +1 SEC 4-BUTTON	IF X,Y,Z ARE <5 FPS TRIM TD <0.2 FPS GO AND TRIM IF ANY RESIDUAL >5 FPS IF (-Y) ² OR (+Y) ² HULL LEFT AND USE -Z TIMESTERS	MANUAL START RESTART IF AV >20 FPS

WALD ALY FÄRBER - STANT ON SUBJECT

CONTINGENCY COMMUNICATIONS

1. Loss of voice comms with LM
 VHF AN B - SINGLEX
 VHF RXG ONLY - OFF
 (LM will select A and B simplex)
2. If no reply from CSM call or garbled voice
 VHF AN A - OFF
3. If no reply from CSM call
 VHF AN B - DUPLEX
 (LM will select duplex A)
4. Select back up audio center

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1. Loss of voice communication with LN
 VHF AN B - SIMPLEX
 VHF RCV GND - OFF
 (LN will select A and B simplex)
 2. If no reply from CSM call or garbled voice
 VHF AN A - OFF
 3. If no reply from CSM call
 VHF AN B - DupLEX
 (LN will select duplex A)
 4. Select back up audio center

MISSION	EDITION	DATE	PAGE
Apollo 17	First (126)	10/23/72	3-119

FW277 MCC-H

LM FLIGHT PLAN

CDR

NOTES

1253 CST

112:00
(22012)

LM DOI-2

P76 UPDATE CSM S.V.

:05

PREP FOR PDI

REV 13

MNVR TO PDI ATTITUDE

:10

V47 AGS INITIALIZATION

(22112)

SET DAP

DON HELMETS & GLOVES

:15

CHECK ECS, RCS, EPS, APS
CAMERA PREP FOR EARTHRISE
LM/DC

CAMERA PREP FOR PDI
LM3/DAC

BATS 5 & 6 - ON
INVERTER-1

:20

:25

112:30

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	112:00 - 112:30	6/12-13	3-120

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

CDR

1323 CST

MCC-H

112:30
(22)12)

NOTES

LMP

UPLINK TO LM
LM S.V. (PDT-10)
RLS-2
UPDATE TO LM
AGS RLS

:35

REPORT: ED BAT VOLTS
ASC BATS ON TIME

T

UPDATE TO LM
N69 BACKUP RLS
(IF REQD)

:40

P63 PDI

LR ON

:45

S Y N

GO/NO-GO FOR PDI

UPDATE TO LM
N69 NOMINAL, DOWN
TRACK, CROSS
TRACK, RADIAL
(IF REQD)

:50

LM PDI

X

113:00

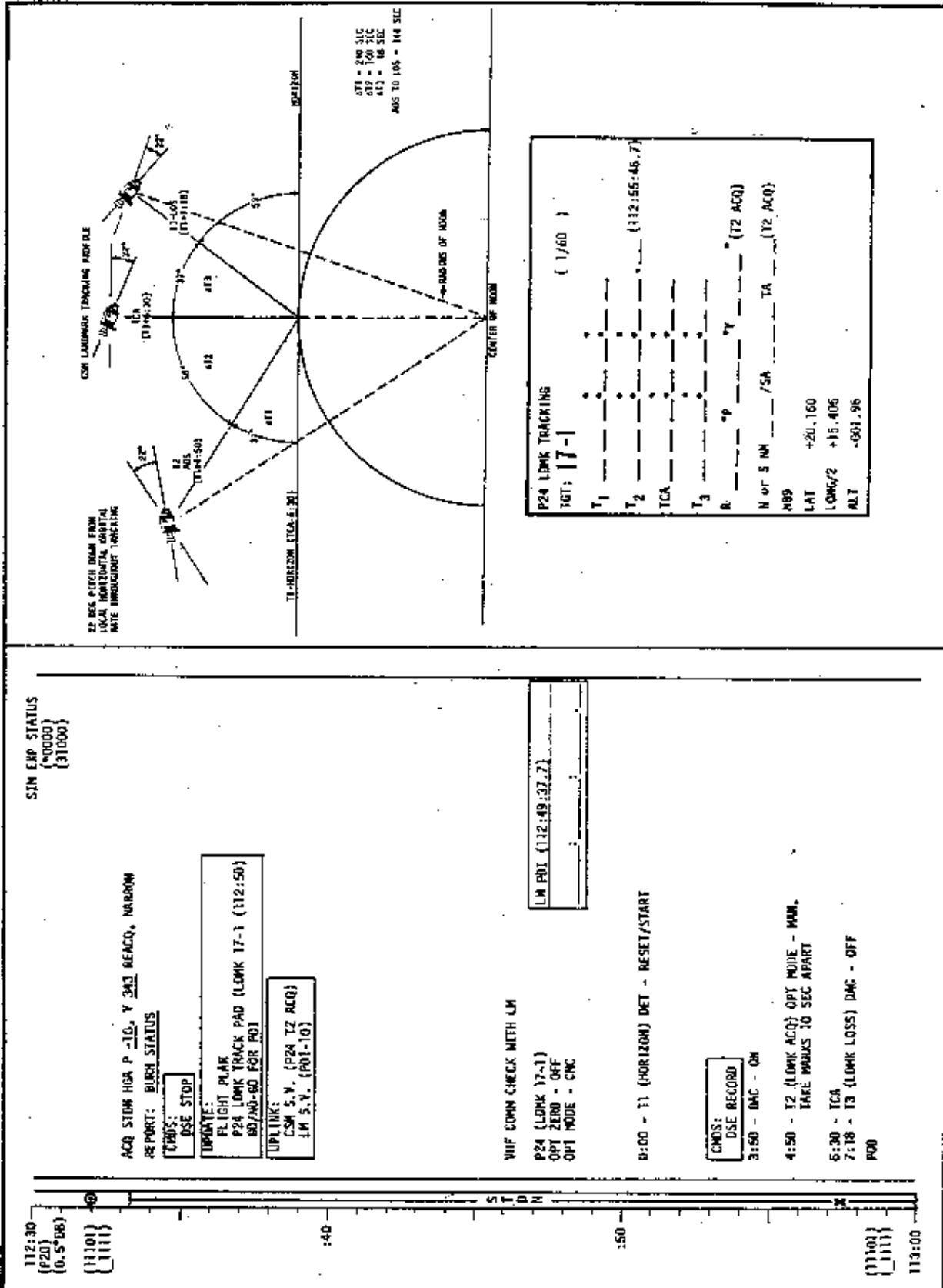
PCM - HI
VHF B XMTR-OFF
AUDIO MODE - VOX
GDS 210' AOS
TARGET AGS FOR ABORT

TIG: 112:50
BT: (DPS) 12 MIN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	112:30 - 113:00	6/13	3-122

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

1353 CST
(22112)

MCCCH

NOTES

LM

113:02

LM LUNAR TOUCHDOWN

STAY/NO-STAY FOR T1

:05

T1 STAY/NO-STAY
PI2 POWERED ASCENT

UPDATE & ALIGN AGS

STAY/NO-STAY FOR T2
& GO/NO-GO FOR
DPS VENT

:10

T2 STAY/NO-STAY &
GO/NO-GO FOR DPS VENT

TAPE RECORDER - OFF

113:15

S
T
D
N

VENT DPS PROPELLANTS
DOFF HELMETS, GLOVES,
& RESTRAINTS

LUNAR SURFACE CHECKLIST, PAGE 1-1
BATS 5 & 6 - OFF/RESET
INVERTER - 2
REPORT: DEDA 047, 053
544, 545, 546

:20

P57 LUNAR SURFACE ALIGN
OPT 3, REFSWAT, A/T-3
(LDG SITE ORIENTATION)

AGS LUNAR SURFACE GYRO
CALIBRATION

:25

PARK IMU PLATFORM

ALIGN AGS TO PGNS

UPDATE TO LM
STAY/NO-STAY FOR T3
IMU PARK ANGLES

113:30

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	113:00 - 113:30	6/13	3-124

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

Y49 NAVR TO P52/0DAS CAL ATT (113:10) [113:00] [11101] [11111] SIM EXP STATUS [P52/0DAS] [21000]

LW TOUCHDOWN (113:02)

P52 TYPICAL REACTIONS

CONFIDENTIAL STAY HOW 11

ת. 350.000 ₪
מ. 100.000 ₪

PS2 (ORTION 3)
(DS SITE ORIENT)

REPORT: GUARD TORQUING MACHINES

P20 OPT 5	+X FWD SIM ATT	(113-35)
M9	{+090.00}	COLS CAN
	{+052.25}	
	{+180.00}	SHAFT:
N9	{+000.50}	
HKA	P -24.	173.

UPDATE:
PAN CAMERAS PRINTED PAGE {111/110}

RWDZ XPNDR - OFF
EXT LIGHTS RUN/EVA - OFF

113:00		149 MNVR TO P52/COAS CAL ATT (113:10)		SIM EXP STATUS (0000) (21000)	
{113:01}		{180,284,336) NGA P -33, Y ±		LN TOUCHDOWN (113:02)	
113:02		P52 TMA REALIGN		P52 TMA REALIGN	
M1:		M2:		M3:	
N93:		A		B	
Y		C		D	
GETI		NB1		NB2	
TPI		NB3		NB4	
N33		NB5		NB6	
SEC		NB7		NB8	
GETI		NB9		NB10	
TPI		NB11		NB12	
N37		NB13		NB14	
SEC		NB15		NB16	
GETI		NB17		NB18	
TPI		NB19		NB20	
N37		NB21		NB22	
SEC		NB23		NB24	
GETI		NB25		NB26	
TPI		NB27		NB28	
N37		NB29		NB30	
SEC		NB31		NB32	
GETI		NB33		NB34	
TPI		NB35		NB36	
N37		NB37		NB38	
SEC		NB39		NB40	
GETI		NB41		NB42	
TPI		NB43		NB44	
N37		NB45		NB46	
SEC		NB47		NB48	
GETI		NB49		NB50	
TPI		NB51		NB52	
N37		NB53		NB54	
SEC		NB55		NB56	
GETI		NB57		NB58	
TPI		NB59		NB60	
N37		NB61		NB62	
SEC		NB63		NB64	
GETI		NB65		NB66	
TPI		NB67		NB68	
N37		NB69		NB70	
SEC		NB71		NB72	
GETI		NB73		NB74	
TPI		NB75		NB76	
N37		NB77		NB78	
SEC		NB79		NB80	
GETI		NB81		NB82	
TPI		NB83		NB84	
N37		NB85		NB86	
SEC		NB87		NB88	
GETI		NB89		NB90	
TPI		NB91		NB92	
N37		NB93		NB94	
SEC		NB95		NB96	
GETI		NB97		NB98	
TPI		NB99		NB100	
N37		NB101		NB102	
SEC		NB103		NB104	
GETI		NB105		NB106	
TPI		NB107		NB108	
N37		NB109		NB110	
SEC		NB111		NB112	
GETI		NB113		NB114	
TPI		NB115		NB116	
N37		NB117		NB118	
SEC		NB119		NB120	
GETI		NB121		NB122	
TPI		NB123		NB124	
N37		NB125		NB126	
SEC		NB127		NB128	
GETI		NB129		NB130	
TPI		NB131		NB132	
N37		NB133		NB134	
SEC		NB135		NB136	
GETI		NB137		NB138	
TPI		NB139		NB140	
N37		NB141		NB142	
SEC		NB143		NB144	
GETI		NB145		NB146	
TPI		NB147		NB148	
N37		NB149		NB150	
SEC		NB151		NB152	
GETI		NB153		NB154	
TPI		NB155		NB156	
N37		NB157		NB158	
SEC		NB159		NB160	
GETI		NB161		NB162	
TPI		NB163		NB164	
N37		NB165		NB166	
SEC		NB167		NB168	
GETI		NB169		NB170	
TPI		NB171		NB172	
N37		NB173		NB174	
SEC		NB175		NB176	
GETI		NB177		NB178	
TPI		NB179		NB180	
N37		NB181		NB182	
SEC		NB183		NB184	
GETI		NB185		NB186	
TPI		NB187		NB188	
N37		NB189		NB190	
SEC		NB191		NB192	
GETI		NB193		NB194	
TPI		NB195		NB196	
N37		NB197		NB198	
SEC		NB199		NB200	
GETI		NB201		NB202	
TPI		NB203		NB204	
N37		NB205		NB206	
SEC		NB207		NB208	
GETI		NB209		NB210	
TPI		NB211		NB212	
N37		NB213		NB214	
SEC		NB215		NB216	
GETI		NB217		NB218	
TPI		NB219		NB220	
N37		NB221		NB222	
SEC		NB223		NB224	
GETI		NB225		NB226	
TPI		NB227		NB228	
N37		NB229		NB230	
SEC		NB231		NB232	
GETI		NB233		NB234	
TPI		NB235		NB236	
N37		NB237		NB238	
SEC		NB239		NB240	
GETI		NB241		NB242	
TPI		NB243		NB244	
N37		NB245		NB246	
SEC		NB247		NB248	
GETI		NB249		NB250	
TPI		NB251		NB252	
N37		NB253		NB254	
SEC		NB255		NB256	
GETI		NB257		NB258	
TPI		NB259		NB260	
N37		NB261		NB262	
SEC		NB263		NB264	
GETI		NB265		NB266	
TPI		NB267		NB268	
N37		NB269		NB270	
SEC		NB271		NB272	
GETI		NB273		NB274	
TPI		NB275		NB276	
N37		NB277		NB278	
SEC		NB279		NB280	
GETI					

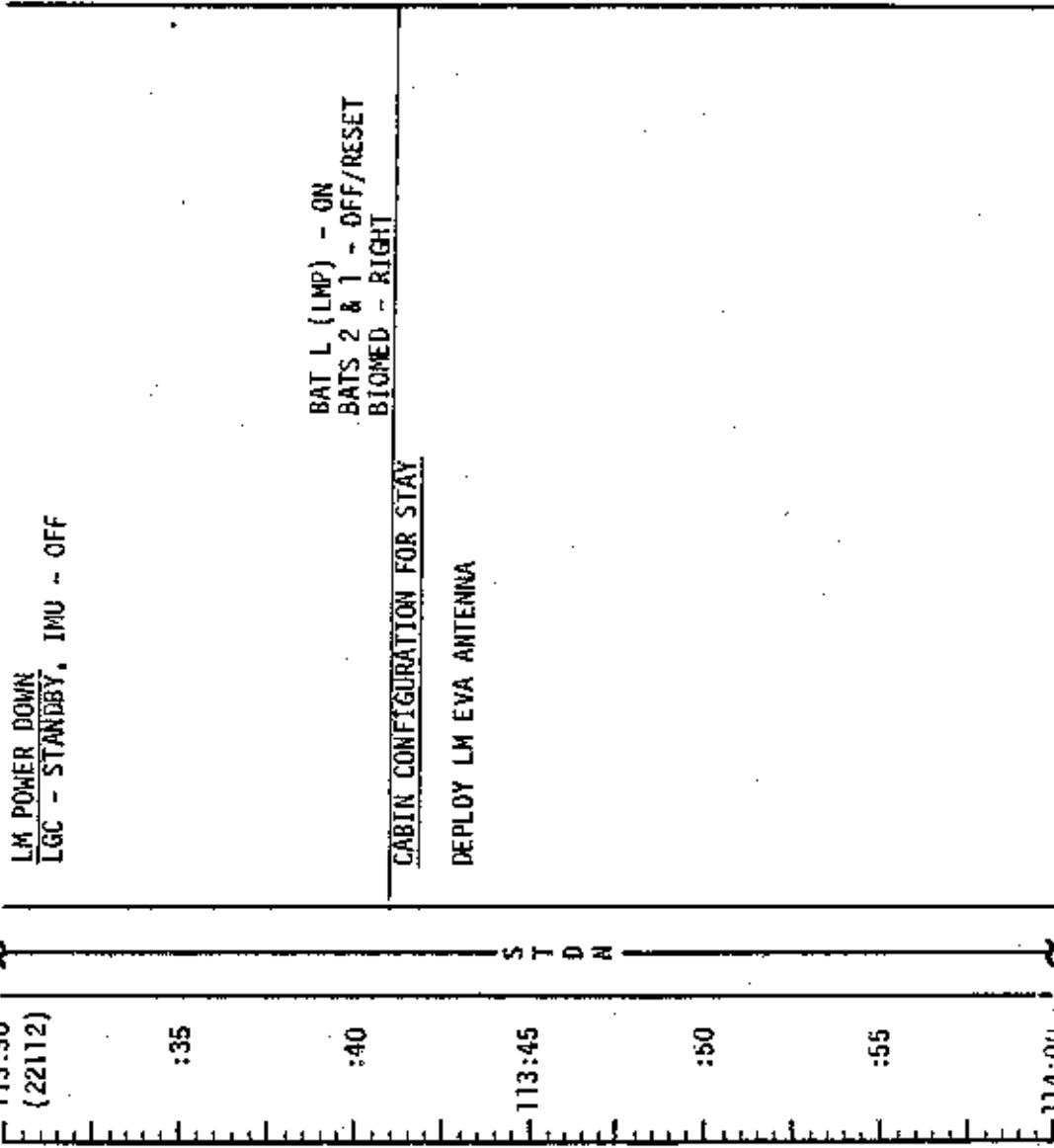
LM FLIGHT PLAN

CDR

1423 CST

113:30

E (22112)



MCC-H

NOTES

LMP

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	113:30 - 114:00	6/13	3-126

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

113:30 [P20] POST-SYS BURN SIM PREP (CUE CARD)
 WFM AN A - OFF (CR)
 WFM REV ONLY - OFF
 {0.5 sec}

[1110] DATA SYS - ON

IR - ON

UV - ON

MCPLA COVER - OPEN

IR COVER - OPEN

UV COVER - OPEN

WC - EXTD

SIM EXP STATUS
 [+00000]
 {31000}

CMOS: (AOS +68 RTN)
 DSE RECORD

VERIFY USE TAPPE MOTION (MIRRORED/FWD/CND RESET)
 SET MEA MNH, MODE P -10, Y 25 FOR AOS

PC: STBY
 STEREO
 PWM

LA - ON
 IMAGE MNH - ON

114:00

:40

:50

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL [12/6]	10/25/72	3-127

LM FLIGHT PLAN

CDR

NOTES

MCC-H

CABIN CONFIGURATION FOR STAY (CONT)

LMP

CSM REV 4

REPORT: PRD

CSM REV 4

:10

:20

:30

:40

:50

:00

EAT PERIOD

S T D N

:40

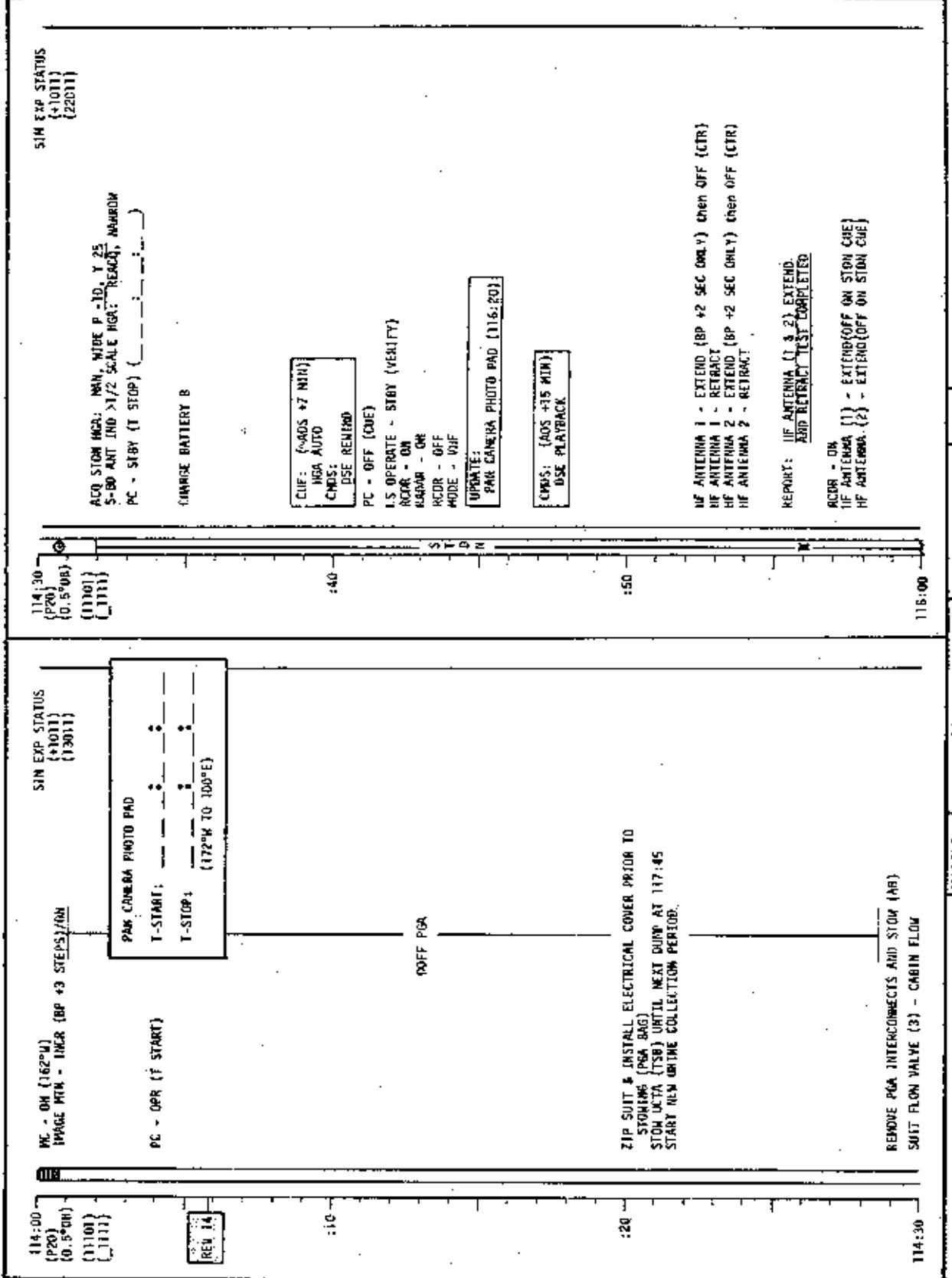
:50

CABIN PREP FOR EVA-1
UNSTOW EVA-1 PREP & POST CARD. STOW LUNAR SURFACE CKLST

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	114:00 - 115:00	6/13-14	3-128

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

1553 CST

MCC-H

T | CABIN PREP FOR EVA-1 (CONT)

115:00

NOTES

LMP

:10

-1:30

EQUIPMENT PREP FOR EVA-1

:20

-1:15

S T D N
115:30

:40

-1:00

PLSS DONNING

LMP DON PLSS

CDR DON PLSS

:50

-0:45

116:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	115:00 - 116:00	6/14	3-130

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

LM FLIGHT PLAN

CDR

NOTES

MCC-H 1653 CST 116:00 :10 :20 116:30 :40 :50 117:00

LMF

CSM REV 15

PLSS COMM CHECK
CONFIGURE COMM FOR EVA
RECORDER - ON
REPORT : PLSS O₂ QUANTITY
OBS CONNECT

-0:30

HELMET GLOVE DONNING

-0:16

GO/NO-GO FOR CABIN
DEPRESS

PRESSURE INTEGRITY CHECK

CABIN DEPRESS
START WATCHES @ 3.5 PSIA
FINAL PREP FOR EVA

00:00/START EVA-1

OPEN FWD HATCH

+0:10

EGRESS
DEPLOY MESA

ASSIST CDR

RECORDERS - OFF

EGRESS, CLOSE HATCH

SURFACE FAMILIARIZATION

+0:20

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	116:00 - 117:00	6/14-15	3-132

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

116:00
 IR - ON
 UV - ON
 NC - STBY
 IMAGE MTN - ON
 NC - ON {144°W}
 IMAGE MTN - TBR (BSP +4 STEPS) / ON
 LA - ON
 PC SELF TEST - ON
 REV 16

SIM EXP STATUS
 (+1111)
 (01000)

116:30
 (P20)
 (0.5°UB)
 (1101)
 (1111)

:10-

PREPARE FOR ORBITAL SCIENCE VISUAL
 LANDING SITE (CMS)

:10-

:20-

CUE: (~ADS +7 MIN)
 TGA: AUTO
 LENS: DS₁
 DS₂: PLAYBACK

UPDATE: FLIGHT PLAN

:40-

S

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D

N

:50-

:20-

S

T

D

N

:50-

:50-

X

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LM FLIGHT PLAN

CDR

1753 CST

MCC-H

NOTES

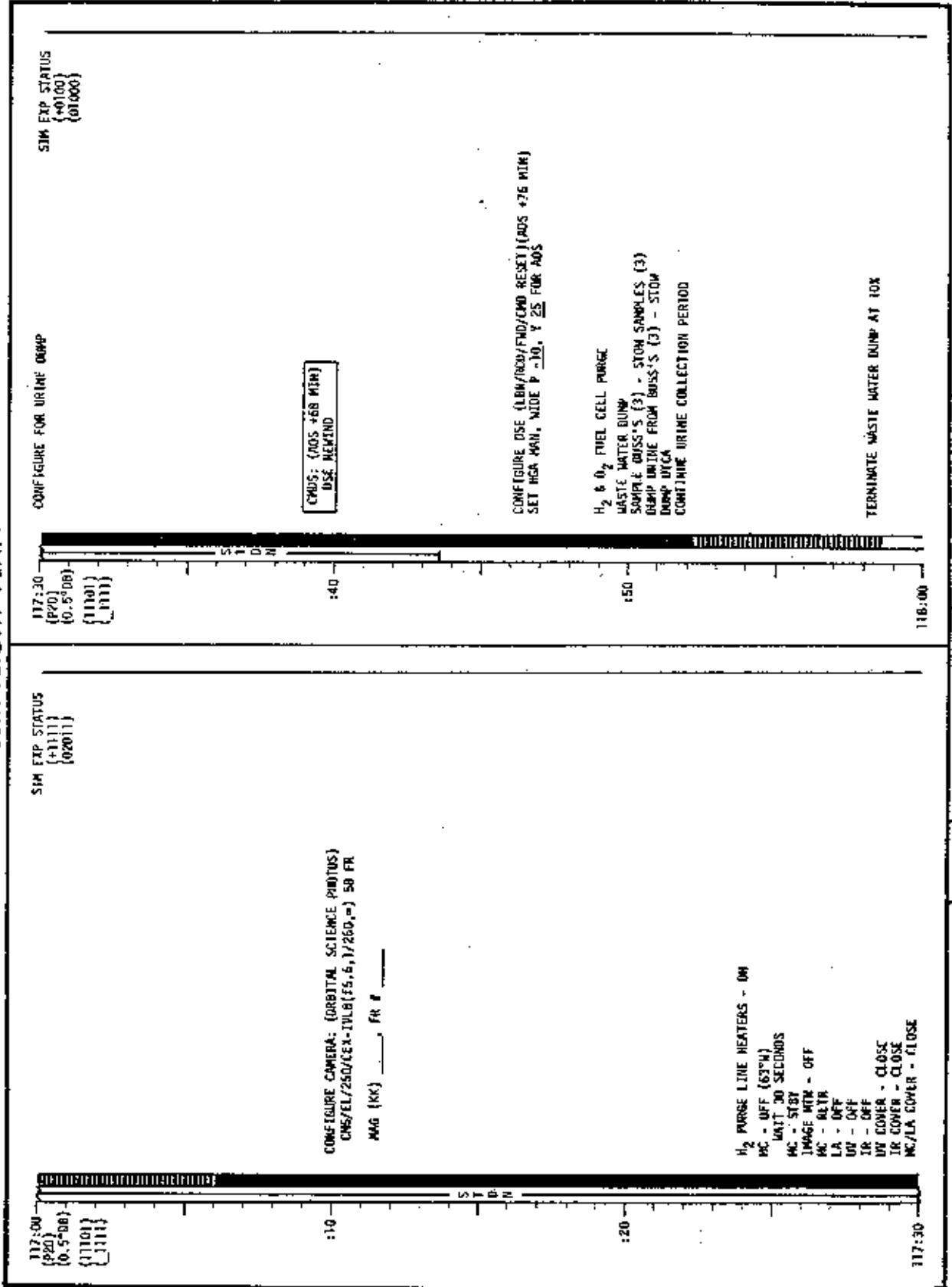
+0:20

	LRV DEPLOY	LMP	
:10			+0:30
:20	LRV SETUP		+0:40
	LRV TEST DRIVE	LM AREA DESCRIPTION & PHOTOS	
	LRV FRONT CONFIGURATION	LRV AFT CONFIGURATION	+0:50
	LRV ANTENNA CONFIGURATION		+1:00
	LRV TV CONFIGURATION	LRV MISC EQUIP STOW	+1:10
	SRC 1 CONFIGURATION	FLAG DEPLOY	
117:30	S T D N		
:40			
:50			
118:00			

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	PRELIM (8/28)	10/23/72	117:00 - 118:00	6/15	3-134

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

NOTES

1853 CST

118:00

+1:20

CSM REV 16

FLAG DEPLOY

LRV LOADUP

T Y

LM INSPECTION

ALSEP OFFLOAD

T Y

+1:30

:10

FUEL RTG

T Y

ALSEP TRAVERSE

S

+1:40

:20

ALSEP TRAVERSE

T Y

ALSEP INTERCONNECT

S D N

+1:50

:30

ALSEP INTERCONNECT

T Y

LSC DEPLOY

T Y

+2:00

:40

LSC DEPLOY

T Y

DRILL PREP

X

+2:10

:50

DRILL FIRST PROBE HOLE

X

+2:20

119:00

CENTRAL STATION DEPLOY

X

MISSION EDITION DATE

APOLLO 17 PRELIM (8/28)

10/23/72

118:00 - 119:00

DAY/REV

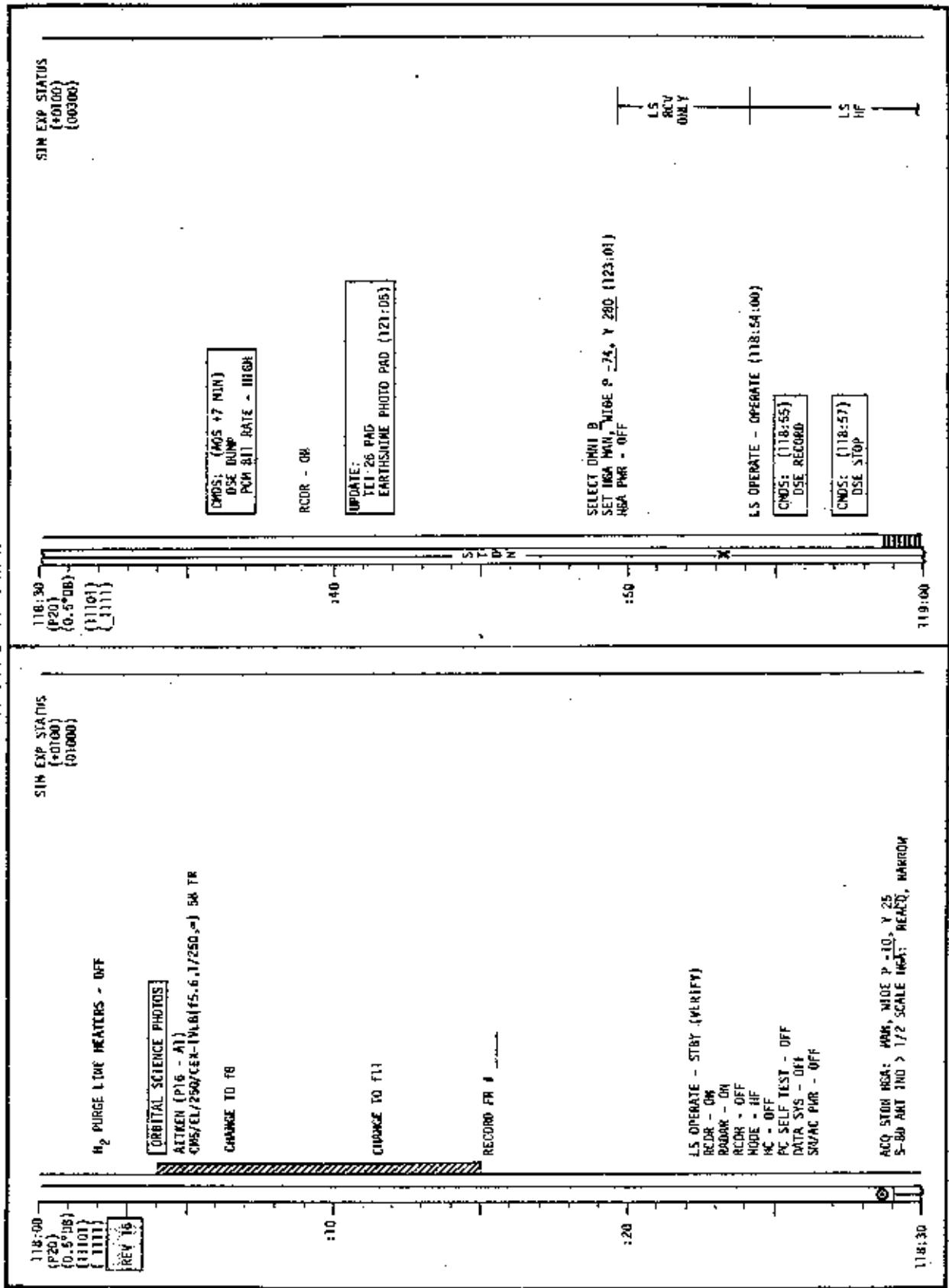
6/15-16

PAGE

3-136

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FROM F171	11-17-72	1

MCC-H

LM FLIGHT PLAN

CDR

1953 CST

NOTES

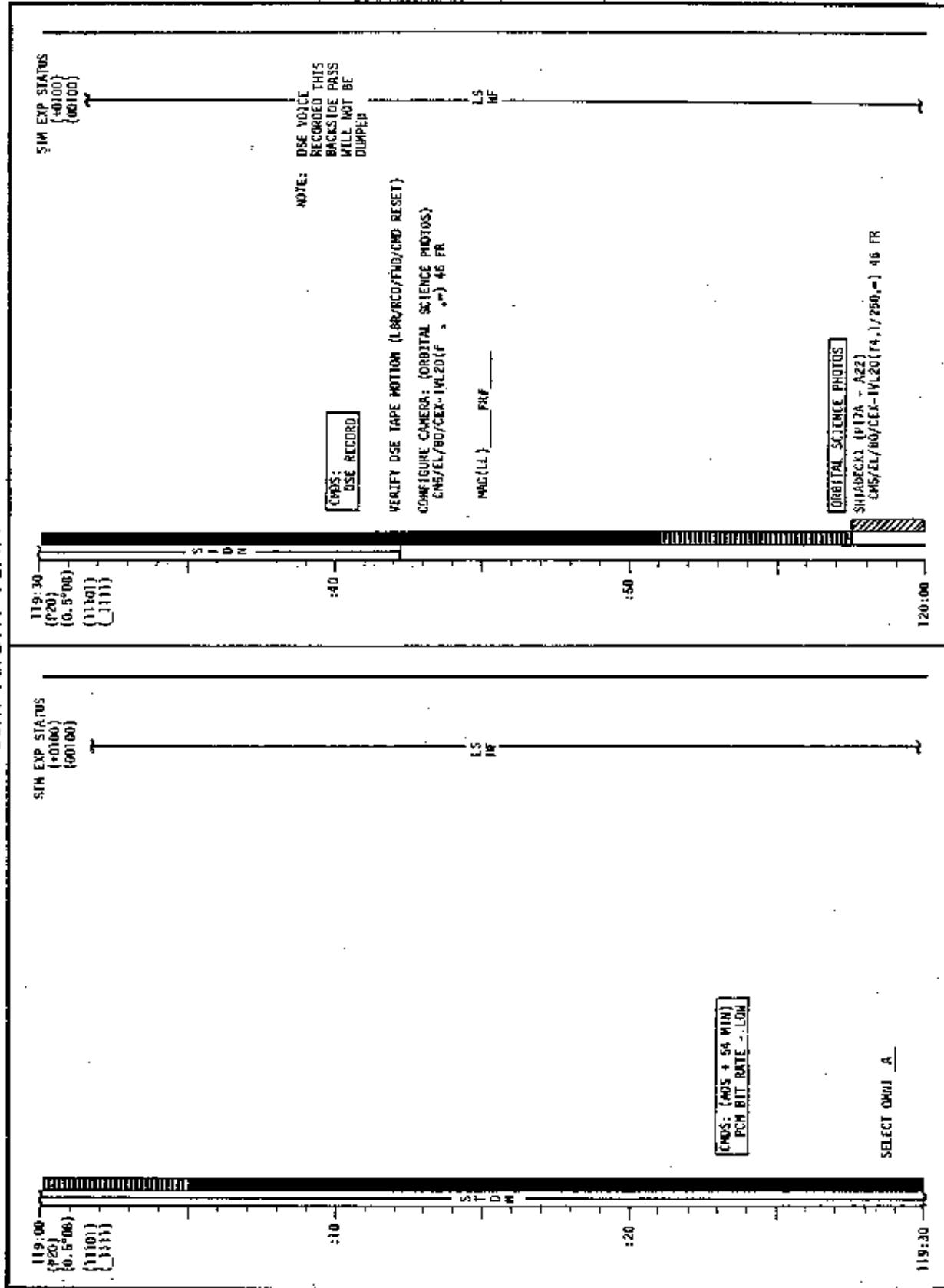
+2:20

	LMP	NOTES
		ALSEP ANTENNA DEPLOY
:10		EMPLACE HFE PROBE #1
		CENTRAL STATION ACTIVATION
		+2:30 TEAM DEPLOY
:20		DRILL SECOND PROBE HOLE
		LSP ANTENNA DEPLOY
		+2:40 CONFIGURE FOR G/M PHOTOS & SAMPLING
		S T T D V N
:30		EMPLACE HFE PROBE #2
		GEOPHONE DEPLOY
		DOCUMENTARY PHOTOS
		+2:50
		DRILL DEEP CORE
		+3:00
		R E C O V E R D E E P C O R E
		+3:10
		+3:20
120:00		

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	119:00 - 120:00	6/16	3-138

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCC-H

2053 CST

120:00

LMP

NOTES

+3:20
CSM REV 17

CDR

CONFIGURE & EMPLACE NEUTRON FLUX	ALSEP PHOTOS
BREAK & CAP CORE STEM	

:10

+3:30

+3:40

LMP

ALSEP PHOTOS

CSM REV 17

PKS 210' AOS
+3:50

GEOLOGY PREP

LOAD PLSS'S

TRV NAV INITIALIZATION

SEP XMTR DEPLOY PREP

120:30 S T D N

DRIVE TO SEP SITE

+4:00

DRIVE TO STATION #1
EP DEPLOY EN ROUTE

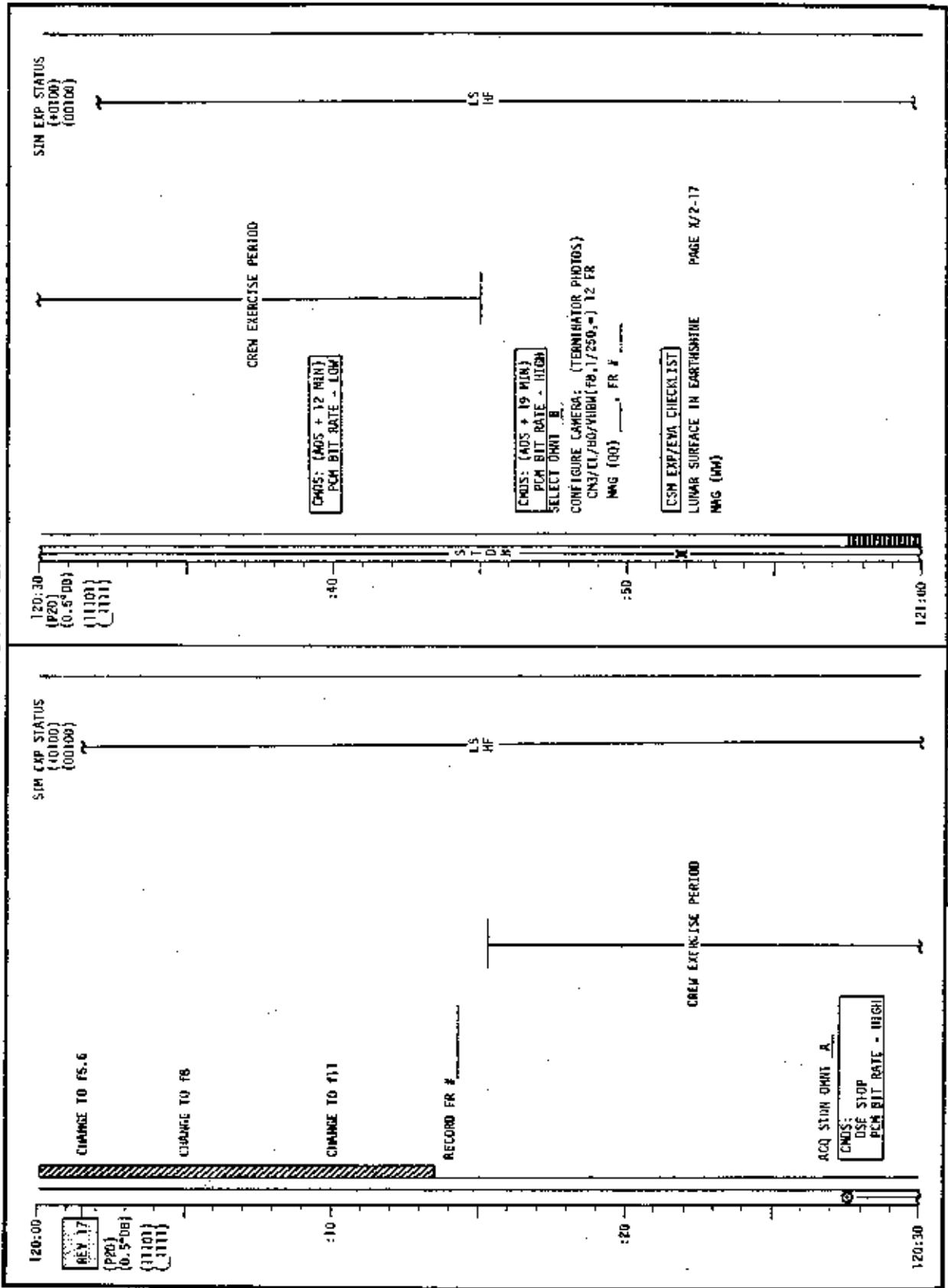
+4:10

+4:20

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	PRELIM (8/28)	10/23/72	12G:00 - 121:00	6/16-17	3-140

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCC44

2153 CST
121:00

CDR LMP

NOTES

+4:20

STATION #1
GEOLOGICAL OBSERVATIONS & PHOTOS
RAKE SAMPLES
DOCUMENTED SAMPLES
DOUBLE CORE
EP DEPLOY

:10

:20

:30

:40

:50

122:00

S T D N

+4:30

+4:40

+4:50

+5:00

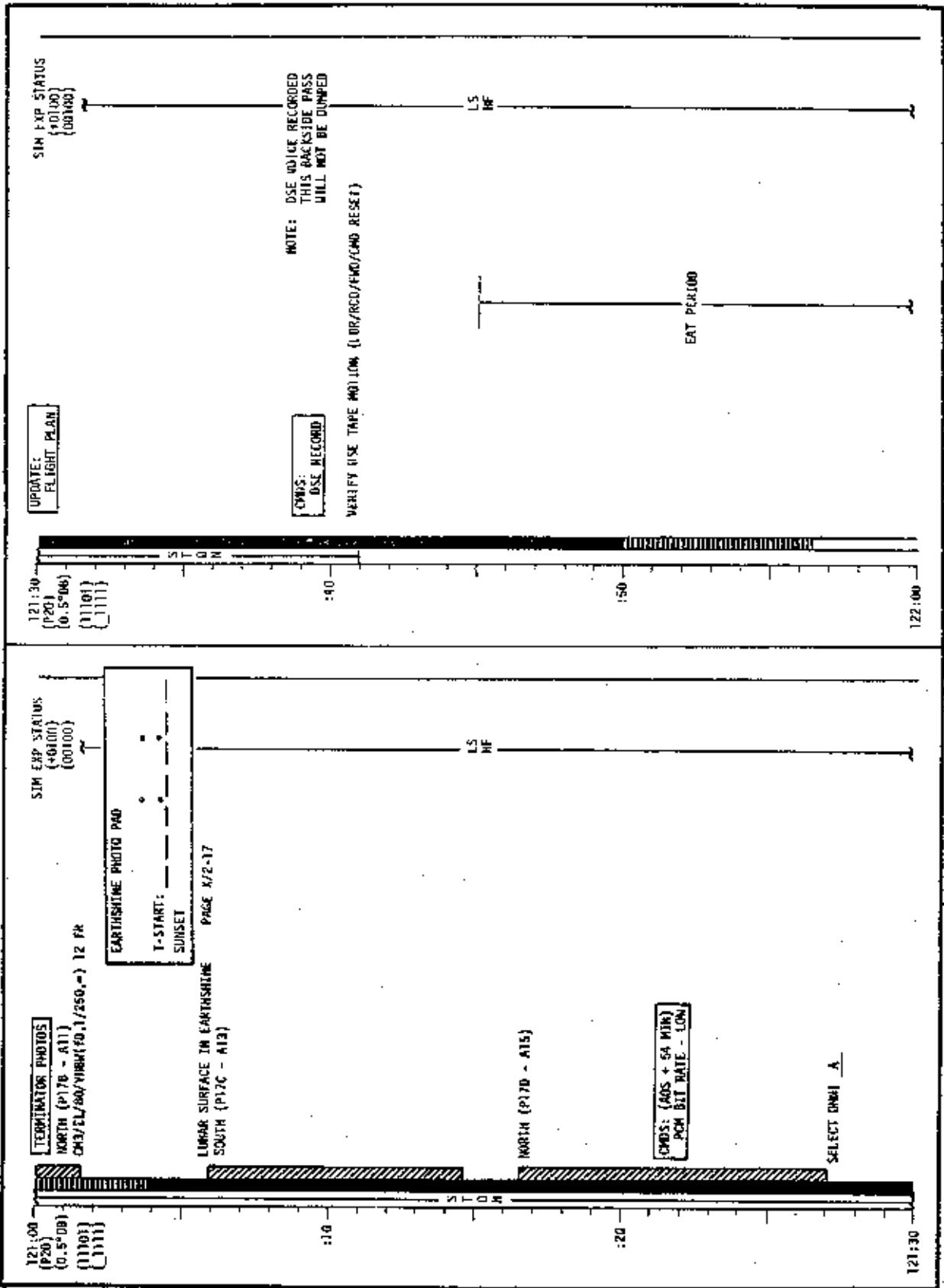
+5:10

+5:20 CSM REV 18

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	PRELIM (8/28)	10/23/72	121:00 - 122:00	6/17	3-142

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/27/72	3-143

LM FLIGHT PLAN

CDR

2253 CST

MCC44

NOTES
+5:20 CSM REV 18

LMP

STATION #1 (CONT)

122:00 :10

DRIVE TO SEP SITE
EP DEPLOY EN ROUTE

+5:30

+5:40

+5:50

+6:00
GDS 210' LOS

+6:10

+6:20

SEP EXPERIMENT DEPLOY

:40

:50

DRIVE TO LM

123:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	122:00 - 123:00	6/18	3-144

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

122:30

SIM EXP STATUS
(P20)
(0.5*08)
{11101}
{1111}

EAT PERIOD

PCM BIT RATE - LOW

CROSS: (ADS + 12 MIN)
PCM BIT RATE = HIGH

SELECT OMNI B

ESN SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE S1-29
EXCEPT COMM

LS HF

123:00

SIM EXP STATUS
(P20)
(0.5*08)
{11101}
{1111}

EAT PERIOD

PCM BIT RATE - HIGH

CROSS: USE STOP
PCM BIT RATE = HIGH

SELECT OMNI A

LS OPERATE - STBY {122:59}
AFTER 1 MIN:
RDR - OFF

122:30

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	J-145

LM FLIGHT PLAN

MCC-H CDR LMP NOTES

2353 CST 123:00

	TRAVERSE TERMINATION	TRAVERSE TERMINATION	46:20
	CLOSEOUT PREP	EVA-1 CLOSEOUT	
:10	EVA-1 CLOSEOUT		+6:30
:20			+6:40
		EVA TERMINATION INGRESS LM	
123:30	EVA TERMINATION		+6:50
	INGRESS LM		
	REPRESS LM	7:00/END EVA-1	
	POST-EVA SYSTEMS CONFIGURATION		
	DOFF HELMETS & GLOVES		
	CONNECT TO LM COMM		
	PLSS O ₂ INITIAL RECHARGE	BIOMED - LEFT	
124:00			

CSM REV 19

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	123:00 - 124:00	6/18-19	3-146

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

CDR

0053 CST, 12/12

MCC-H

124:00 PLSS O₂ INITIAL RECHARGE (CONT)

NOTES

LMP

PLSS/OPS DOFFING

REPORT: OPS PRESSURE

:10

:20

S T D N
124:30

:40

X

125:00

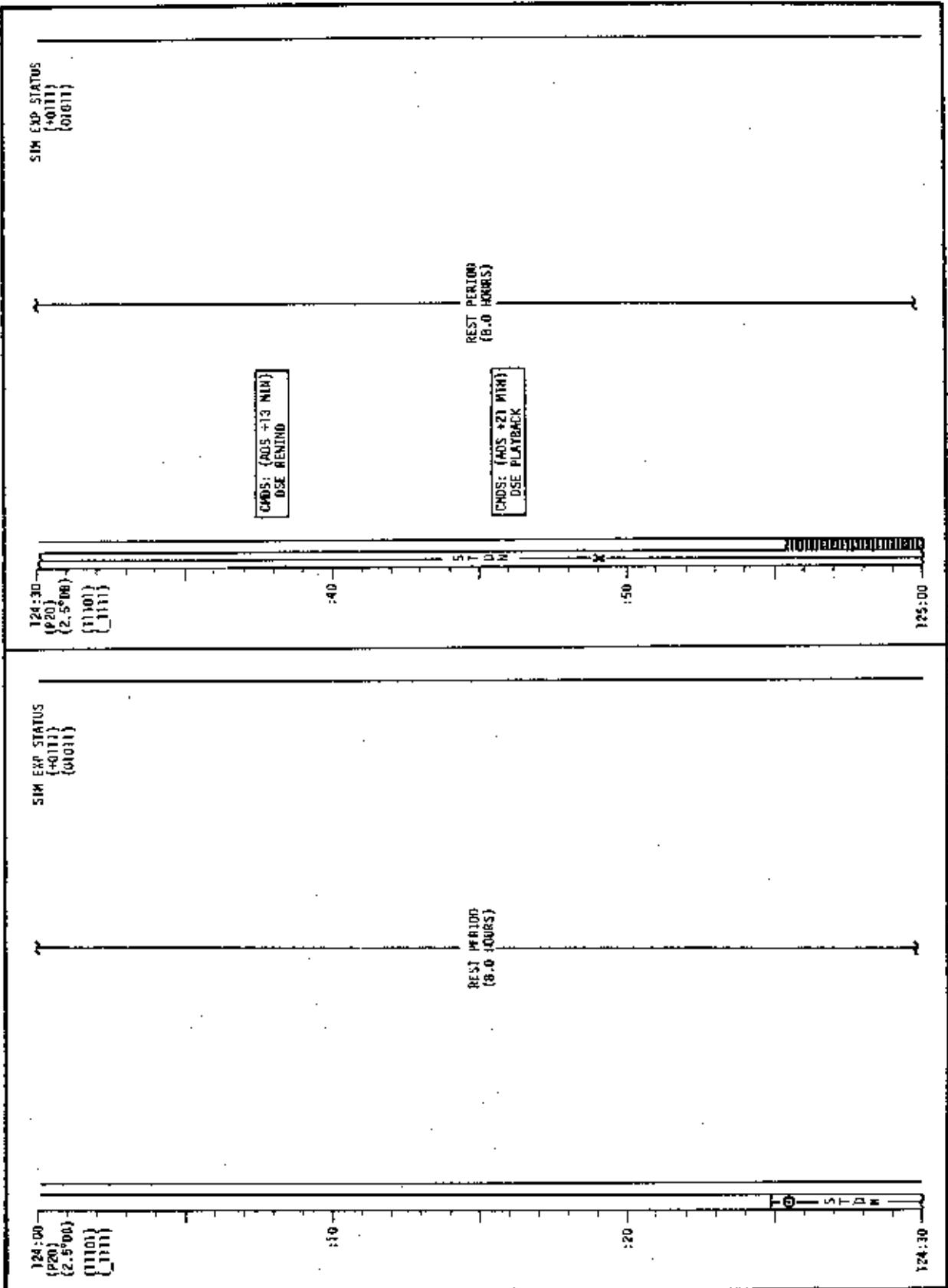
POST-EVA CABIN CONFIGURATION

MEIGH SRC & COLLECTION BAGS, REPORT: WEIGHTS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	124:00 - 125:00	6/19	3-148

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MCC44

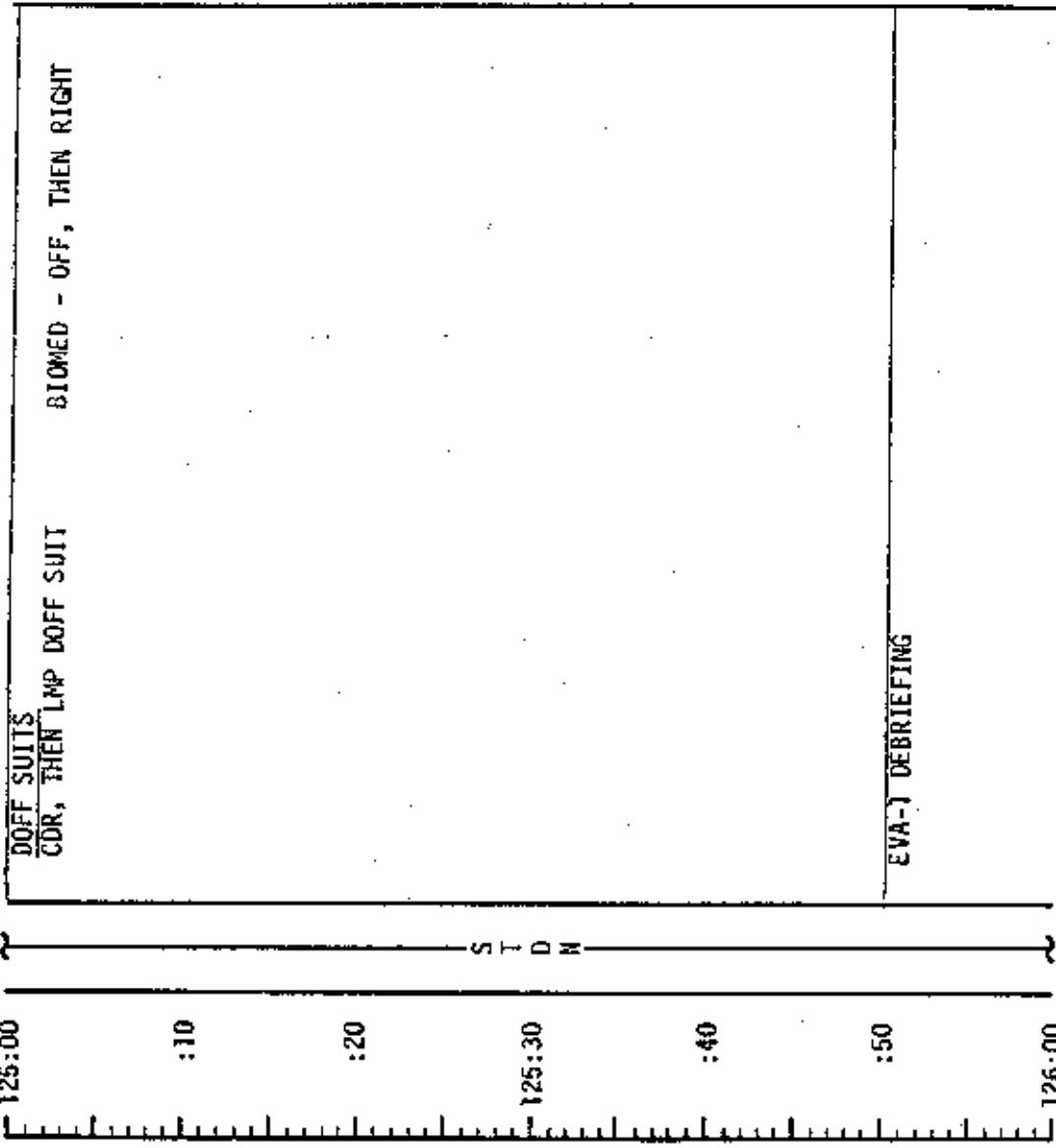
LM FLIGHT PLAN

CDR

NOTES

0153 CST

LMP

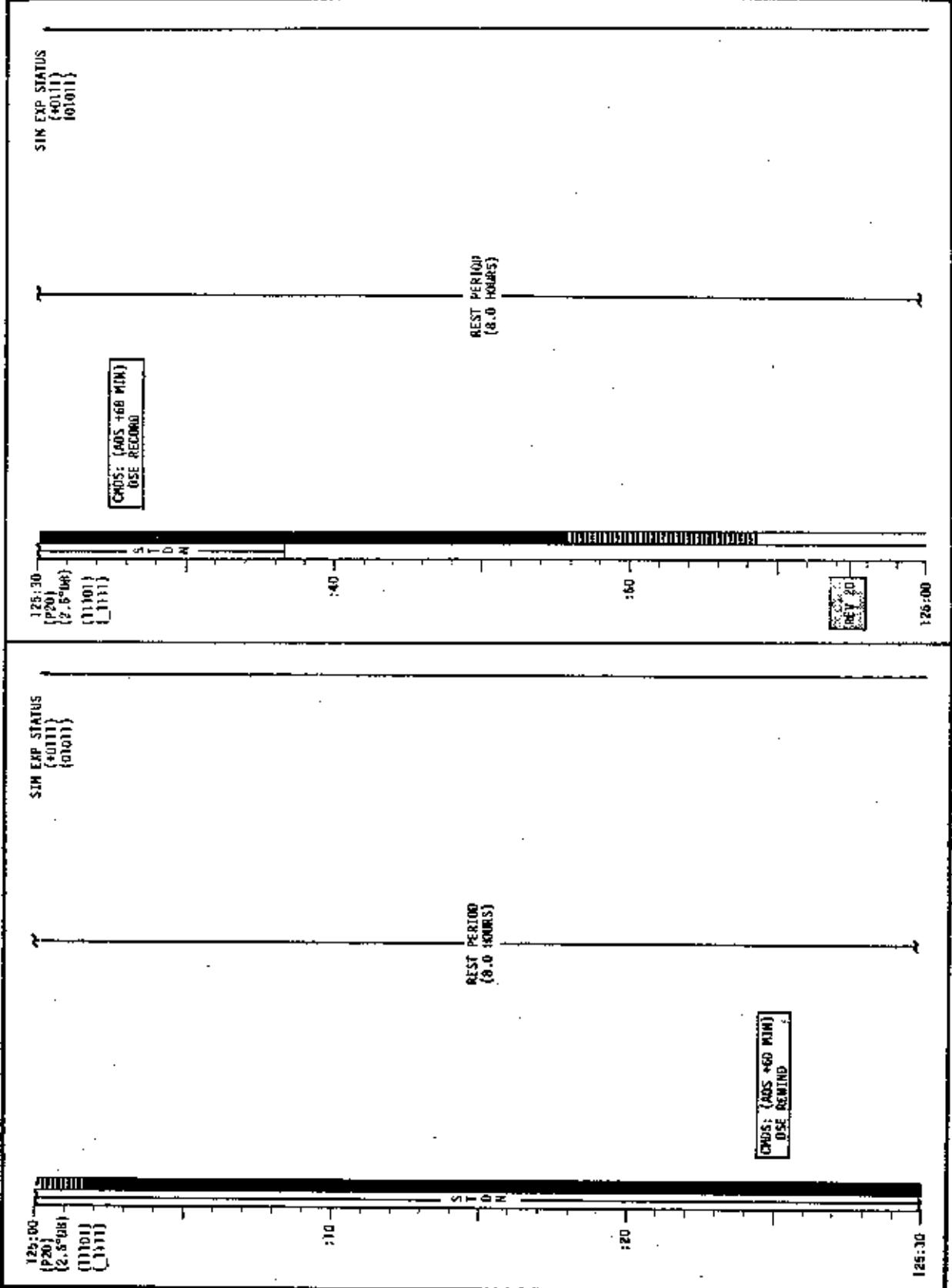


MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	125:00 - 126:00	6/19-20	3-150

FLIGHT PLANNING BRANCH

CSM REV 20

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (1276)	10/23/72	3-151

LM FLIGHT PLAN

LMP
CDR
NOTES

CDR

MCC-H

UPDATE TO LM
LIFT-OFF TIMES FOR
REVS 21-25

EVA-1 DEBRIEFING (CONT)

LOAD ETB

0253 CST

126:00

:10

:20

126:30

:40

:50

127:00

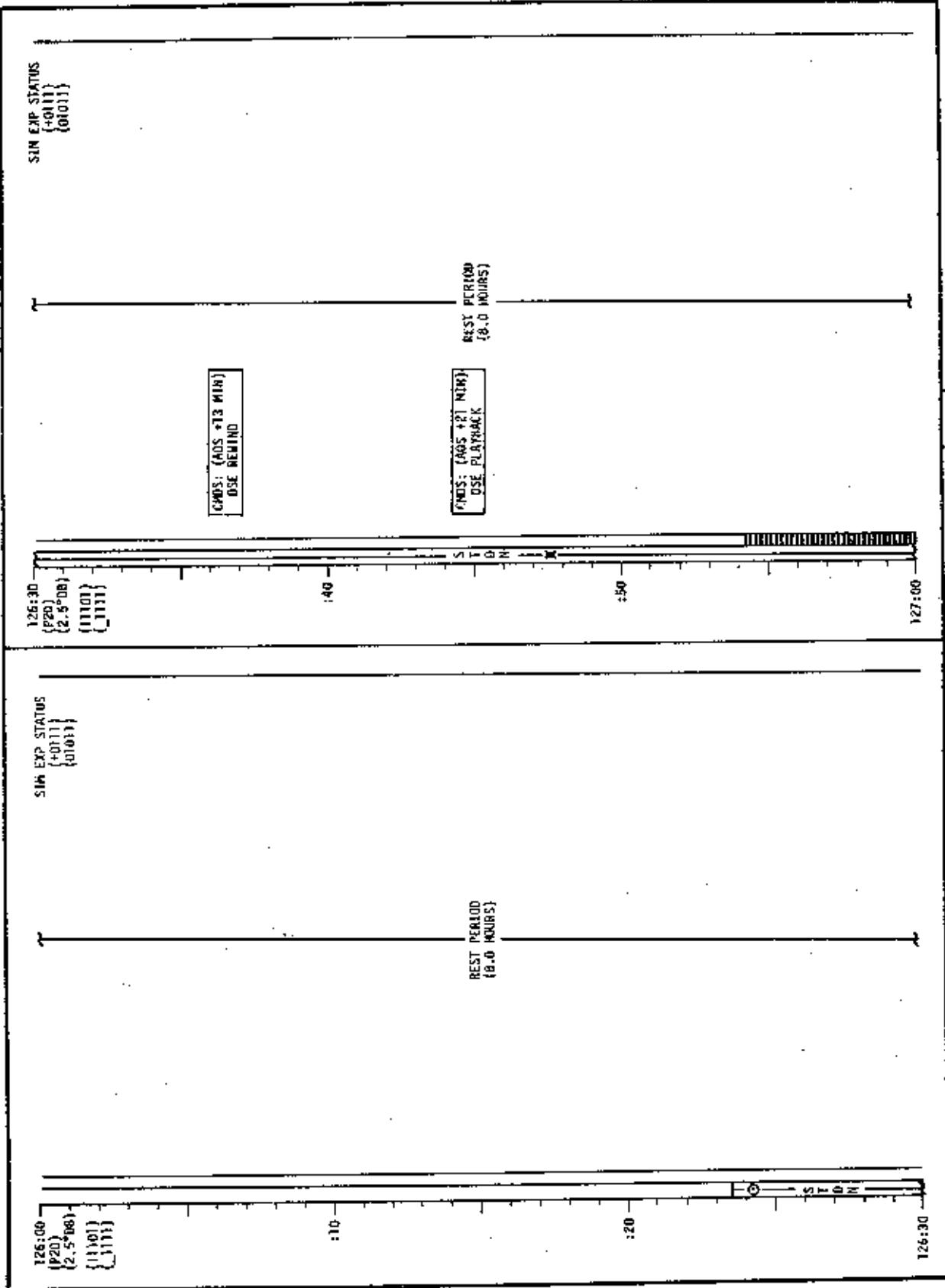
S T D N

EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	126:00 - 127:00	6/20	3-152

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FLIGHT PLAN	11/24/72	4-151

LM FLIGHT PLAN

MCC-4

CDR

NOTES

LMP

0353 CST
127:00

PSS RECHARGE

:10

:20

127:30

UPLINK TO LM
CSM S.V. (155:15)

:40

:50

128:00

S T D N

S T D N

PSSLEEP

BATTERY MET

ACTIVATE LGC & PWR AMP FOR
CLOCK RESET, UPDATE CSM
S.V., LGC TO STANDBY

PKS 210' LOS

BATS 1 & 2 - ON
BAT L (LMP) - OFF, (CDR) - ON
BATS 3 & 4 - OFF/RESET
PWR AMP - OFF ON MCC-H CUE

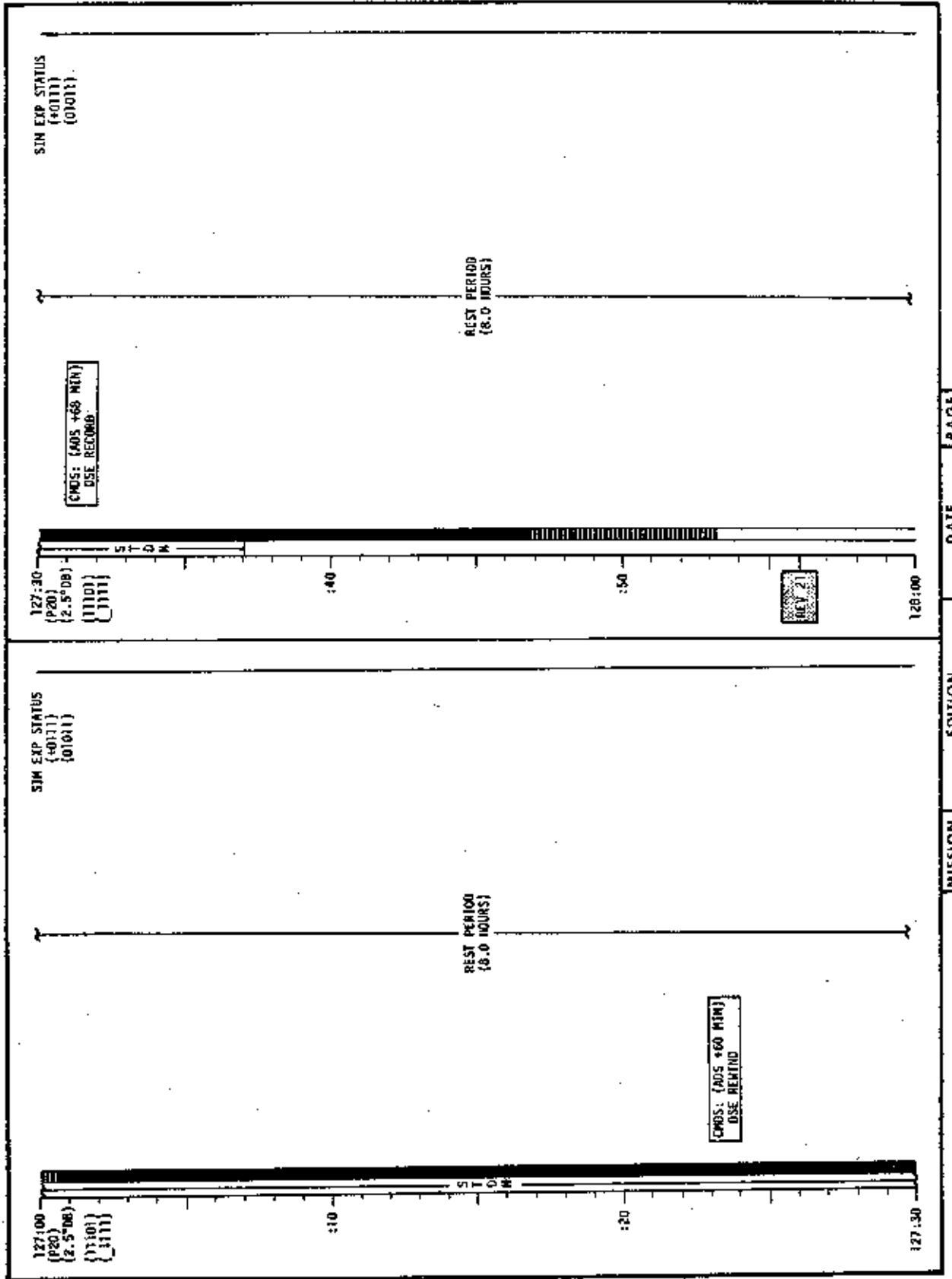
REST PERIOD
(8 HOURS)

CSM REV 21

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	127:00 - 128:00	6/20-21	3-154

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

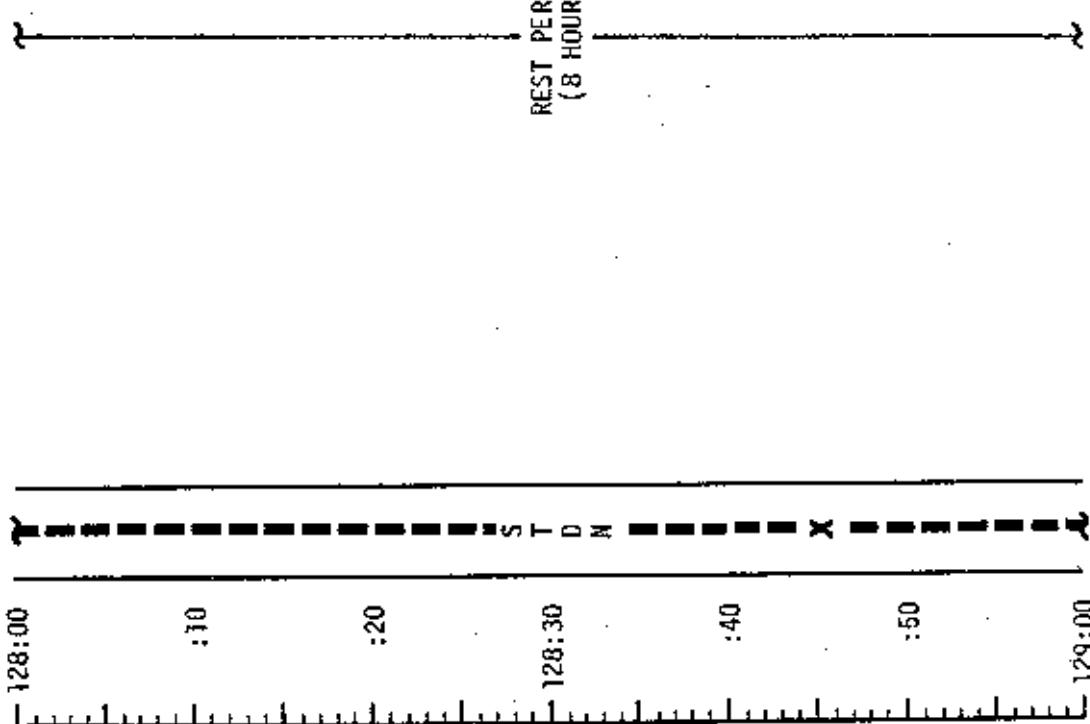
MCC-H

0453 CST

LMP

CDR

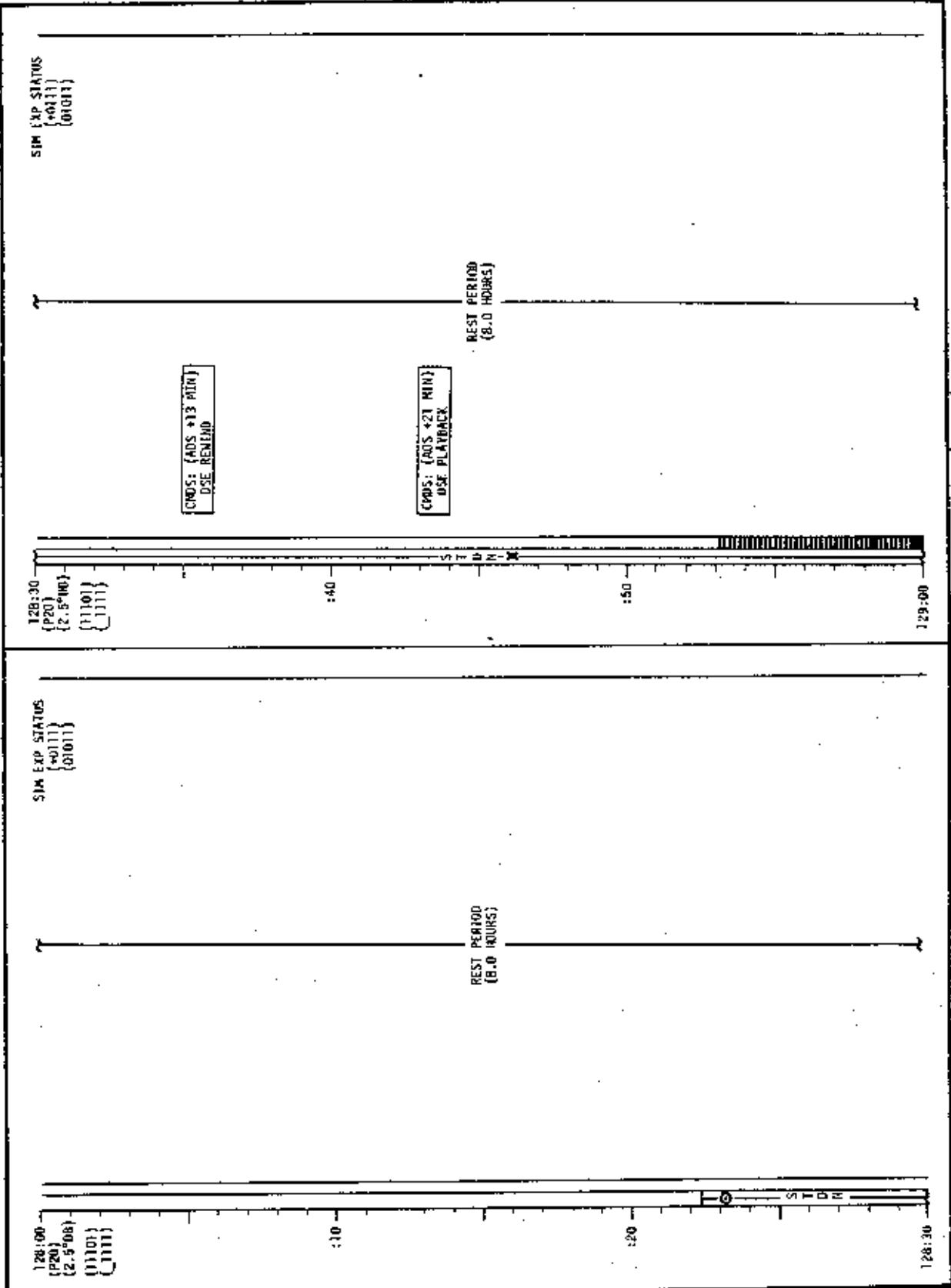
NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	128:00 - 129:00	6/21	3-156

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-157

LM FLIGHT PLAN

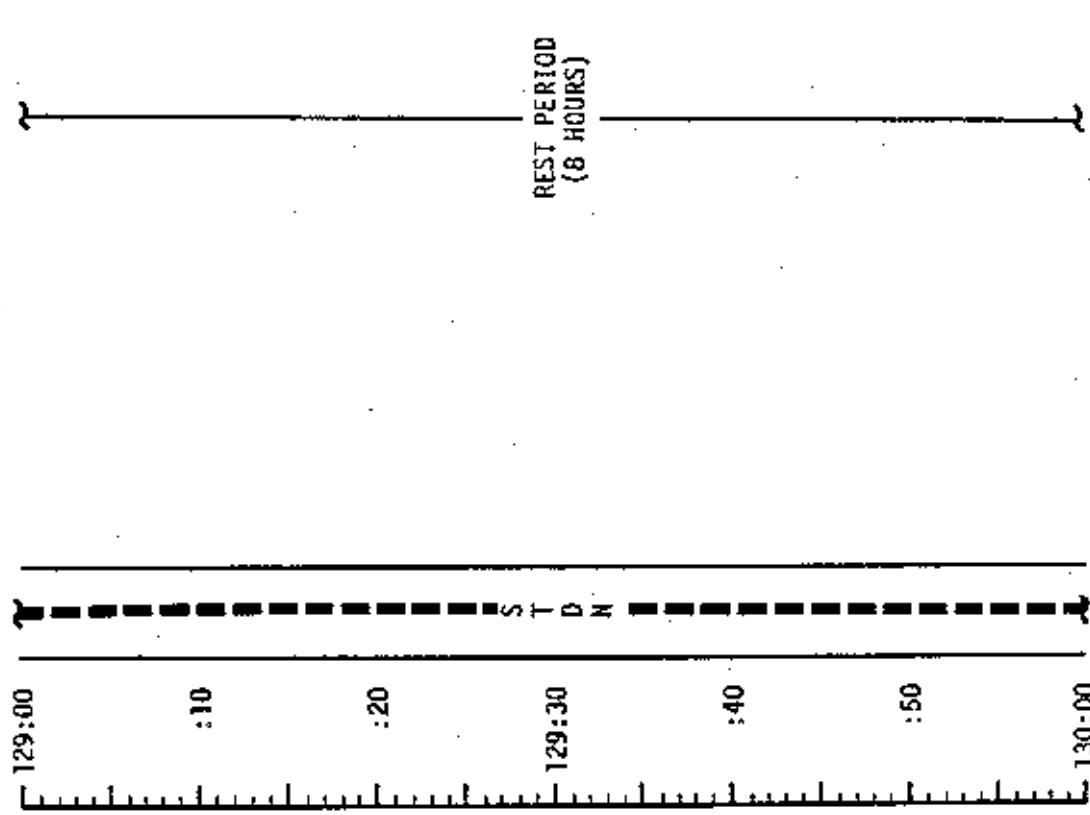
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0553 CST

8

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NOTES

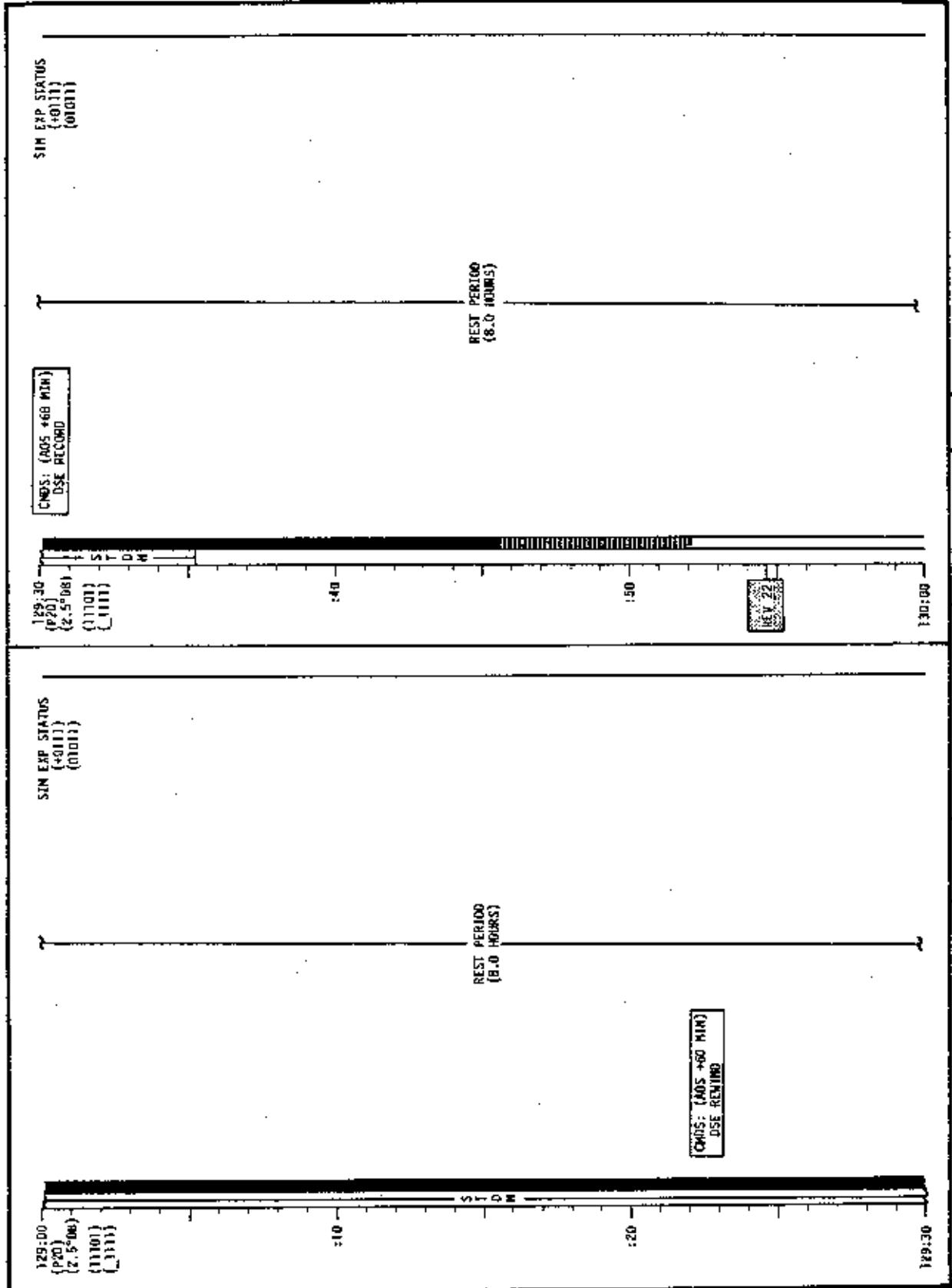


REST PERIOD
(8 HOURS)

CSM REF 22

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
Apollo 17	FINAL (12/6)	10/23/72	129:00 - 130:00	6/21-22	3-158

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL	10/23/72	3-159

LM FLIGHT PLAN

CDR

NOTES

0653 CST

130:00

:10

:20

130:30

:40

:50

131:00



ACC-H

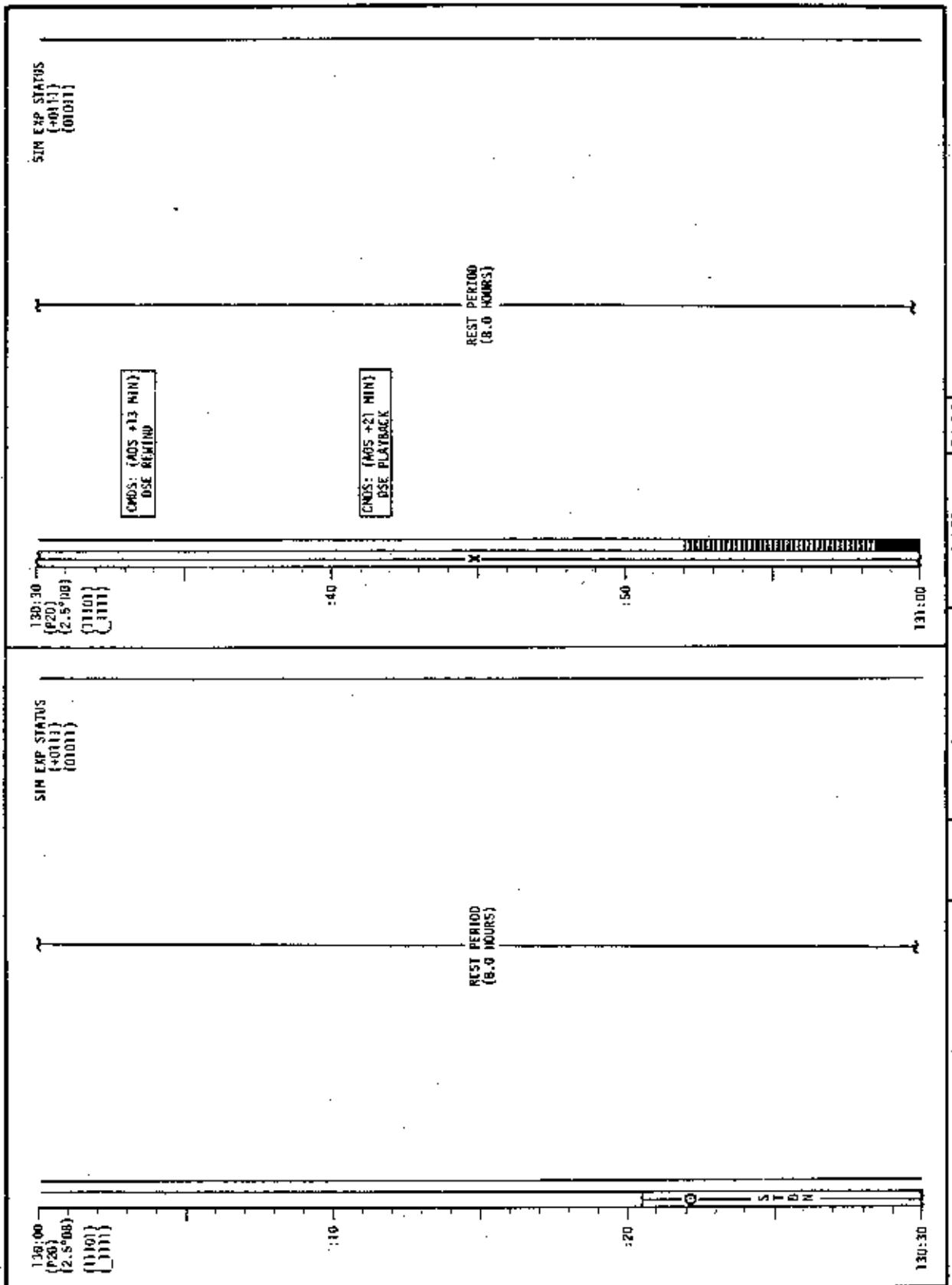
LMP

REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	130:00 - 131:00	6/22	3-160

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

NOTES

LMP

0753 CST
131:00

:10

:20

131:30

:40

:50

132:00

REST PERIOD
(8 HOURS)

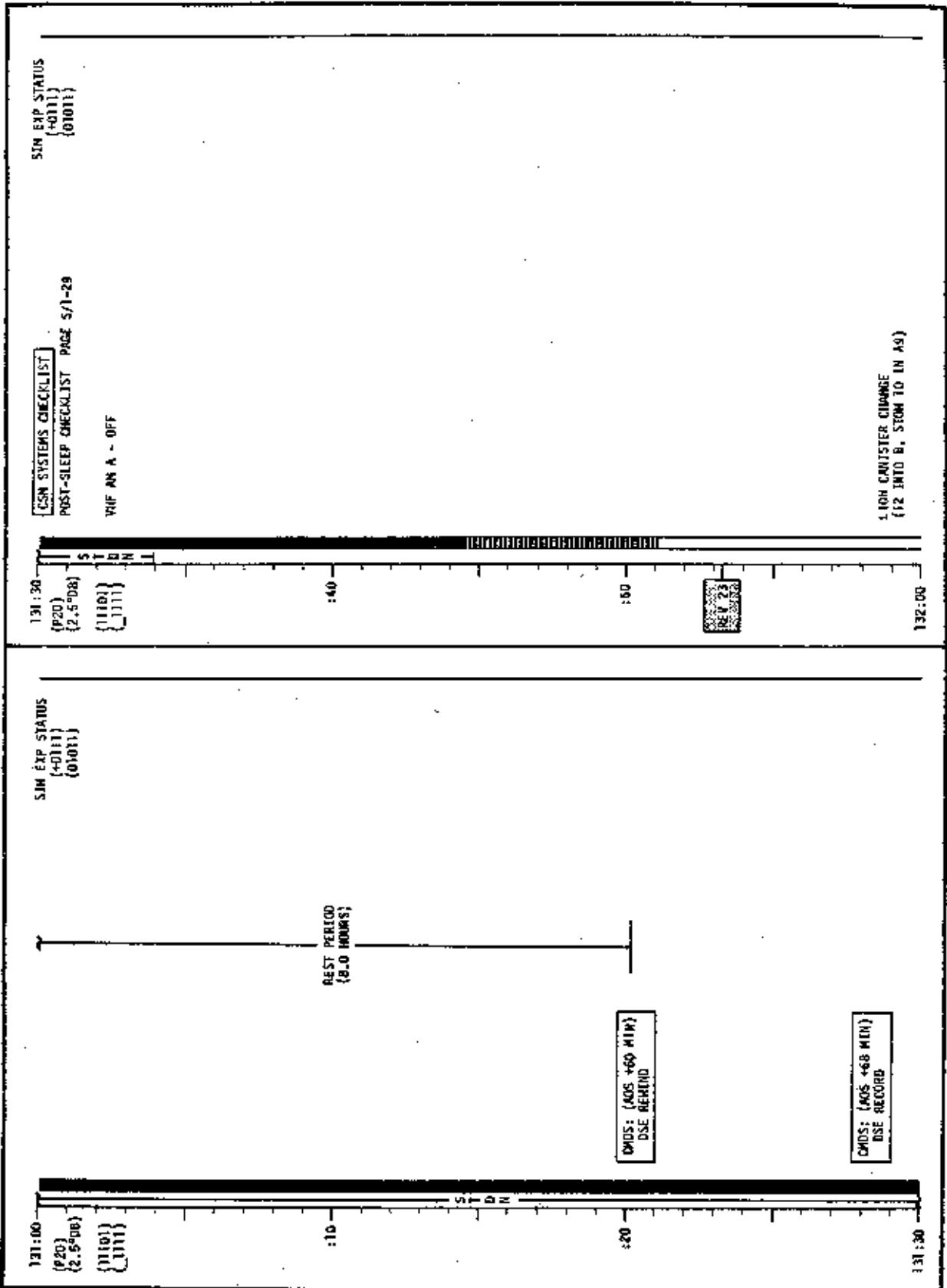
CSM REV 23

MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	131:00 - 132:00	6-7/22-23	3-162

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

NOTES

LMP

0853 CST
132:00

:10

:20

132:30

REST PERIOD
(8 HOURS)

:40

:50

133:00

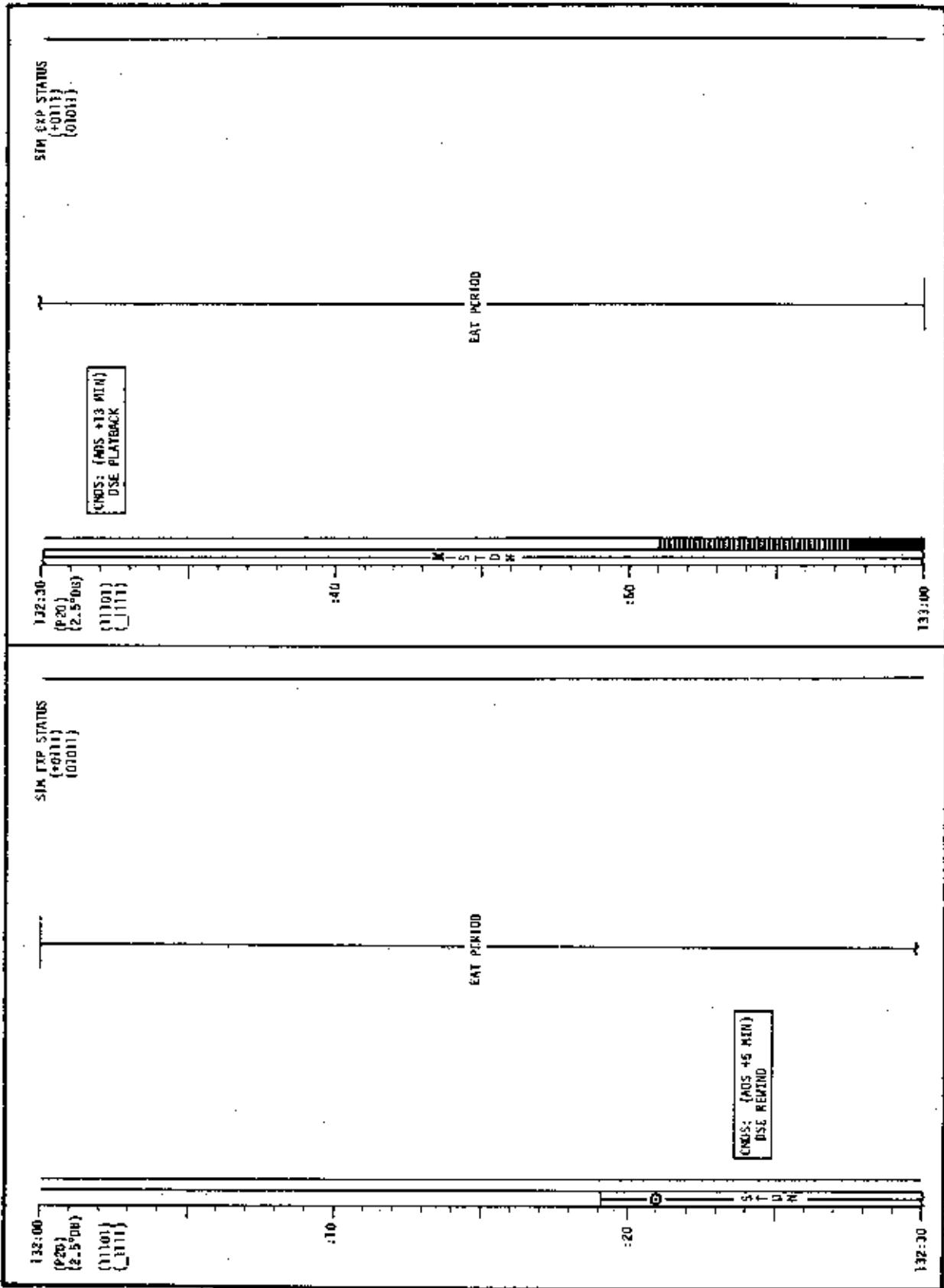
MCC-H

S T D N X

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	132:00 - 133:00	7/23	3-164

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



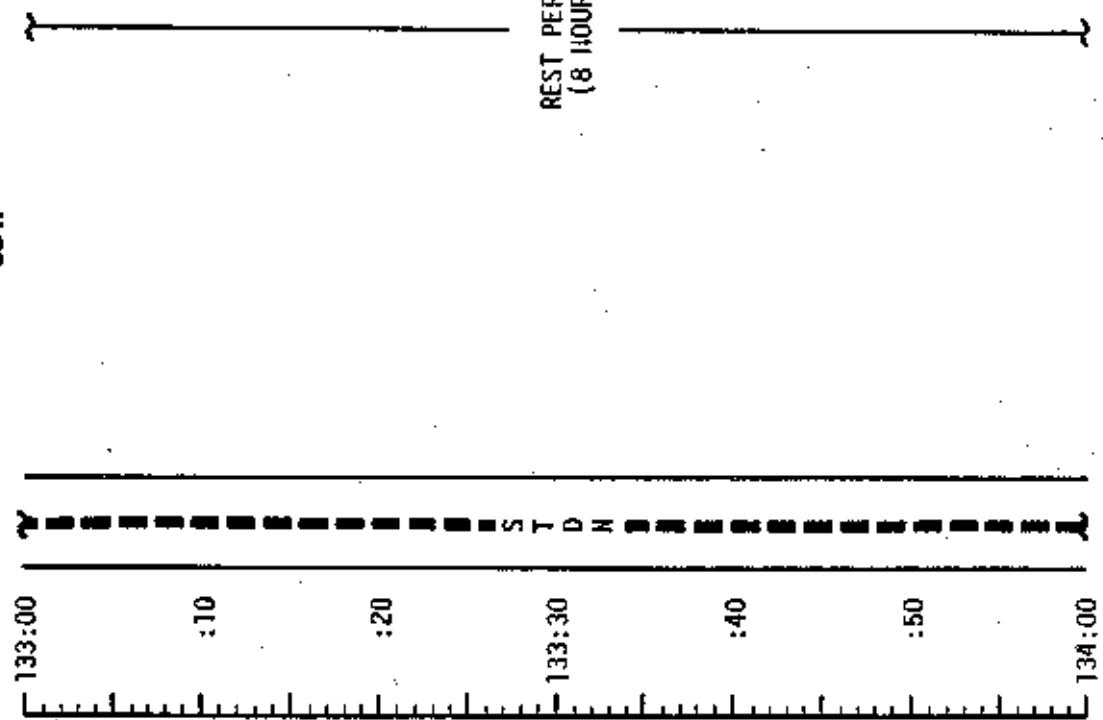
LM FLIGHT PLAN

CDR

NOTES

LMP

MCCM 0933 CST



REST PERIOD
(8 HOURS)

CSM REV 24

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	133:00 - 134:00	7/23-24	3-166

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

133:00
 (P20)
 (2.5°/0)
 (1101)
 (0111)

START NEW URINE COLLECTION PERIOD
 TERMINATE JET-ON MONITOR
 P3D
 V21N26 (000000)
 CMC MODE = FREE
 PS2 (OPTION 3)
 (LOG SITE ORIENT)

REPORT: GYRO TORQUEING
 ANGLES

P20
 Y22N79 (+000.50)
 CMC MODE = AUTO
 GOC ALIGN
 NO/LA COVER = OPEN
 NC = EXIT
 (0.5°/0)
 :10

SIM EXP STATUS
 (+0111)
 (01011)
 SIM EXP STATUS
 (+1111)
 (01011)

(0.5°/0B)

0

N21:

MDS:

MIS3:

X -----
 Y -----
 Z -----
 GE -----

UPDATE:
 CONSUMABLES STATUS
 FLIGHT PLAN
 SIM EXP STATUS
 ZODIACAL LIGHT PHOTO PAGE
 INFLINK:
 CSM S.V.
 CMS: (ADS +60 MIN)
 OSE RUMID.

INFLINK:
 CSM S.V.
 CMS: (ADS +60 MIN)
 OSE RUMID.

ZODIACAL LIGHT, RED FILTER, PAGE N/2-13
 HAG (XX)
 CSM EXP/EVA CHECKLIST
 ZODIACAL LIGHT - (SUMRISE - 15 MIN)

CMS: (ADS +60 MIN)
 OSE RUMID
 T-START: (SUMRISE - 15 MIN)
 VERIFY USE TAPE MOTION (HER/RED/FWD/CMD RESET)

ZODIACAL LIGHT

133:30
 (P20)
 (0.5°/0)
 (1101)
 (0111)

140

SET HEI: MAN, MODE P =10, Y =25, FOR ADS

LA = ON
 IMAGE MNW = ON
 AC = OM (16874)
 IMAGE MNW = INER (BP +4 STEPS)/OM

:50

RET 2

ZODIACAL LIGHT PHOTO PAGE(SR)

 (SUMRISE - 15 MIN)

134:00

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-167

LM FLIGHT PLAN

CDR

NOTES

1053 CST

134:00

MCC-H

:10

:20

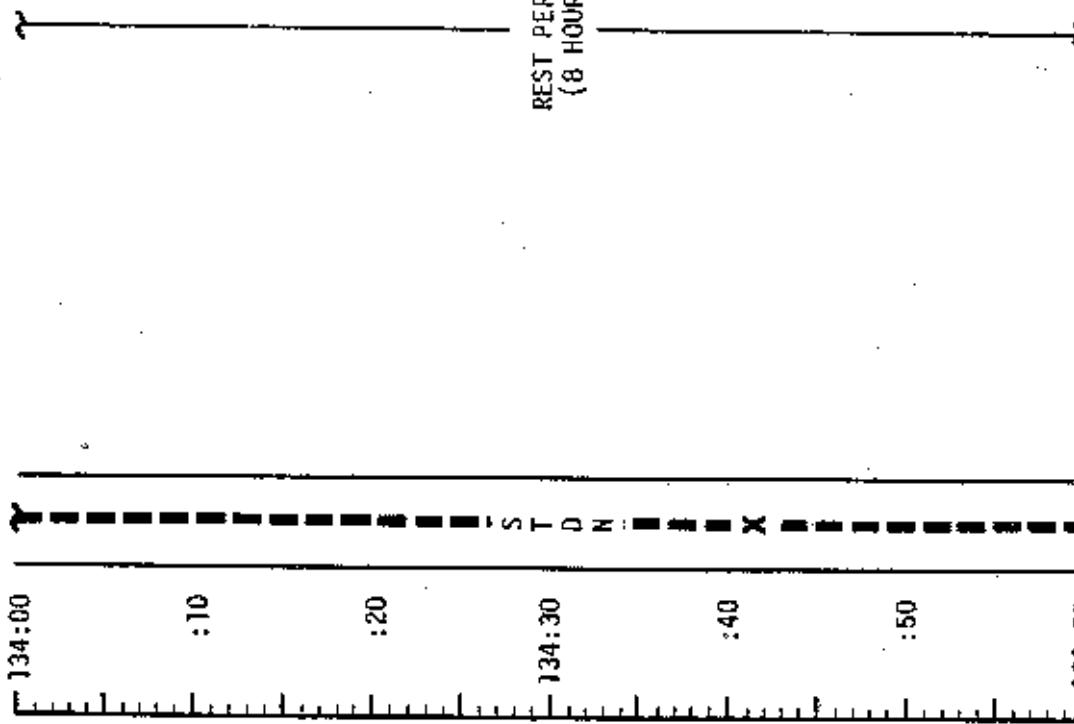
134:30

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135:00

LMP

REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	134:00 - 135:00	7/24	3-168

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

MISSION	EDITION	DATE	PAGE
Apollo 17	FINAL (17/6)	17/6/72	1
		17/6/72	2
		17/6/72	3
		17/6/72	4
		17/6/72	5
		17/6/72	6
		17/6/72	7
		17/6/72	8
		17/6/72	9
		17/6/72	10
		17/6/72	11
		17/6/72	12
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		17/6/72	135

SIM EXP STATUS
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 {02011}

SIM EXP STATUS
 {P20}
 {0.5MB}
 {1101}
 {1111}

CUE: (AOS +7 MIN)
 OSE PLAYBACK

LS OPERATE - STBY (VERIFY)
 RCRB - ON
 RADAR - ON
 RCRB - OFF
 HODE - UHF

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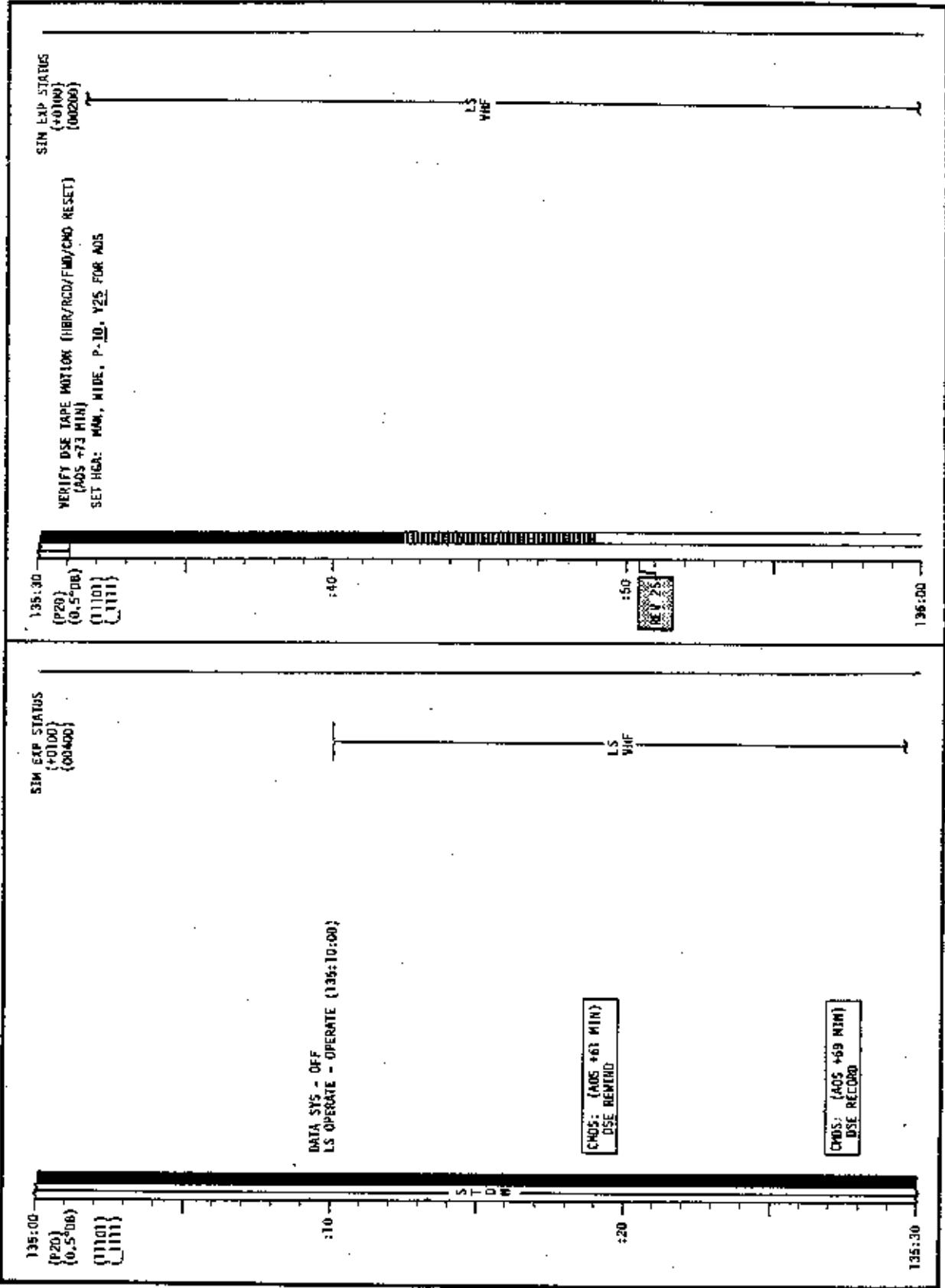
:1870

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</div

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
CSM-1	REV 1	1969-07-15	1

LM FLIGHT PLAN

CDR

NOTES

1253 CST

136:00

POST SLEEP (CONT)

MCC-H

UPDATE TO LM
LIFT-OFF TIMES FOR
REVS 26-32

:10

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136:30

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137:00

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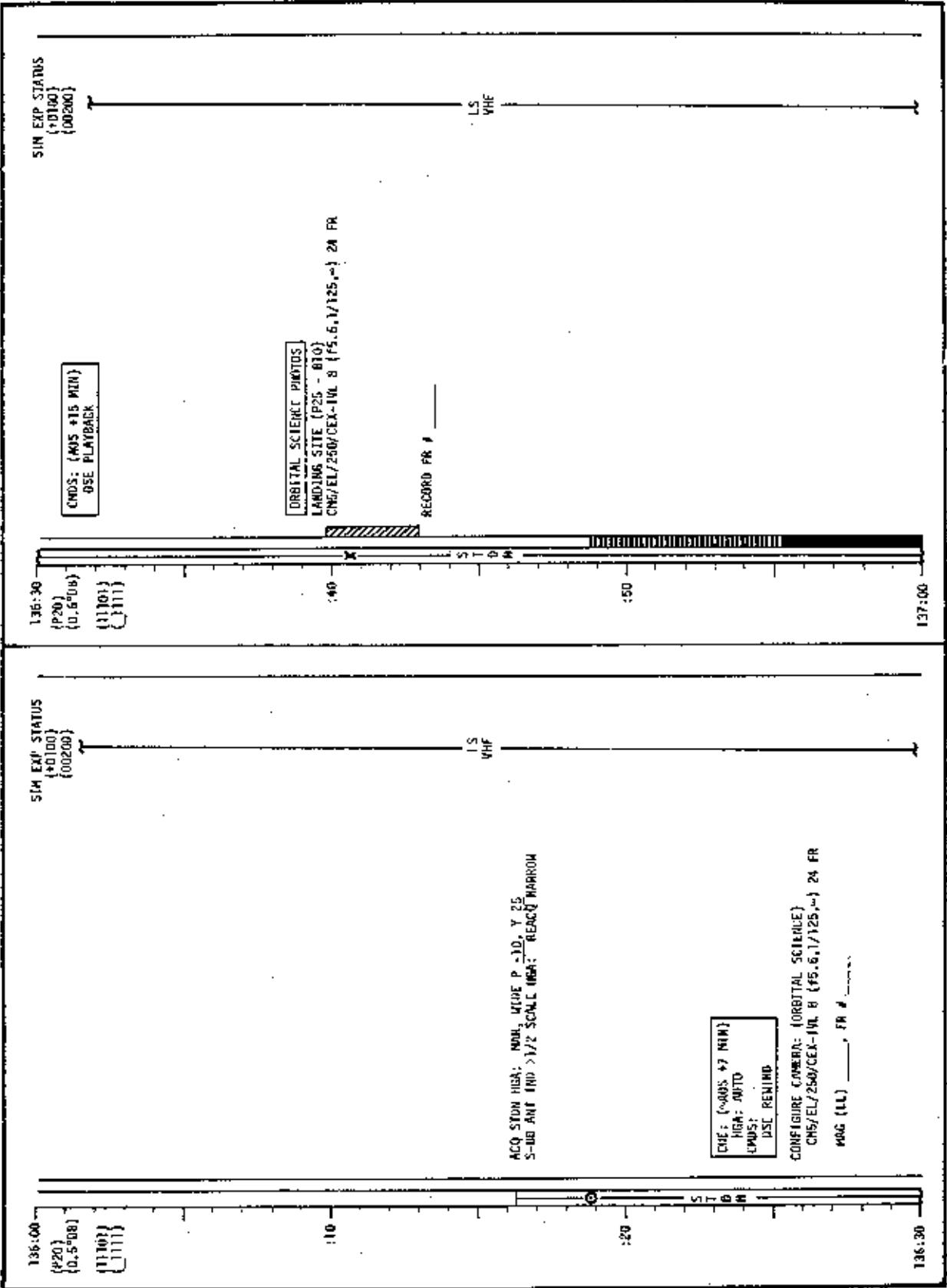
EAT PERIOD

GDS 210¹ AOS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	136:00 - 137:00	7/25	3-172

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

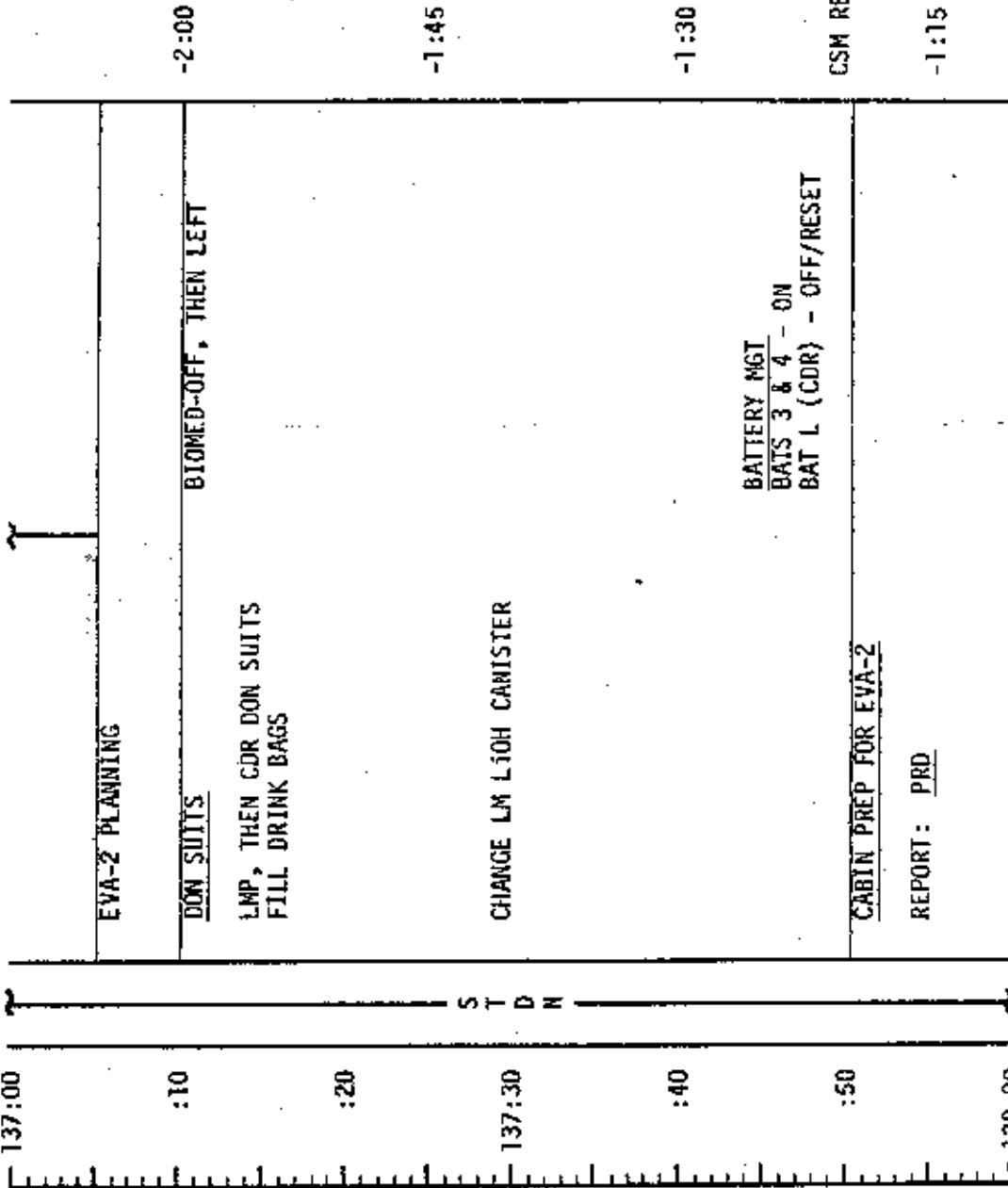
MCCU

1353 CST
137:00

8

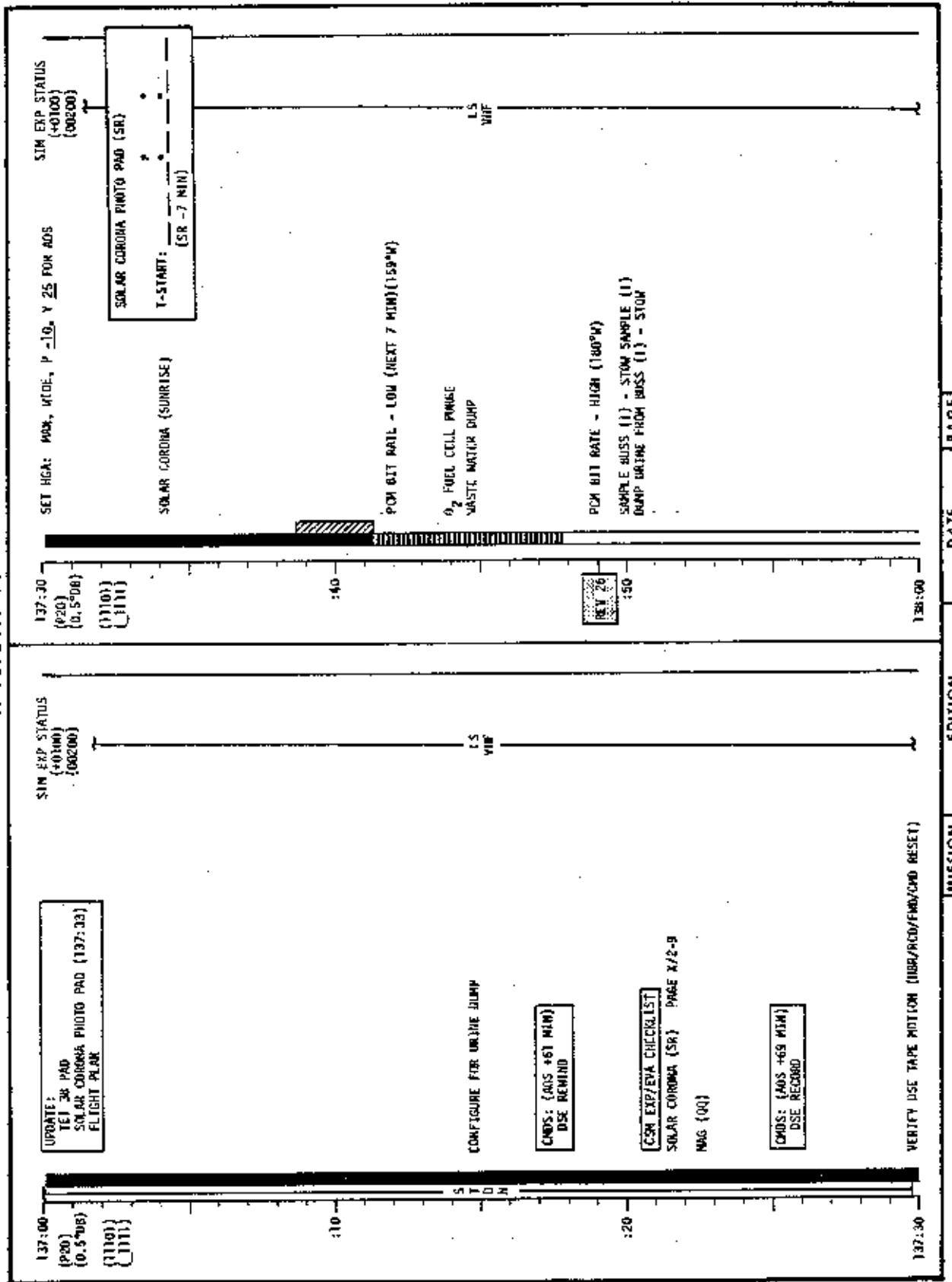
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NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	137:00 - 138:00	7/25-26	3-174

CSM FLIGHT PLAN

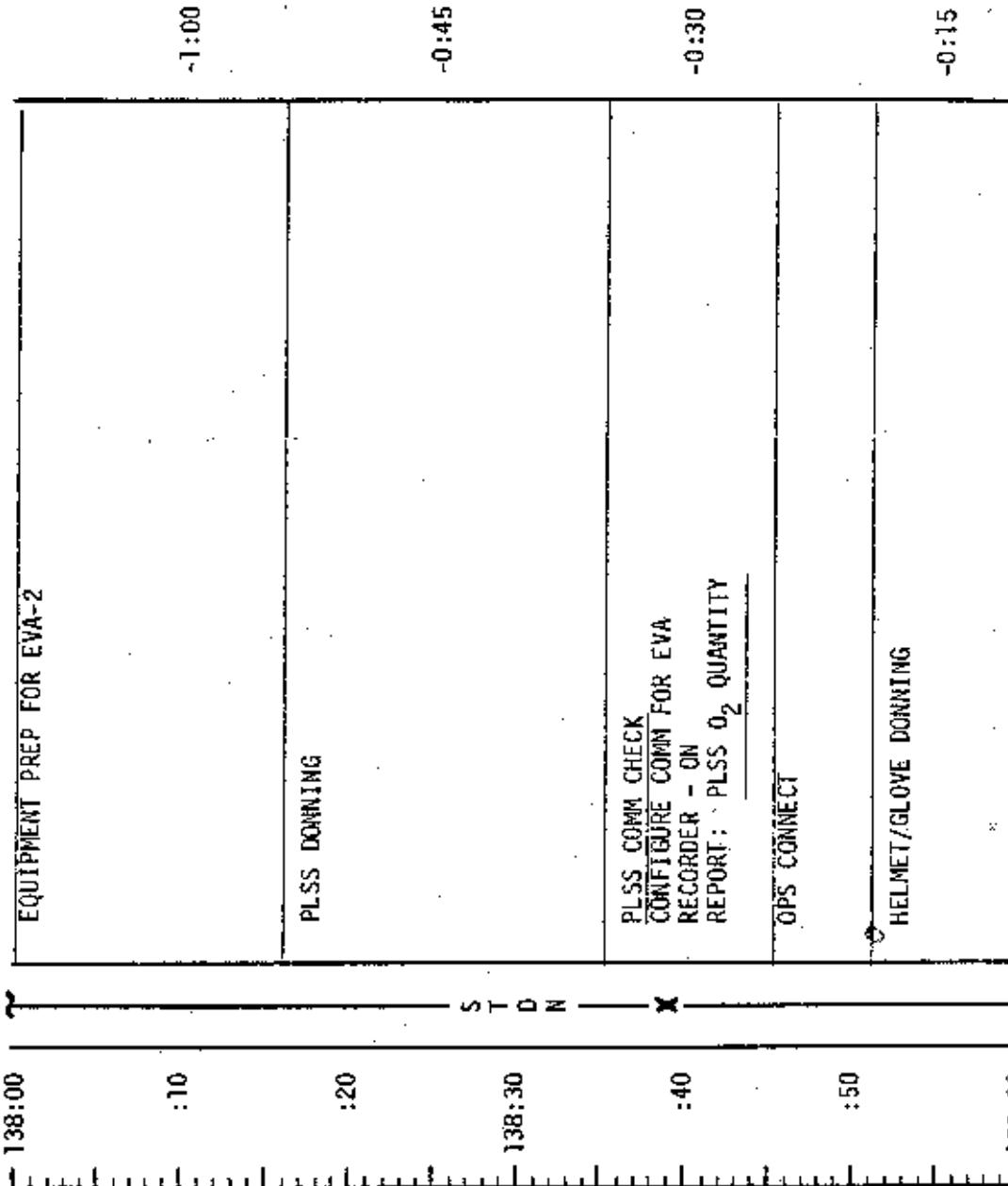


LM FLIGHT PLAN

CDR

NOTES

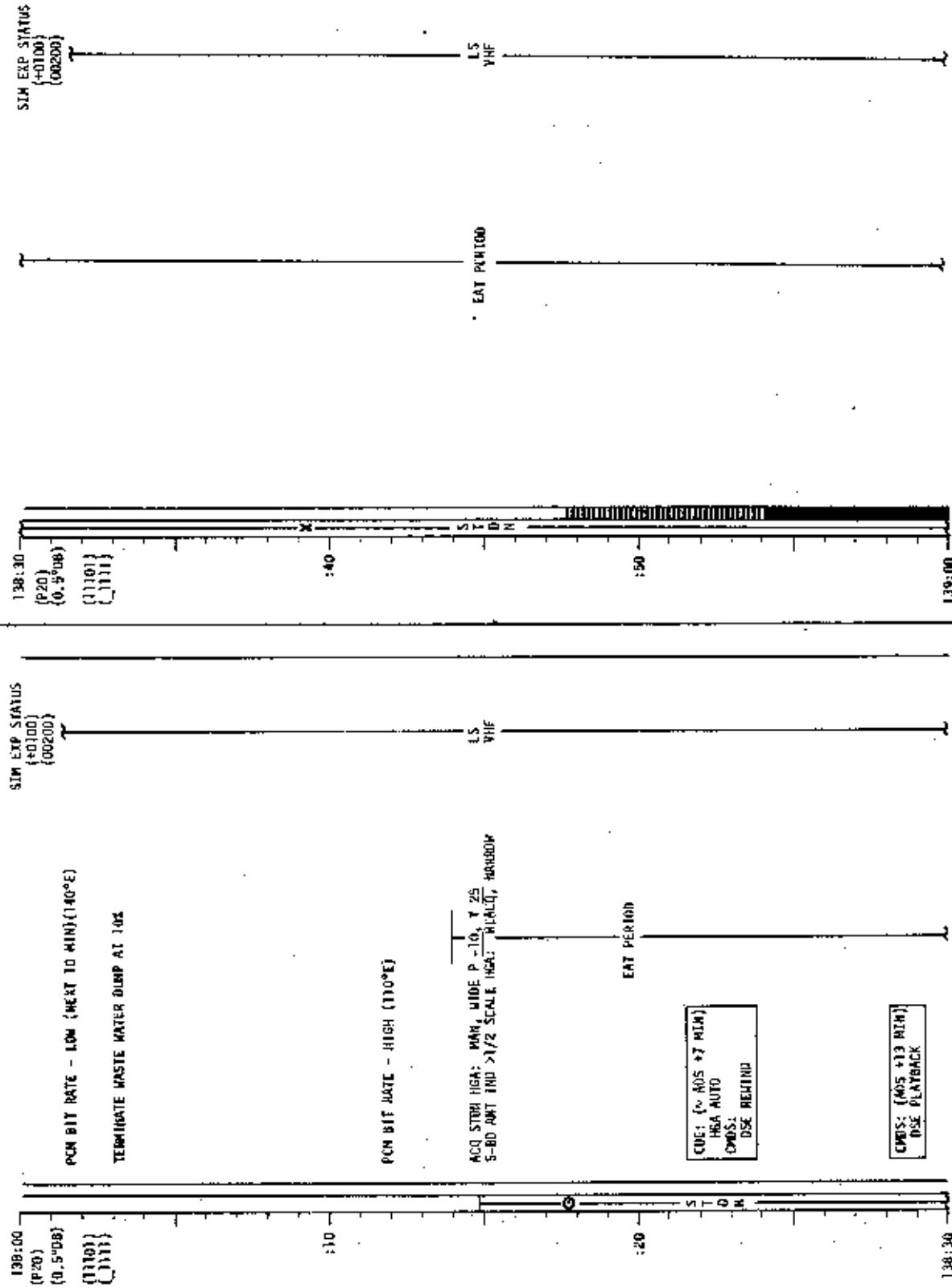
1453 CST
MCC-H



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	13B:00 - 139:00	7/26	3-176

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	F14A (12/6)	10/17/72	3-177

LM FLIGHT PLAN

CDR

NOTES

1553 CST

139:00

GO/NO-GO FOR
CABIN DEPRESS

:10

PRESSURE INTEGRITY CHECK

CABIN DEPRESS
START WATCHES @ 3.5 PSIA
FINAL EVA PREP

:20

EGRESS

ASSIST CDR

+0:10

DESCEND TO SURFACE

RECORDER - OFF
EGRESS, CLOSE HATCH
DESCEND TO SURFACE
LRV EQUIPMENT PREP

+0:20

POWER LCRU

SRC-2 EQUIPMENT PREP

PHOTO PAN

+0:30

GEOLOGICAL PREP

GEOLOGICAL PREP

+0:40

LRV POWER UP

SEP POWER UP

+0:50

DRIVE TO SEP SITE

+0:50

0:00/START EVA-2

CSM REV 27

+0:40

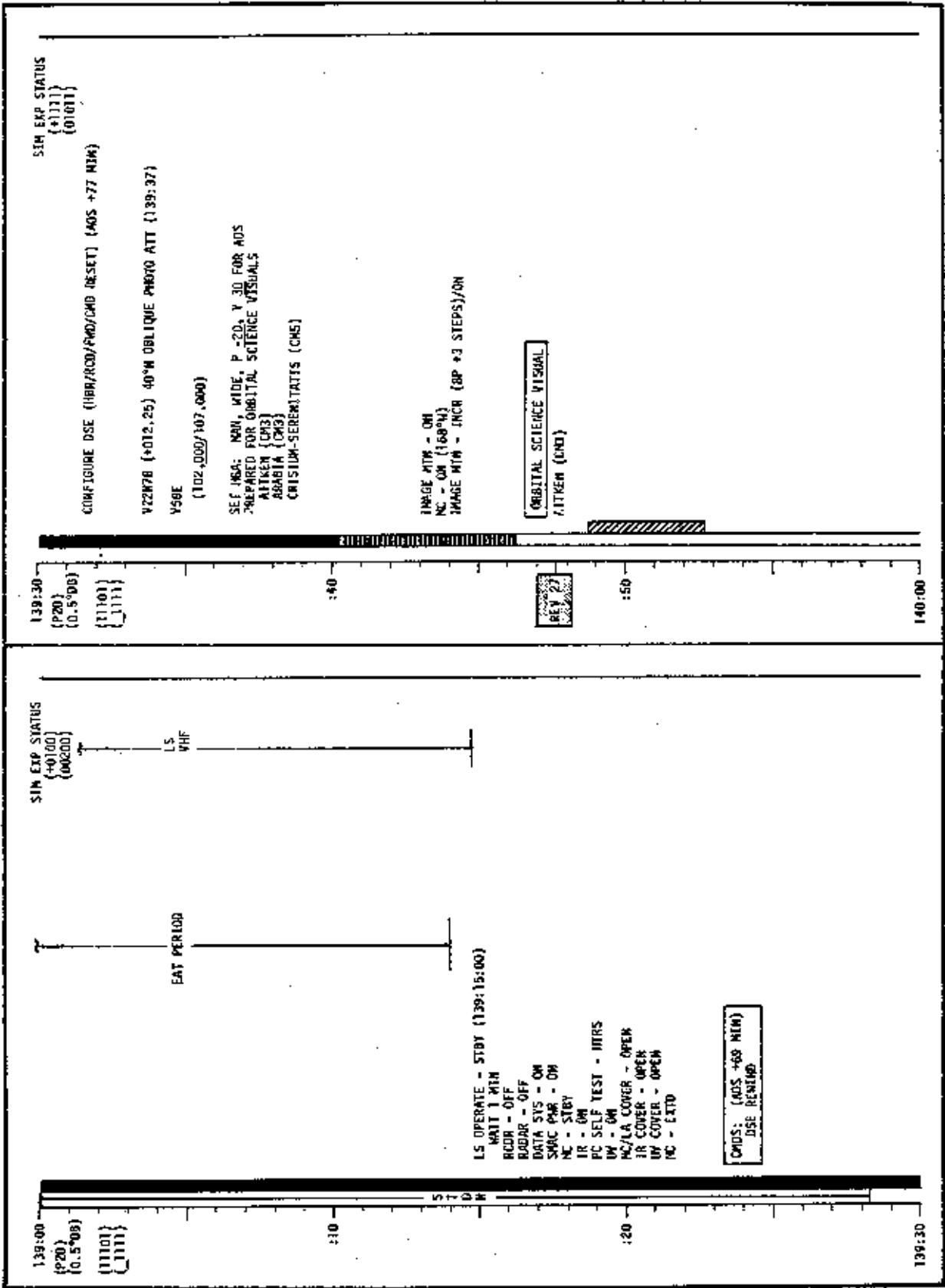
SEP POWER UP

+0:50

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	139:00 - 140:00	7/26-27	3-178

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
CSM-11	C	1971 JUN 17	1

LM FLIGHT PLAN

CDR

1653 CST

MCC-H

NOTES

+0:50

DRIVE TO STATION 2
EP DEPLOY EN ROUTE
LRV SAMPLES EN ROUTE

:10

:20

140:30

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141:00

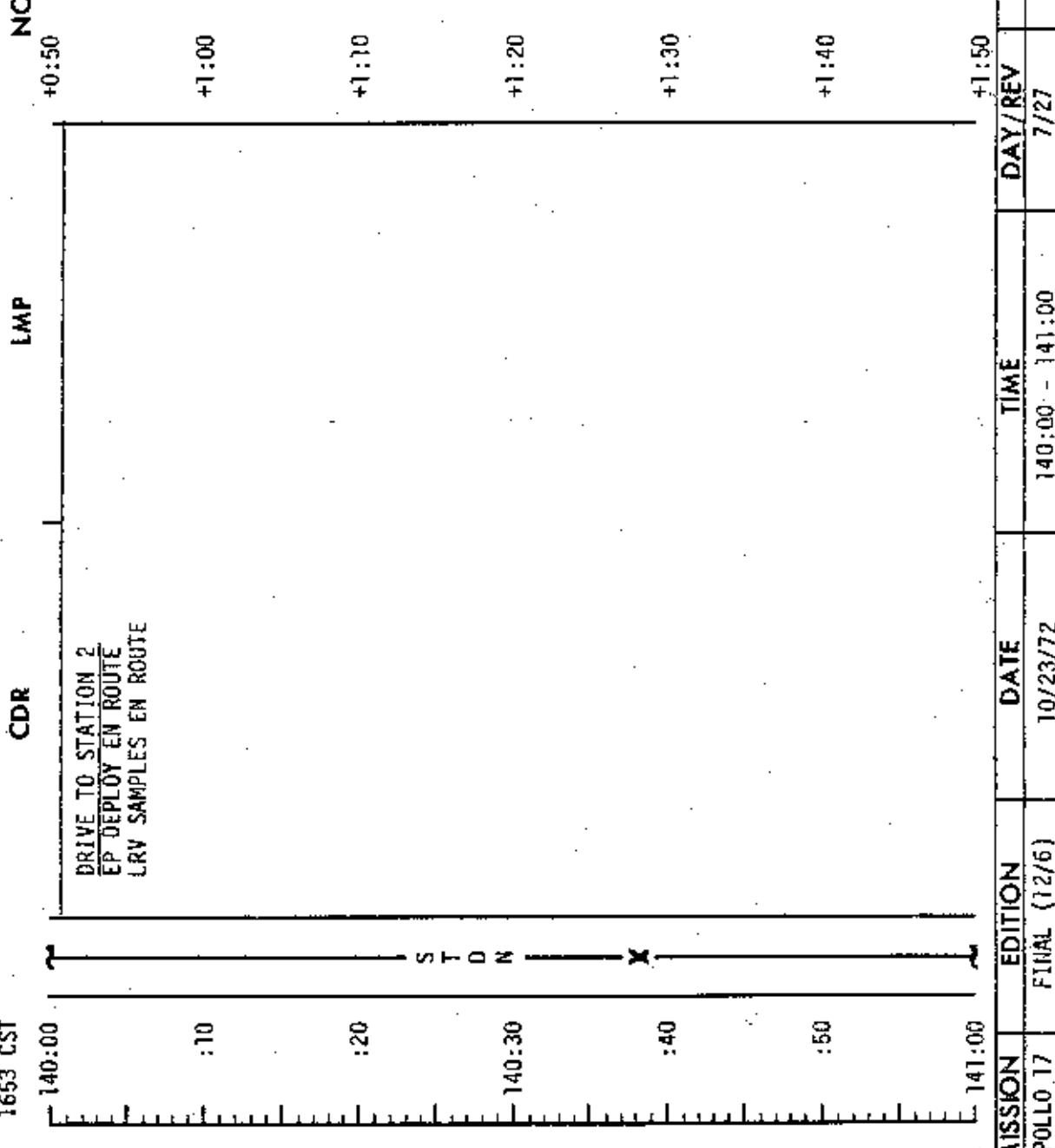
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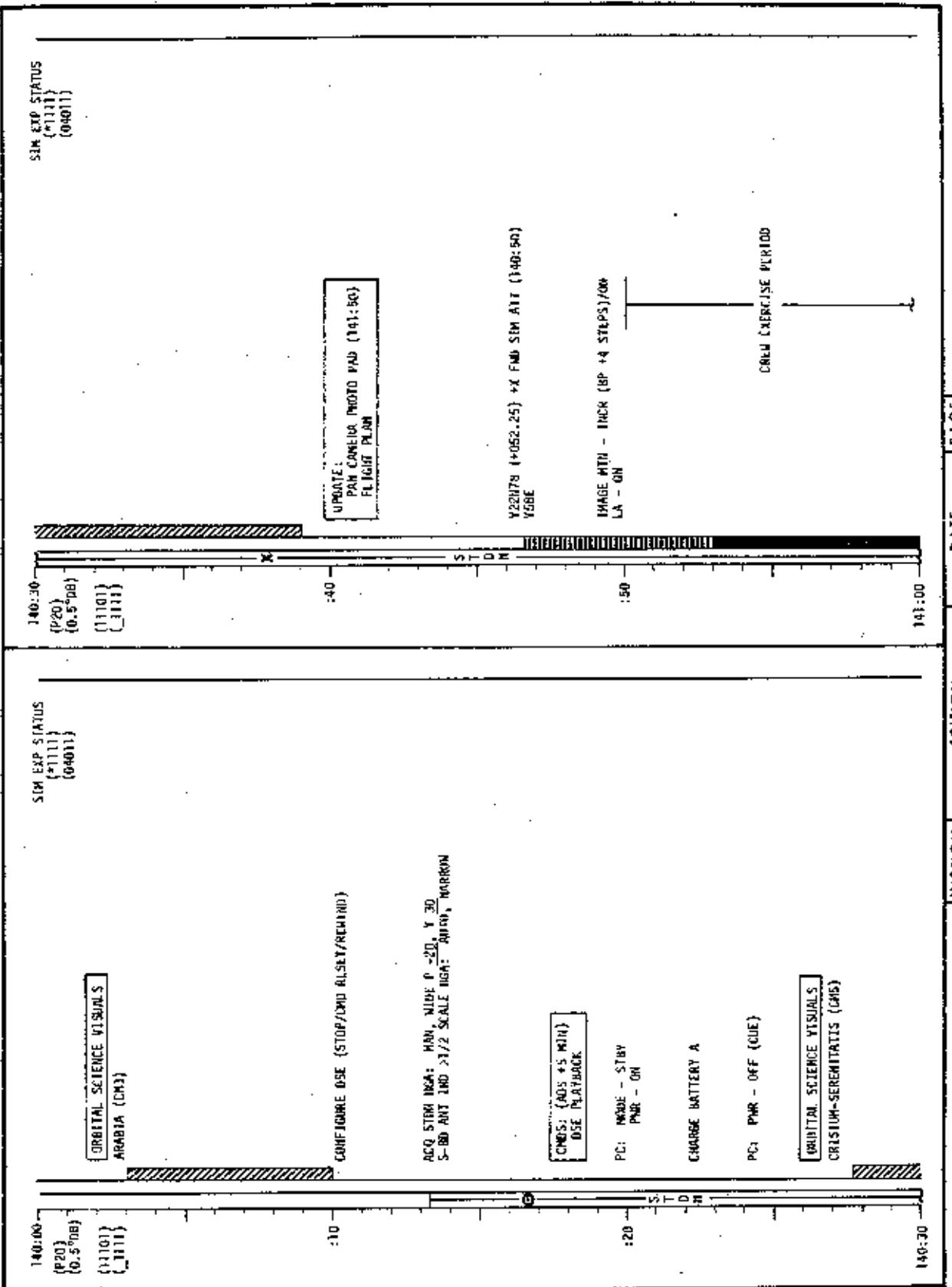
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MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	140:00 - 141:00	7/27	3-180

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

LMP

1753 CST

MCC-H

DRIVE TO STATION #2 (CONT)

+1:50

STATION #2
GEOLOGICAL OBSERVATIONS & PHOTOS
POLARIZATION PHOTOS
RAKE SAMPLE
CORE SAMPLE
DOCUMENTED SAMPLES
PHOTO PANS

+2:00

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142:00

+2:10

+2:20

+2:30

+2:40

+2:50

CSM REV 28

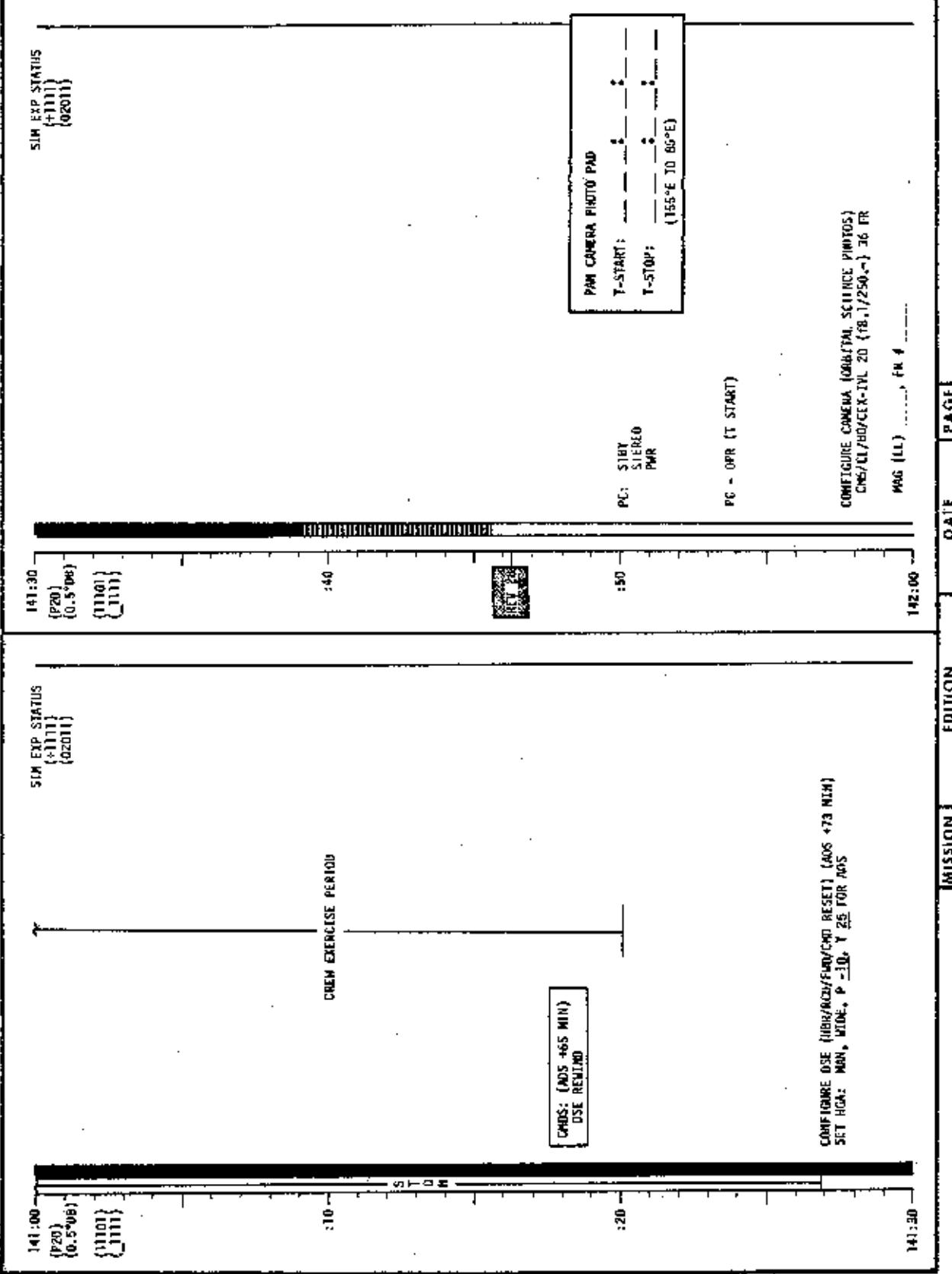
7/27-28

3-182

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	141:00 - 142:00	7/27-28	3-182

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (126)	10/23/72	J-183

MCC-H

LM FLIGHT PLAN

CDR

LMP

NOTES

1853 CST

142:00

DRIVE TO STATION #3
LRV SAMPLES EN ROUTE

:10

:20

142:30

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143:00

+3:00

+3:10

+3:20

+3:30

+3:40

+3:50

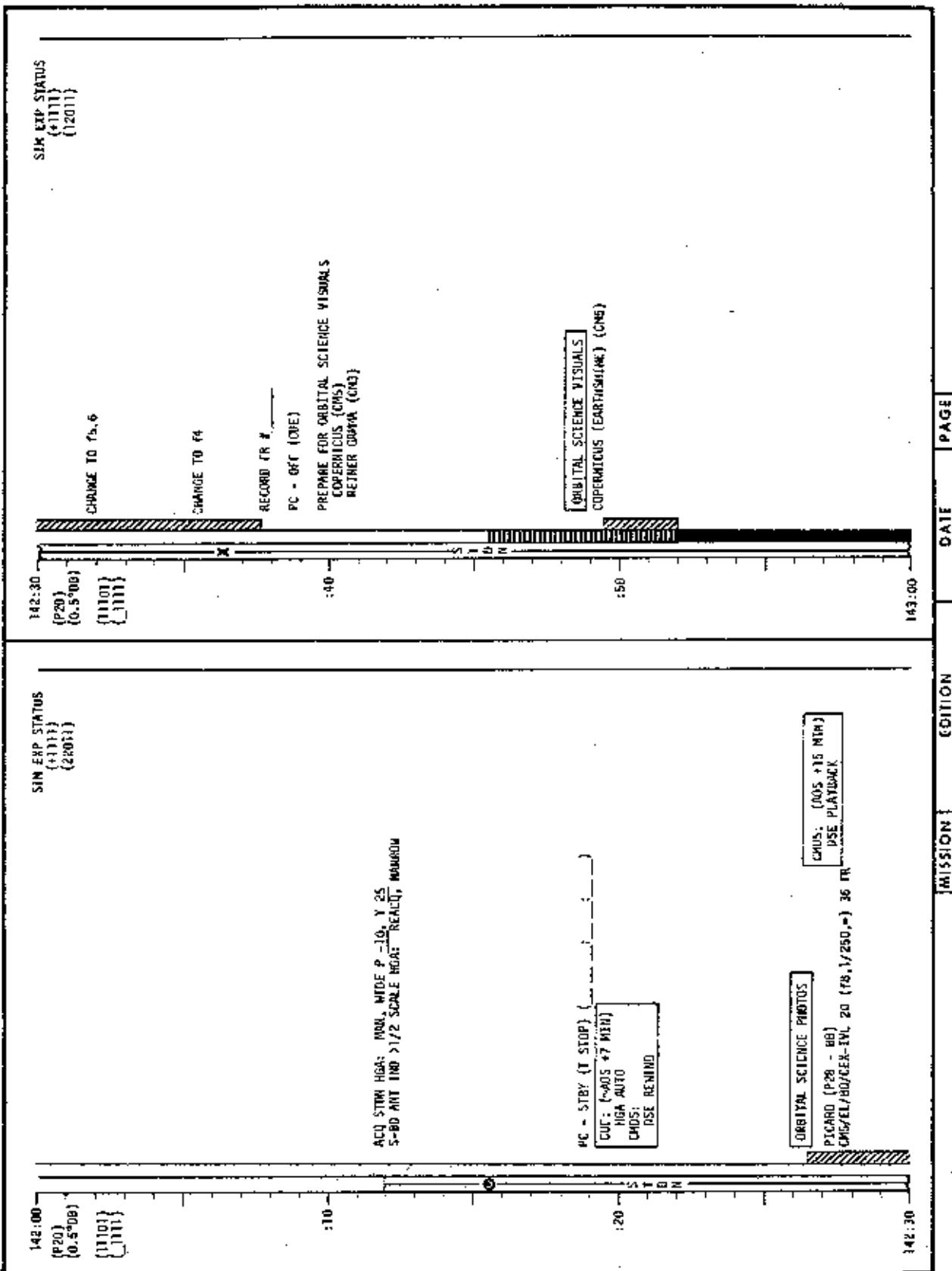
STATION #3
GEOLOGICAL OBSERVATIONS & PHOTOS
DOCUMENTED SAMPLES
PHOTO PAN

S T D T N - X - Y - Z -

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	142:00 - 143:00	7/28	3-184

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

1953 CST

MCC-H

CDR

LMP

NOTES

STATION #3 (CONT)

+3:50

143:00

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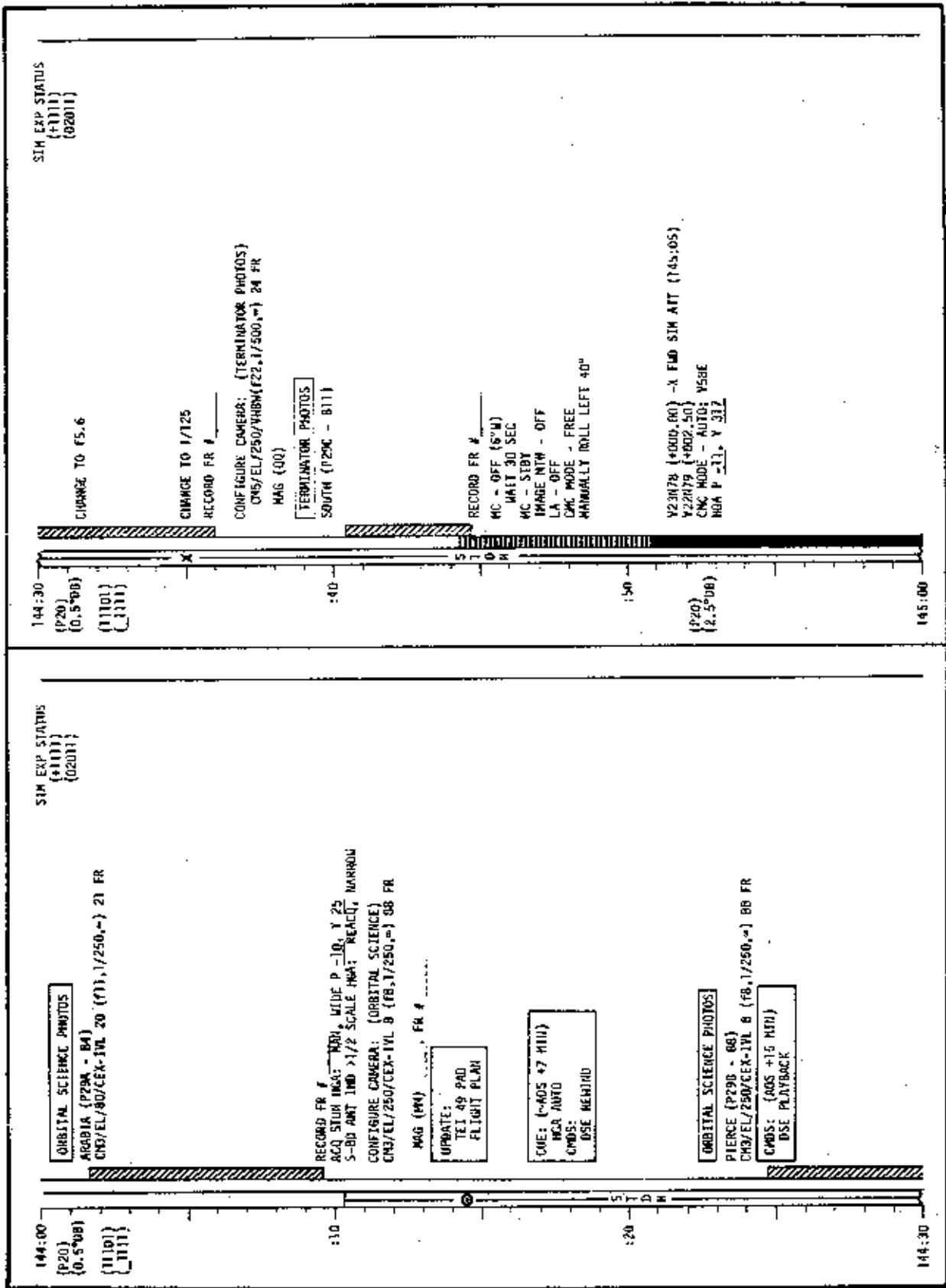
:50

CSM FLIGHT PLAN

<p>143:00 (P20) (0.5°08) (11101) (11111)</p> <p>ORBITAL SCIENCE VISUALS</p> <p>RETRIEVE GAMMA (CMG)</p>	<p>SIM EXP STATUS (+1111) (02011)</p> <p>SIM EXP STATUS (P20) (0.5°08) (11101) (11111)</p>	<p>143:30</p> <p>:40</p> <p>CONFIGURE CAMERA: (ORBITAL SCIENCE) CM3/EL/BG/CER-VL 20 (f11.1/250,-) 21 FR WAS (111) _____, FR 4 _____</p>	<p>143:30</p> <p>:50</p>												
<p>L10H CARRIER CHARGE (13 INTO A, STOW 1, IN AS)</p>	<p>P52 IMU RECALIGN</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>M71:</td> <td>-----</td> </tr> <tr> <td>M05:</td> <td>-----</td> </tr> <tr> <td>X:</td> <td>-----</td> </tr> <tr> <td>Y:</td> <td>-----</td> </tr> <tr> <td>Z:</td> <td>-----</td> </tr> <tr> <td>GET</td> <td>_____</td> </tr> </table>	M71:	-----	M05:	-----	X:	-----	Y:	-----	Z:	-----	GET	_____	<p>CROSS: (AOS +65 MIN) USE RETIMD</p> <p>CMC MODE - FREE P52 (OPTION 3) (128 SITE ORIENT)</p> <p>M93: X: _____ Y: _____ Z: _____</p> <p>REPORT: GYRO TORQUING ANGLES</p> <p>P20, DMC MODE - AUTO DMC ALIGN</p> <p>CONFIGURE DSE (URAR/NCIV/FDR/CMU RESET) (AOS +73 MIN) SET HGA: WGN, NRG, P -16, Y 25 FOR M05</p>	<p>144:00</p>
M71:	-----														
M05:	-----														
X:	-----														
Y:	-----														
Z:	-----														
GET	_____														

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-187

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCC-H CDR LMP NOTES

2153 CST

MCC-H

STATION #5 (CONT)

+5:50

PKS 210° AOS

+6:00

DRIVE TO LM
EP DEPLOY EN ROUTE

+6:10

EVA-2 CLOSEOUT

+6:20

EVA-2 CLOSEOUT

+6:30
CSM REV 30

+6:40

COSMIC RAY DEPLOY

EVA TERMINATION
INGRESS LM

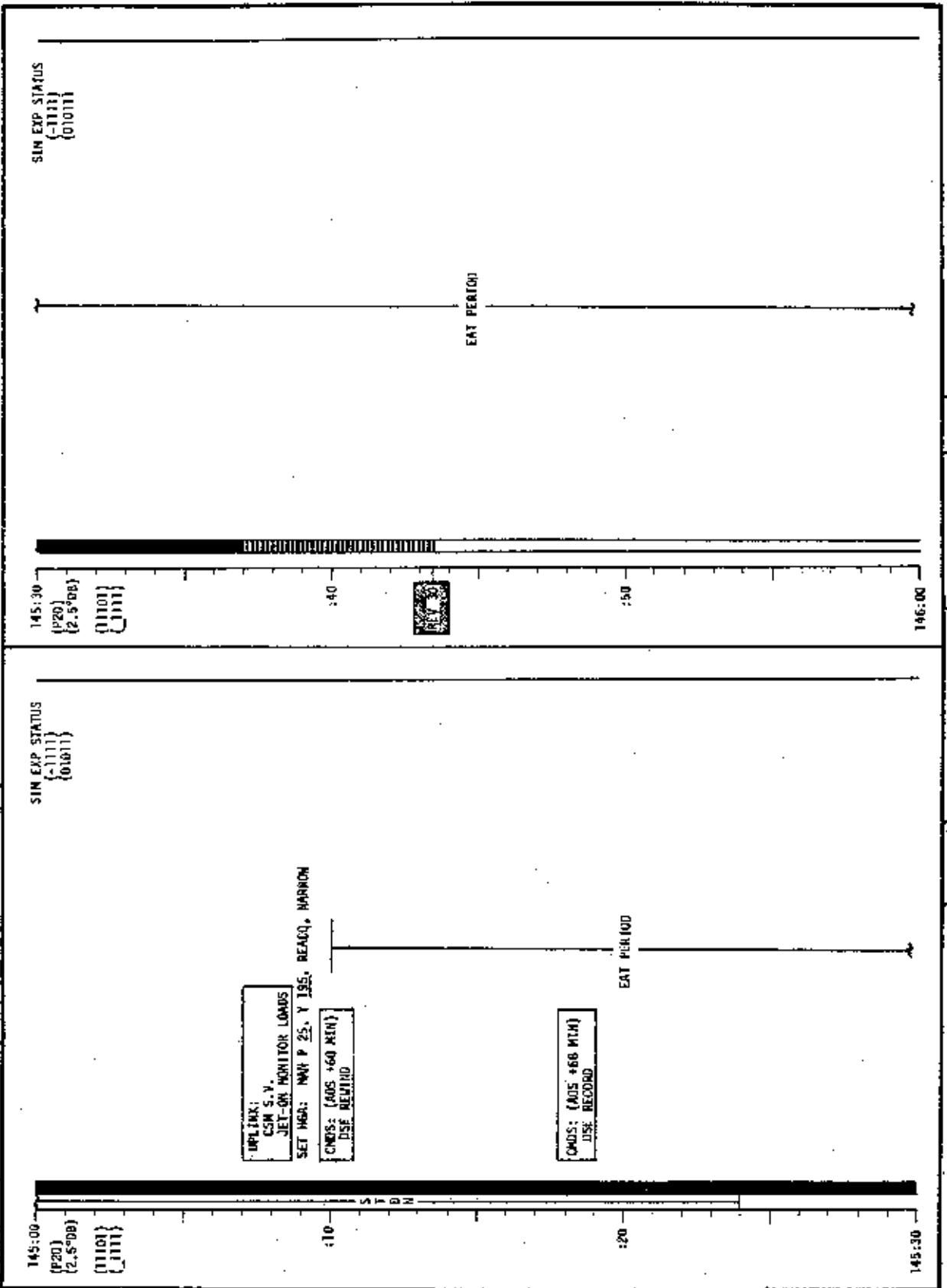
+6:50

CLEAN END

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	145:00 - 146:00	7/29-30	3-190

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL 12/6	10/23/72	3-191

LM FLIGHT PLAN

HUCH

2253 CST
146:00

8

TRANSFER PALLETS

NOTES

+6:50

INGRESS LM

REPRESS LM
POST-EVA SYSTEMS CONFIGURATION

DOFF HELMETS & GLOVES

CONNECT TO LM COMM

4

146:30

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5

- 147:00

7:00/END EVA-2.

BLOOMED - BRIGHT

PLSS 0, INITIAL RECHARGE

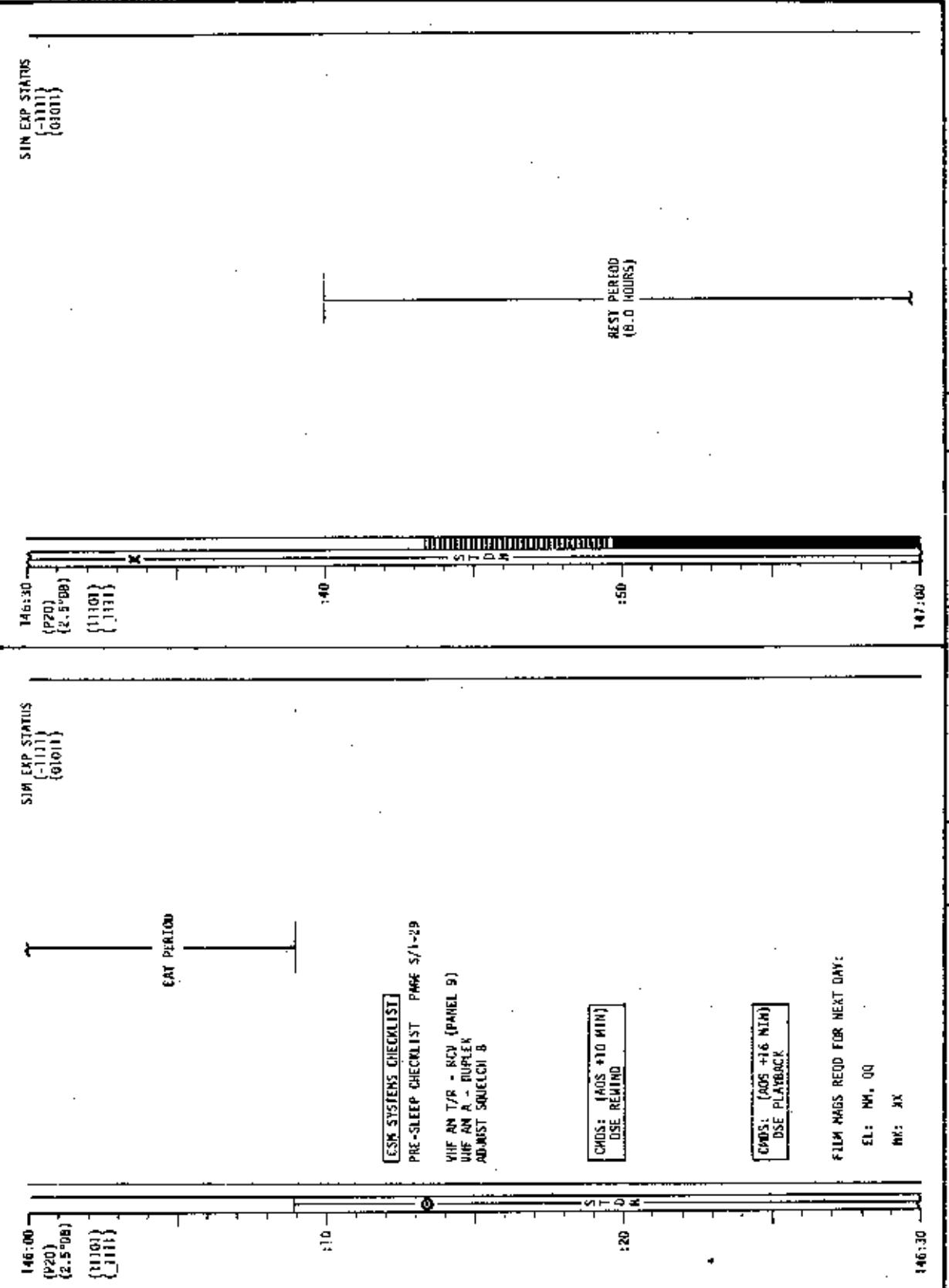
PLS/OPS 00-116

REPORT: OPS PRESSURE

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	146:00 - 147:00	7/30	3-192

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

NOTES

2353 CST

MCCCH

LMP

PLSS/OPS DOFFING (CONT)

:10

POST-EVA CABIN CONFIGURATION

:19

BATTERY MGT
BATS 3 & 4 - OFF/RESET
BAT L (CDR) - ON

WEIGH SRC & COLLECTION BAGS, REPORT: WEIGHTS

:20

GDS 210' LOS

S

:21

DOFF SUITS

:22

CDR, THEN LMP DOFF SUITS BIOMED - OFF, THEN LEFT

:23

:40

CSM REV 31

:41

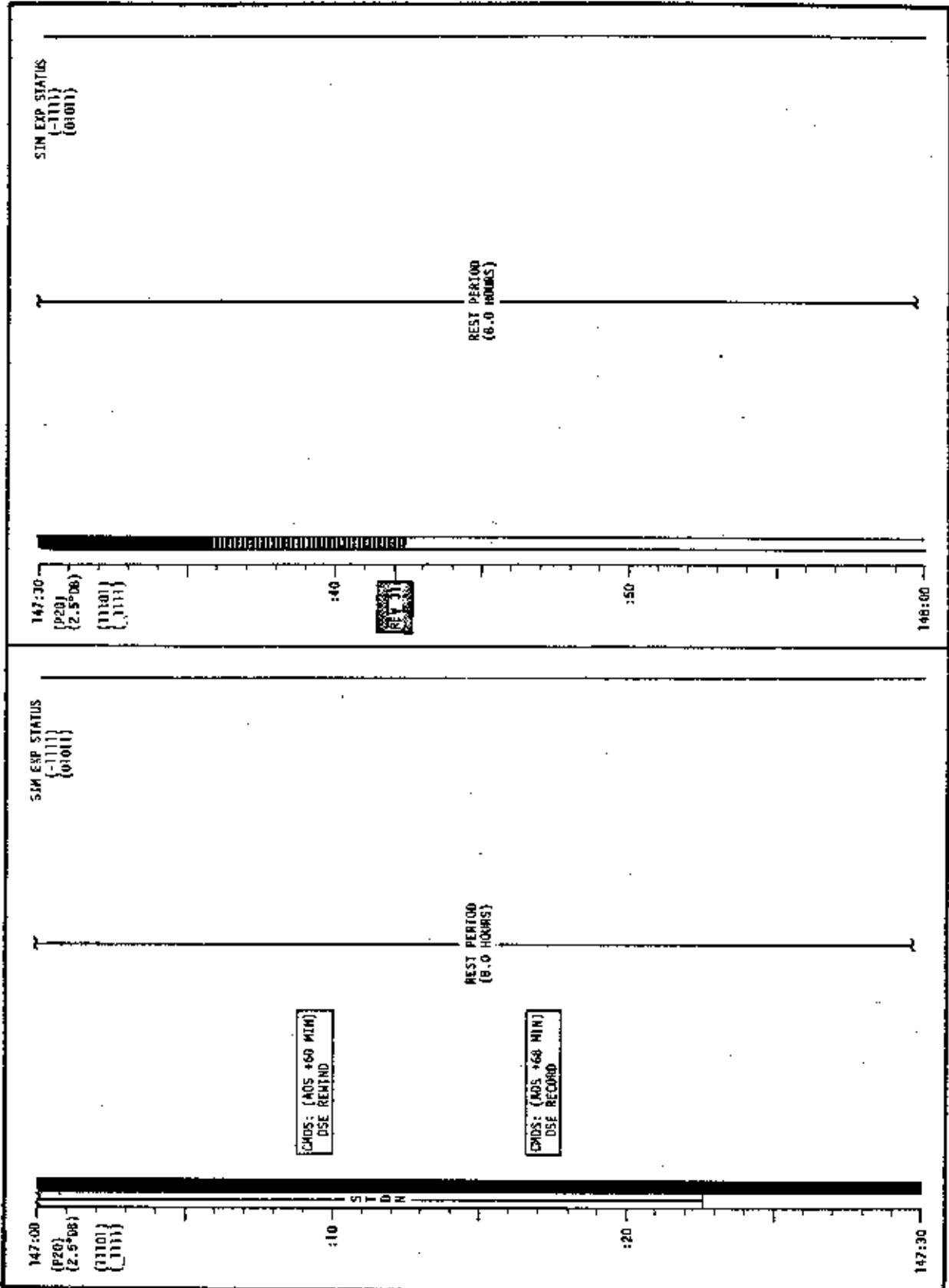
:50

148:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	147:00 - 148:00	7/30-31	3-194

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

0053 CST, 12/13

MCC-H

NOTES

DOFF SUITS (CONT)

148:00

:10

C

:20

EVA DEBRIEFING

S

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D

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X

148:30

UPDATE TO LM

LIFT-OFF TIMES FOR
REVS 33-37

:40

LOAD ETB

:50

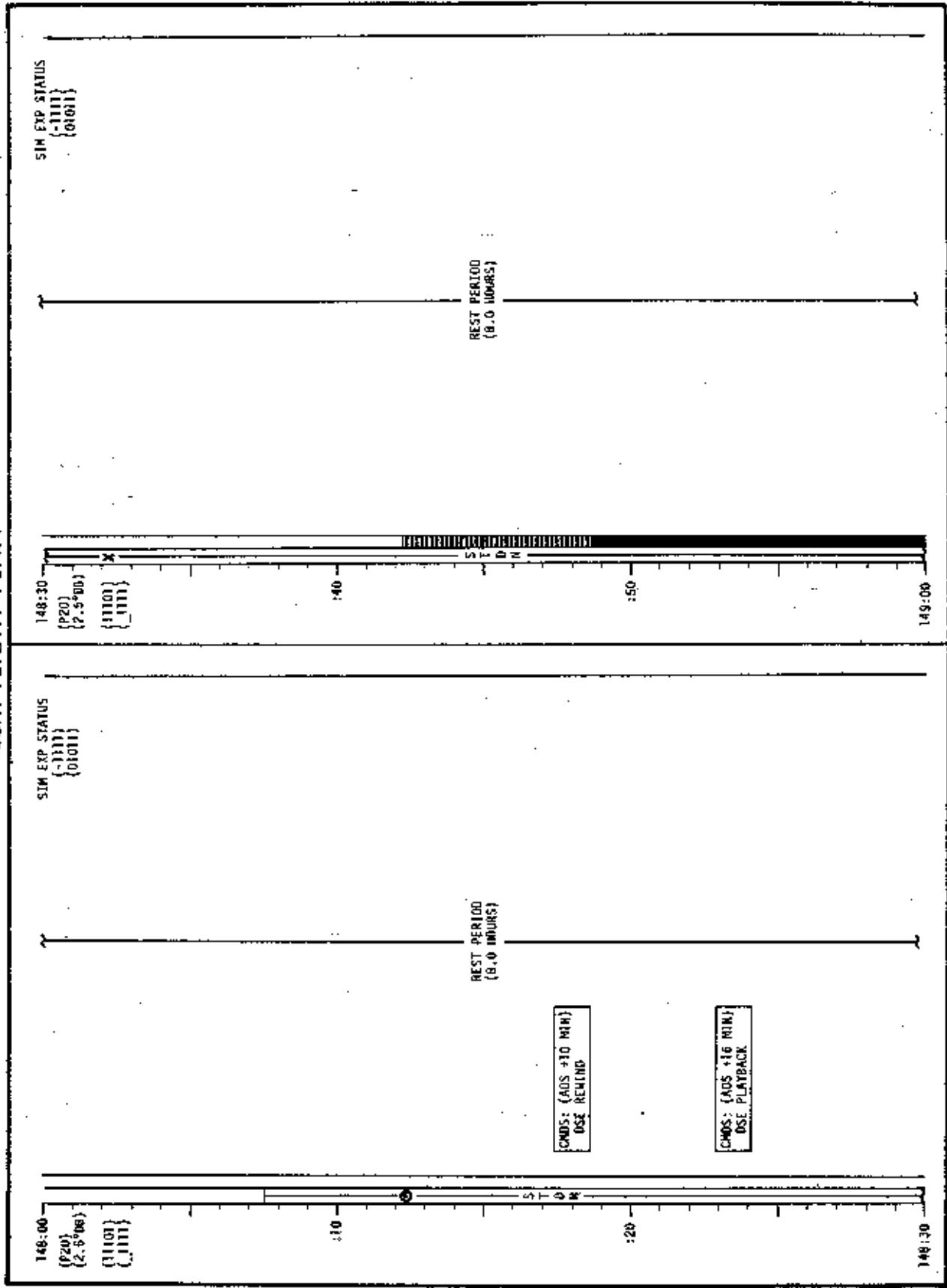
EAT PERIOD

149:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	148:00 - 149:00	7/31	3-196

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
ATC1017	FINAL (12/26)	07/23/72	1-197

LM FLIGHT PLAN

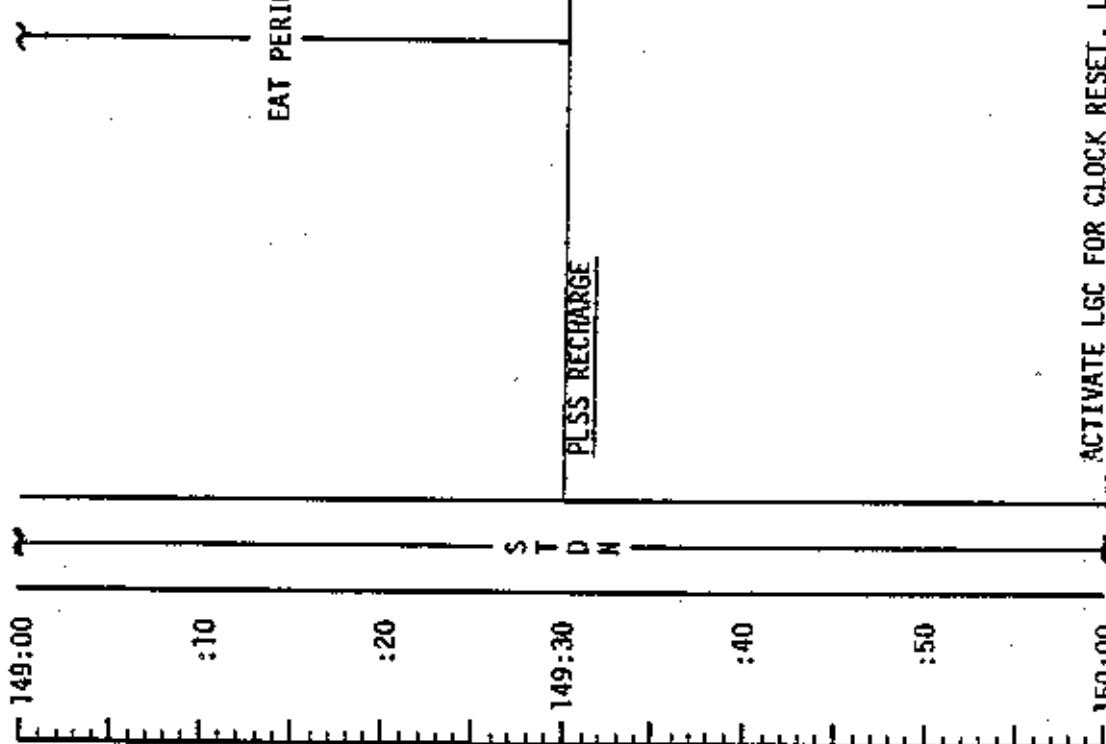
CDR

0153 CST

MCC-H

NOTES

LMP

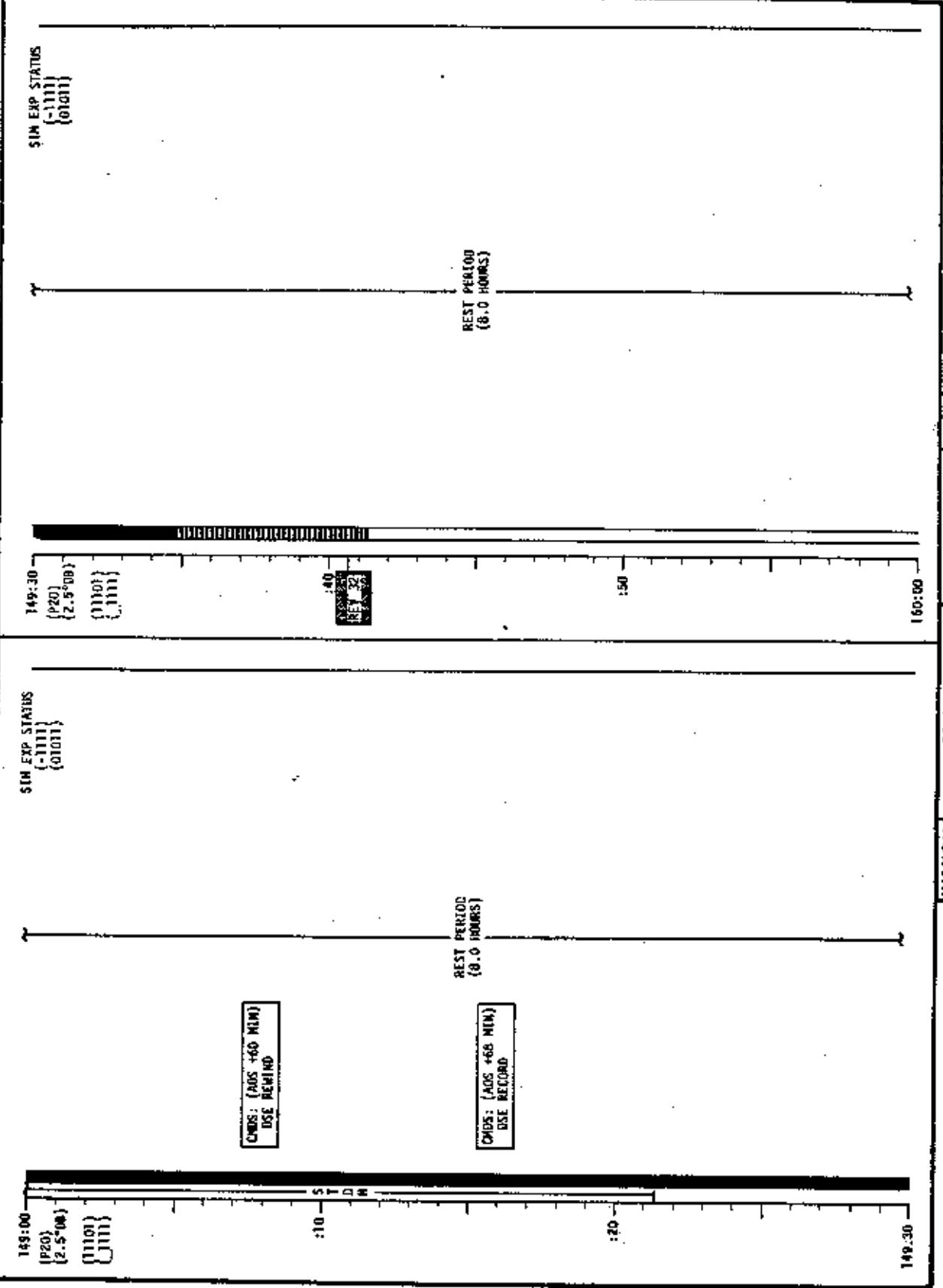


CSM REV 32

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	149:00 - 150:00	7/31-32	3-198

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/5)	16/23/72	1-199

LM FLIGHT PLAN

CDR

NOTES

LMP

MCC-H CONFERENCE

150:00



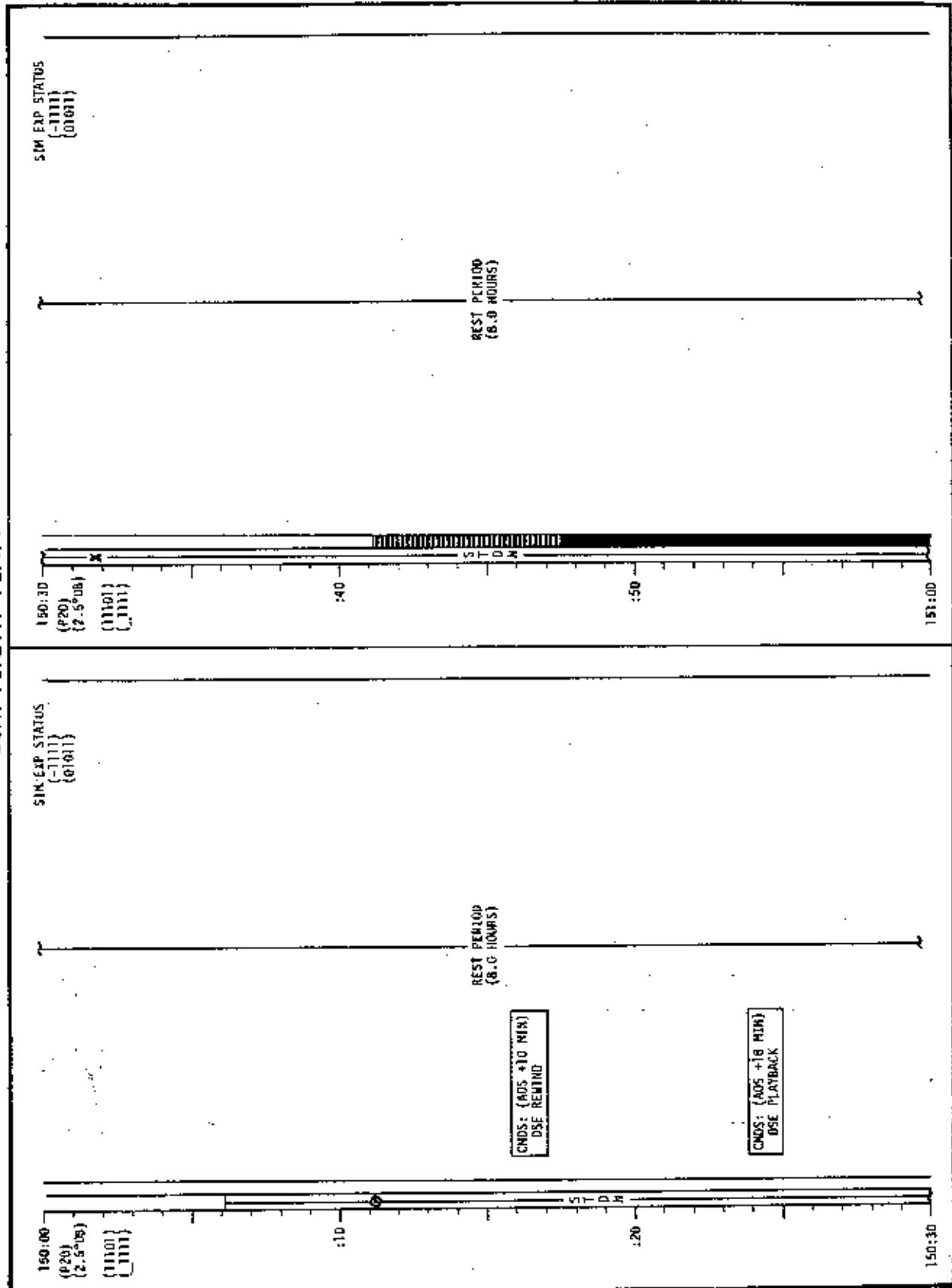
0253 CST

MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	150:00 - 151:00	7/32	3-200

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DAT:	PAGE
APOLLO 17	F1459 (12/6)	10/23/72	3-201

LM FLIGHT PLAN

CDR

0353 CST

MCC-H

151:00

:10

:20

151:30

:40

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152:00

PRE-SLEEP

IMP

NOTES

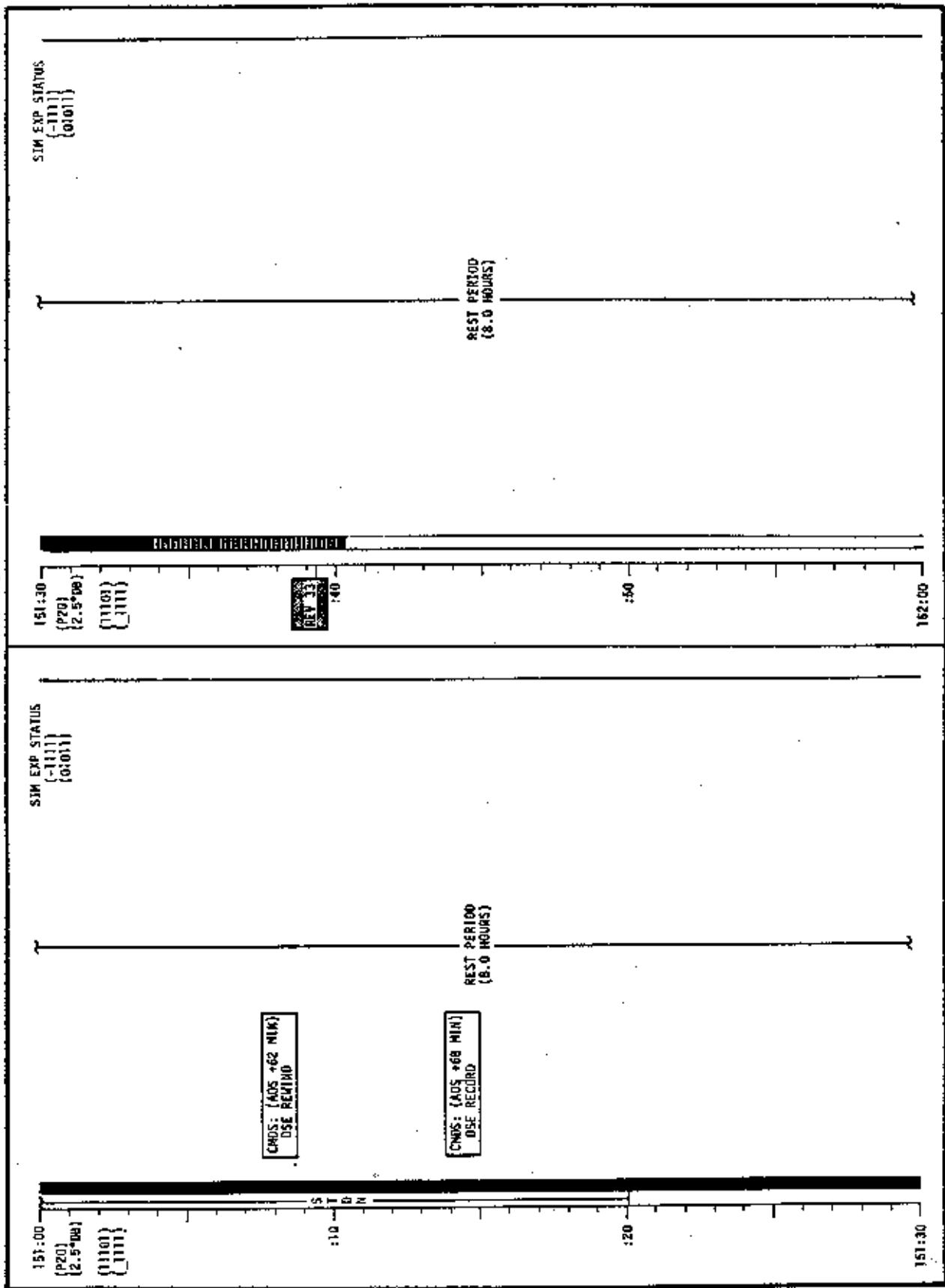
CSM REV 33

REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	151:00 - 152:00	7/32-33	3-202

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

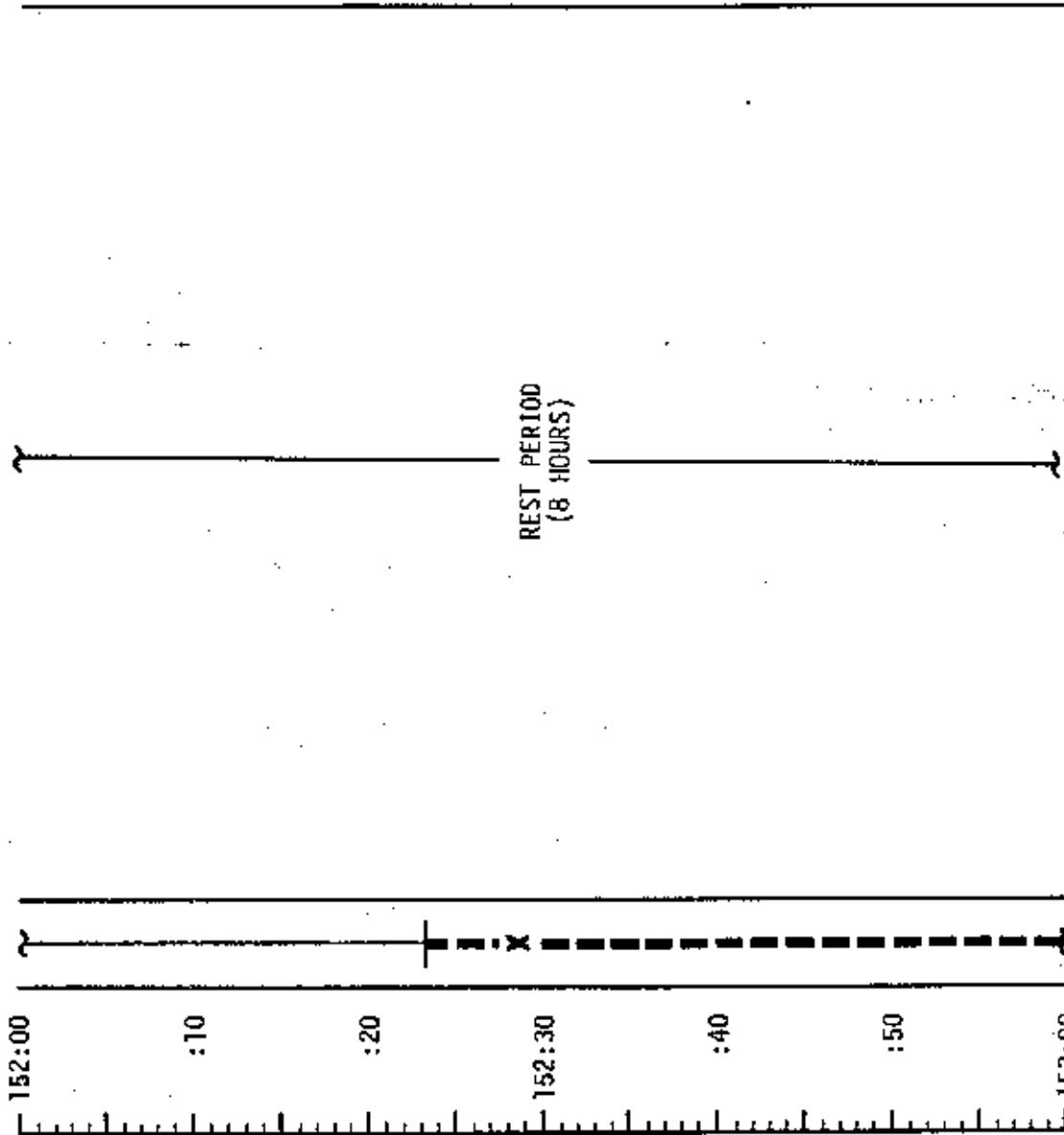
MCC-H

0453 CST

CDR

NOTES

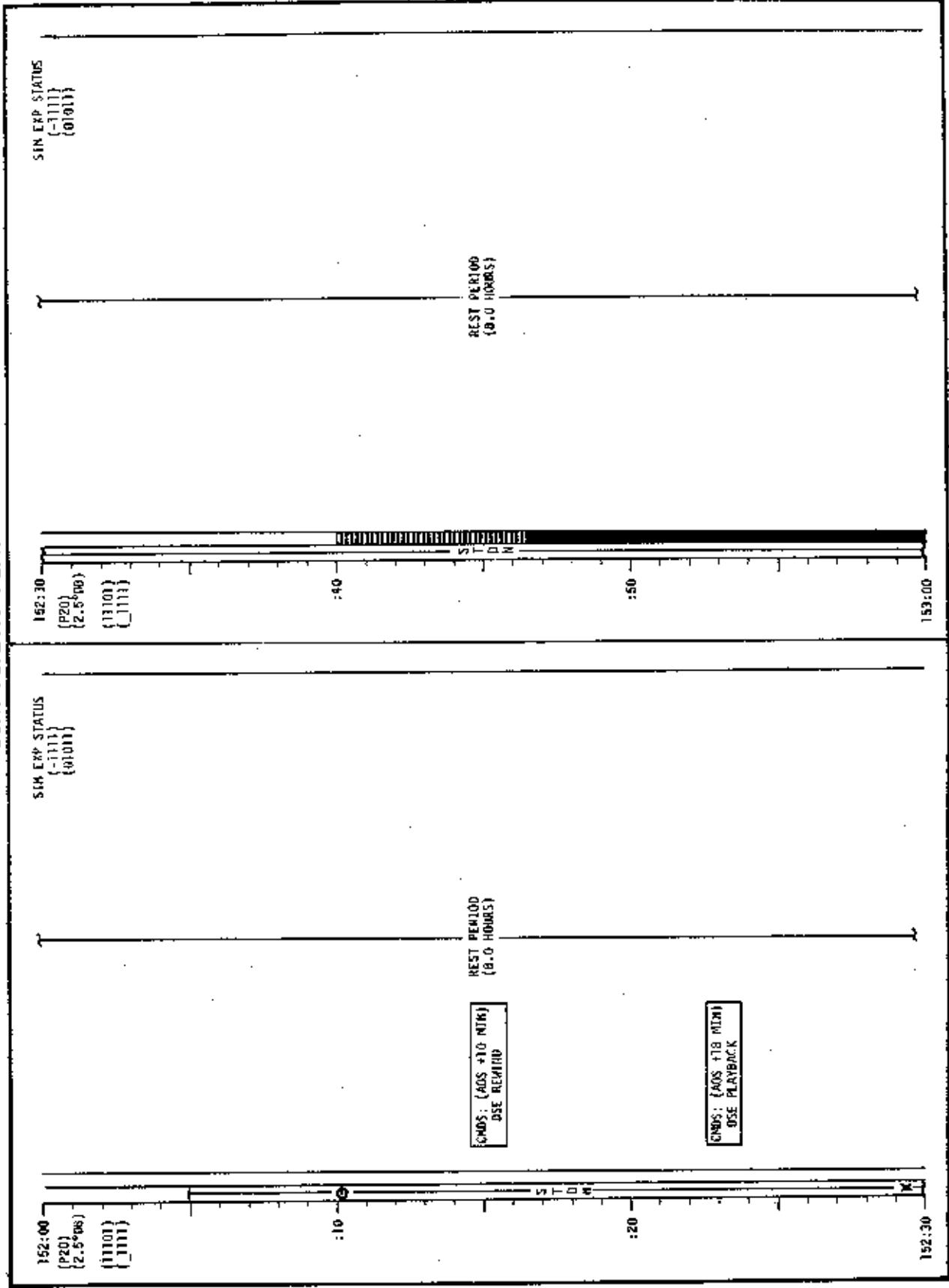
LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	152:00 - 153:00	7/33	3-204

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
Apollo 17	Final (12/6)	10/23/72	3-205

LM FLIGHT PLAN

CDR

0553 CST

153:00

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:20

153:30

:40

:50

154:00

NOTES

LMP

REST PERIOD
(8 HOURS)

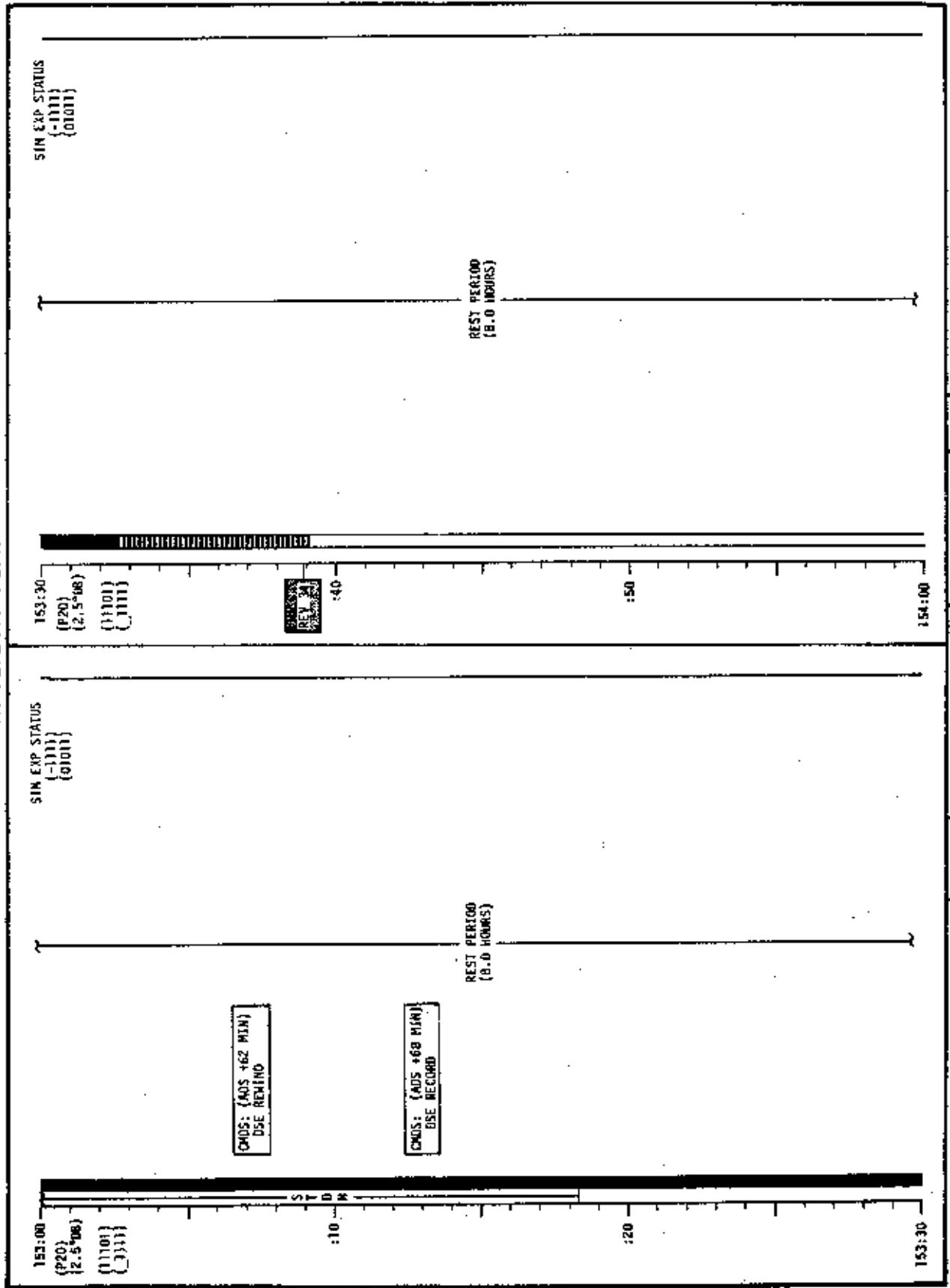
CSM REV 34

MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	153:00 - 154:00	7/33-34	3-206

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
ANGULUS 17	FINAL (12/6)	10/23/72	3-207

LM FLIGHT PLAN

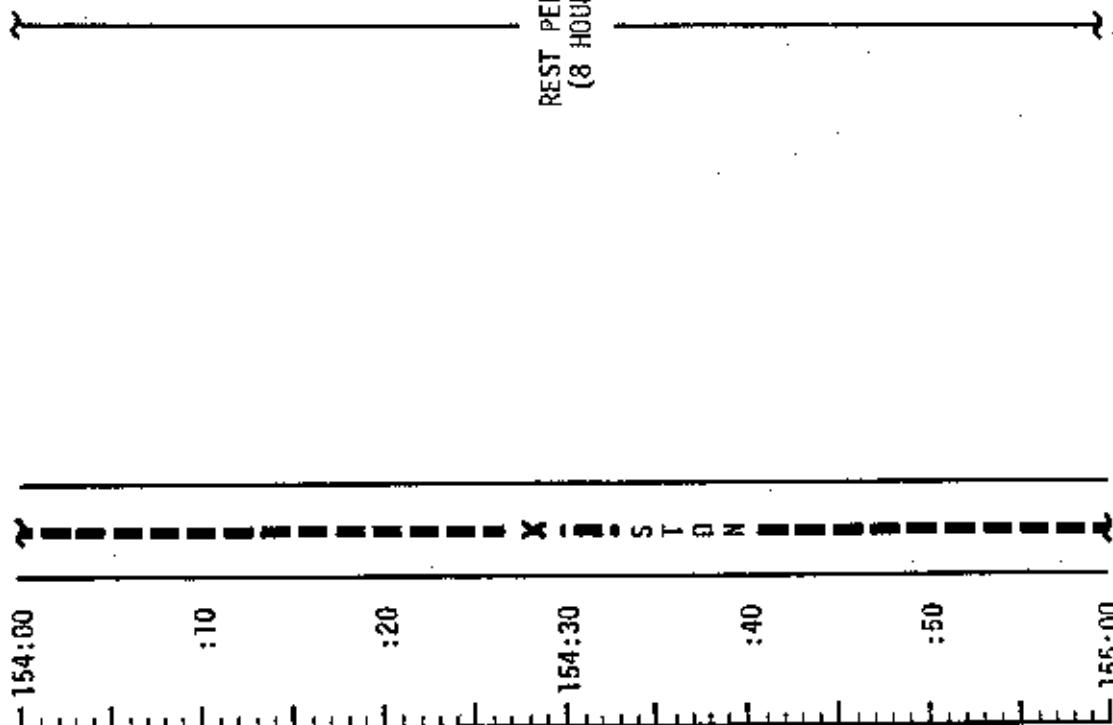
CDR

0653 CST
154:00

NOTES

LMP

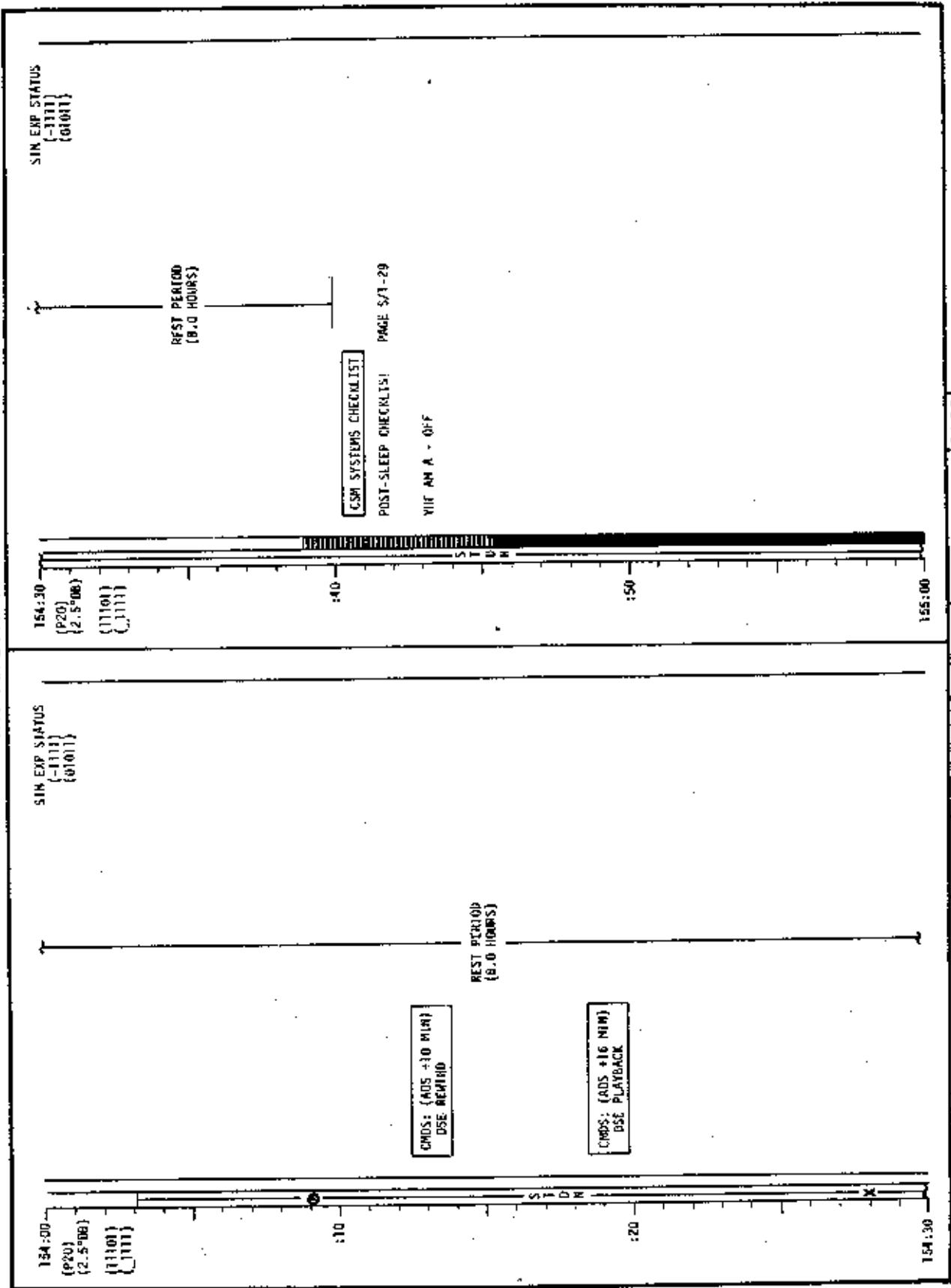
MCC-H



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	154:00 - 155:00	7-8/34	3-208

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

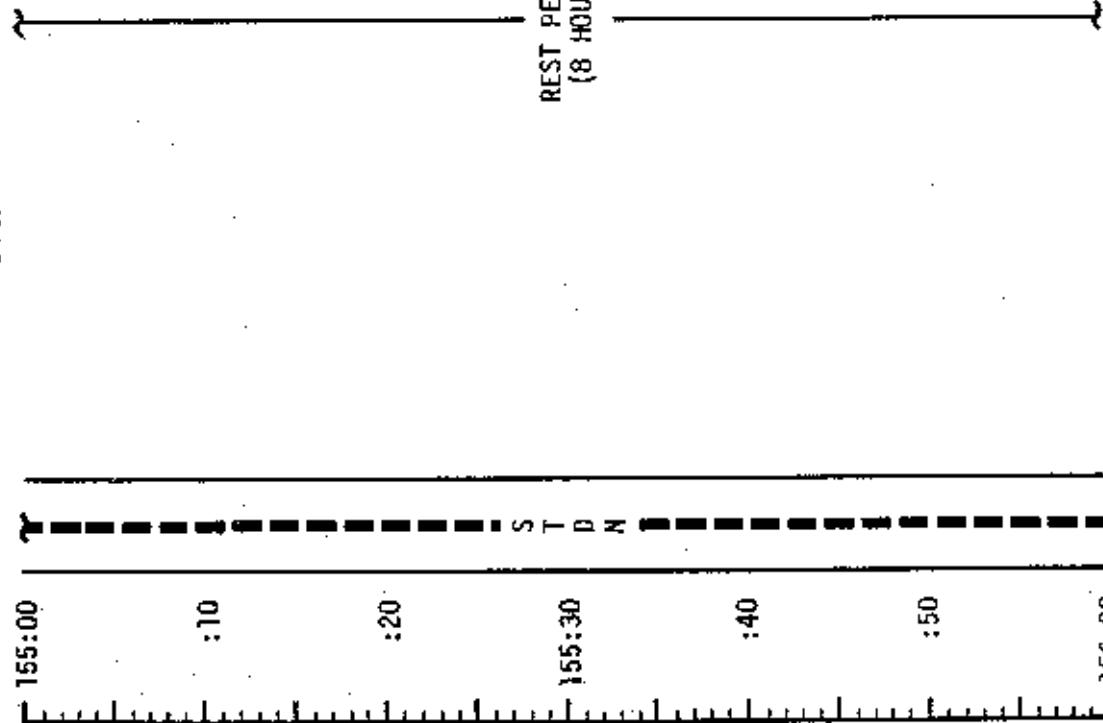
CDR

0753 CST
F 155:00

MCCCH

NOTES

LMP

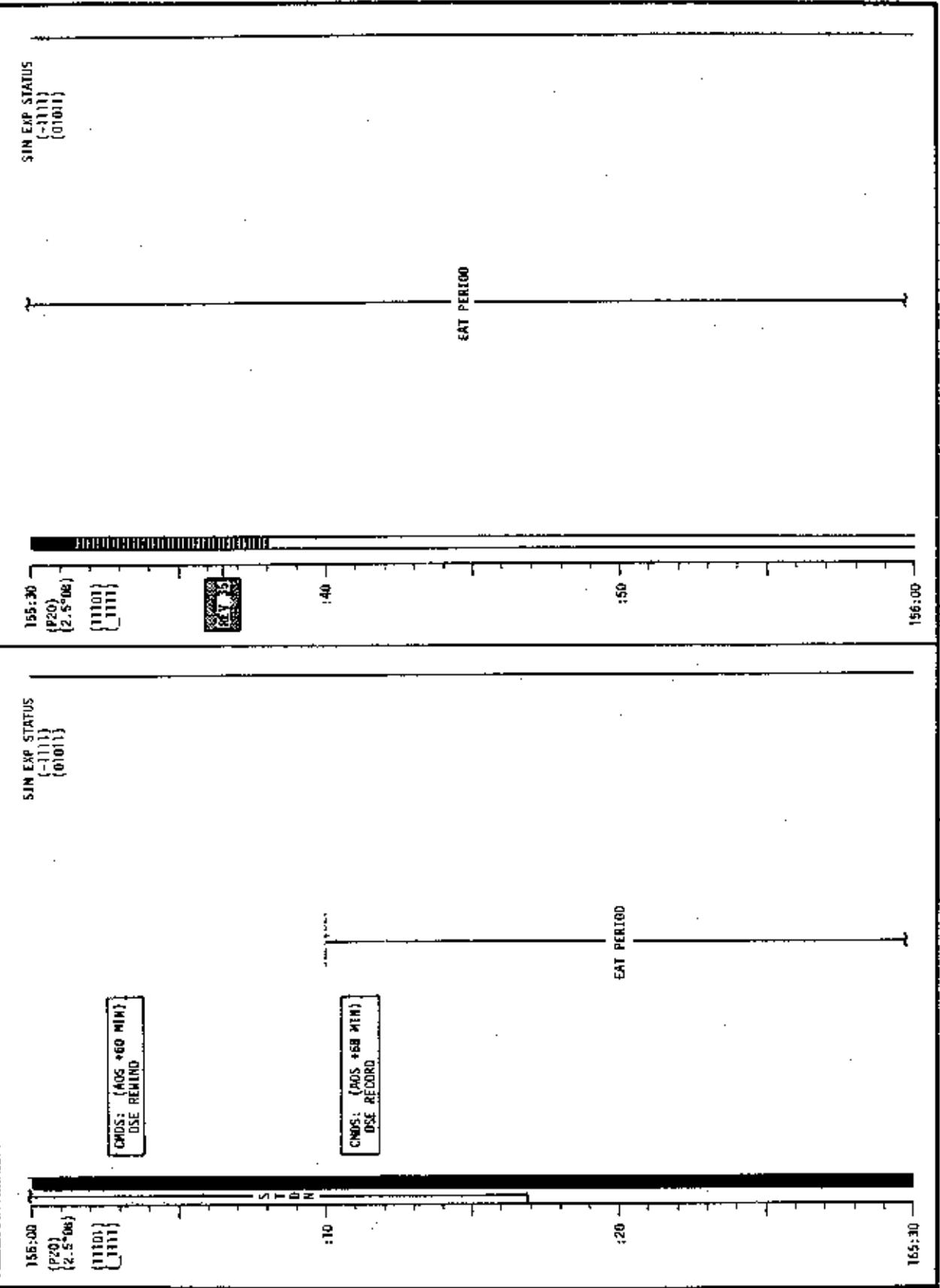


CSM REV 35

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	155:00 - 156:00	8/35	3-210

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

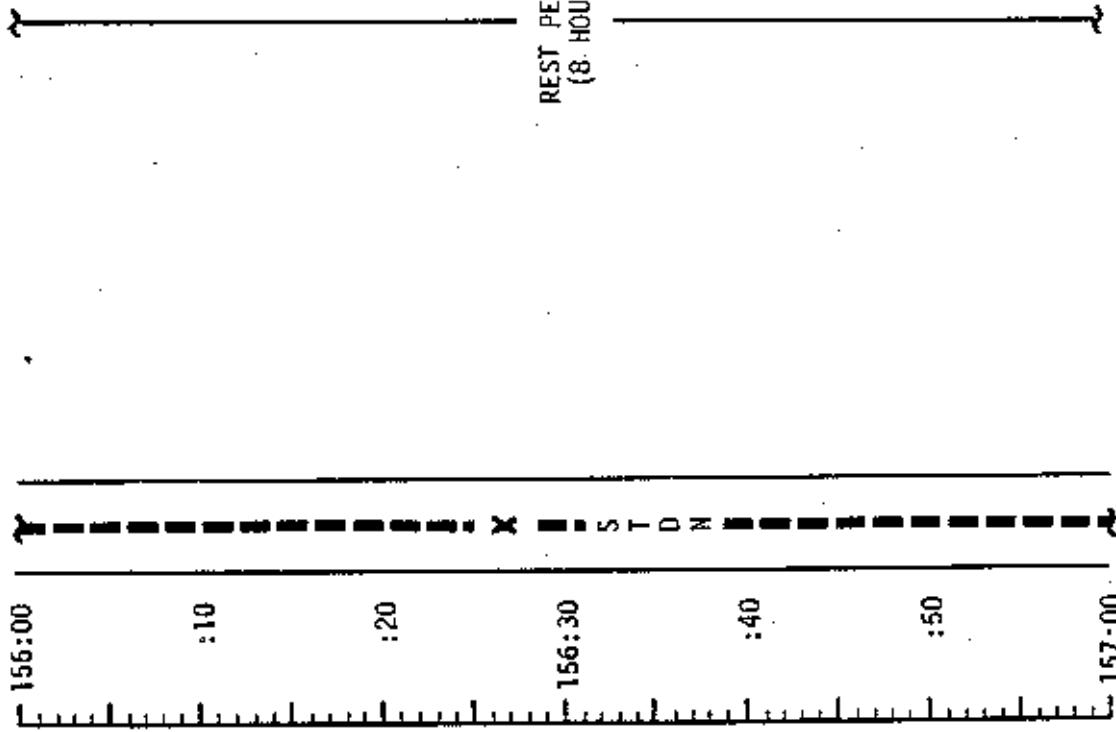
CDR

0853 CST

MCC-H

NOTES

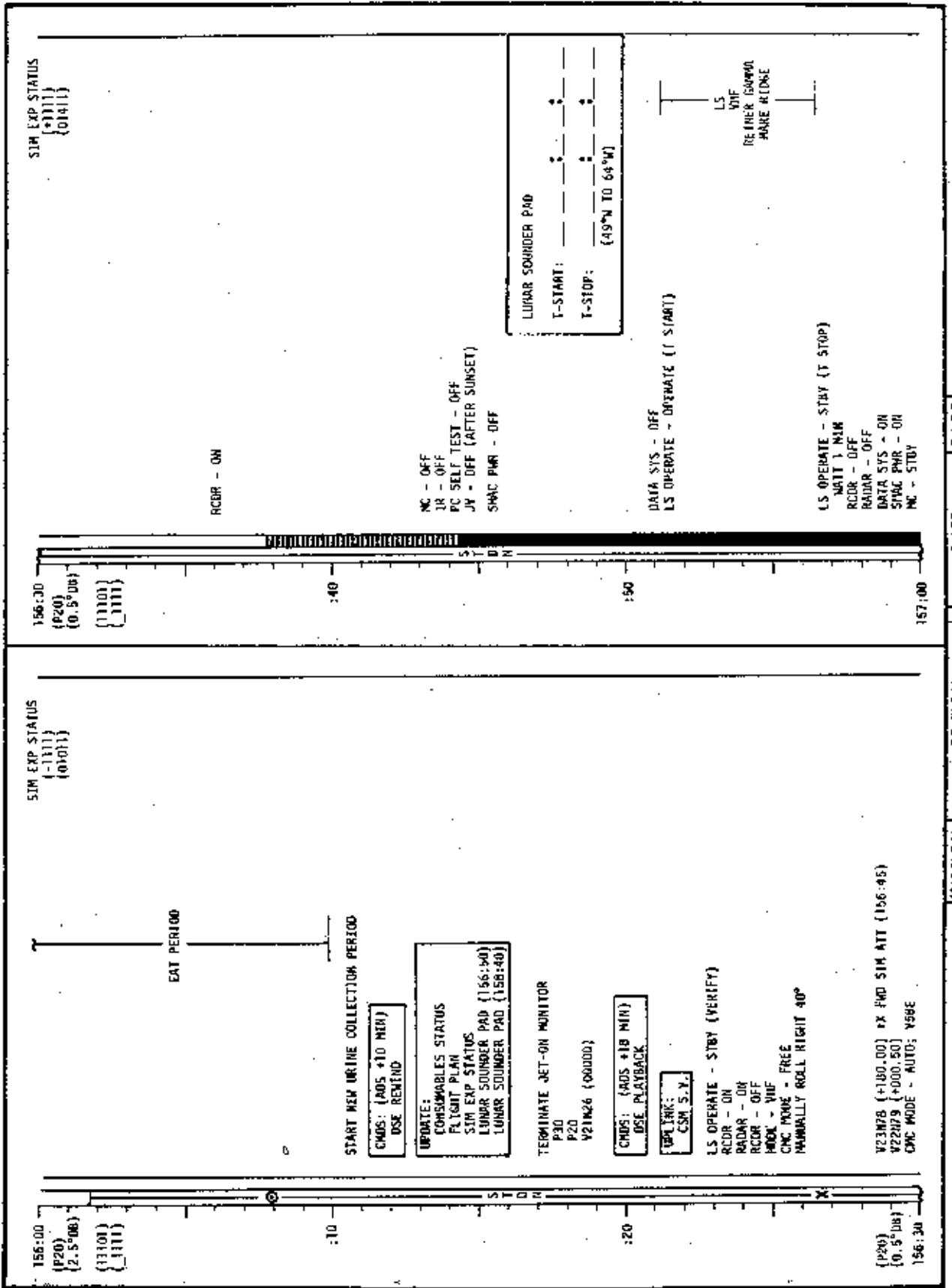
LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	156:00 - 157:00	8/35	3-212

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

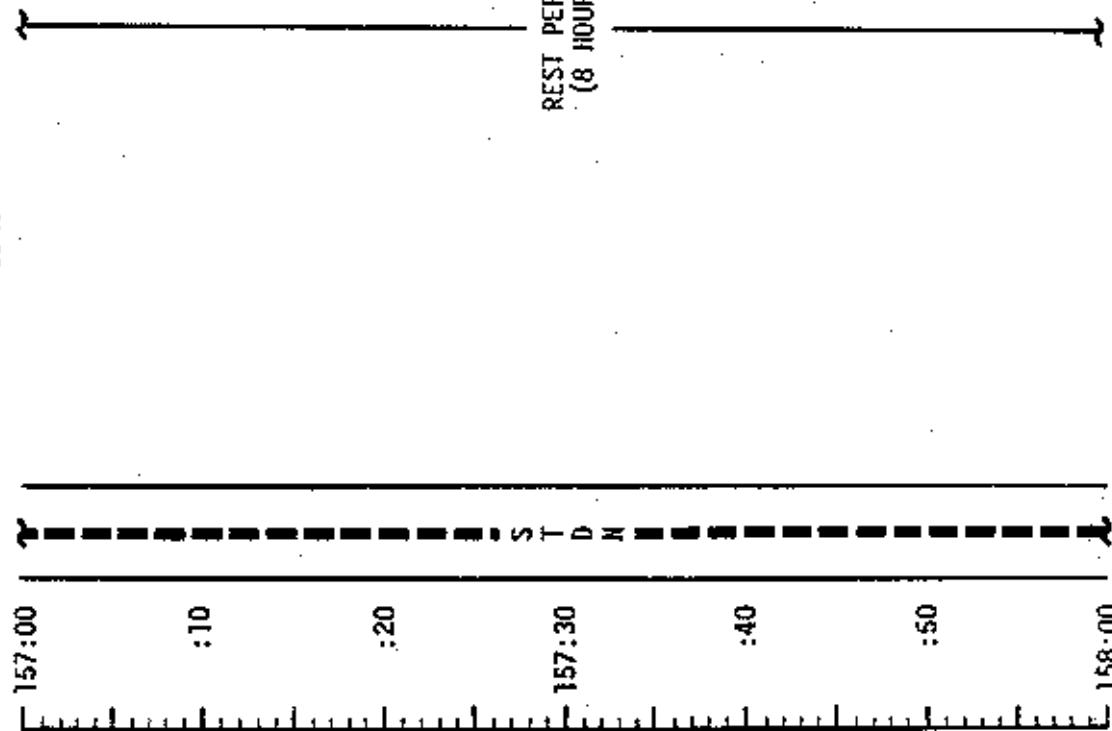
MCC-H

0953 CST

CDR

LMP

NOTES



CSM REV 36

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	157:00 - 158:00	8/35-36	3-214

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

157:00	IR - ON PC SELF TEST - MTRS UV - ON {P20} {0.5°WB} {11101} {11111}	SIM EXP STATUS (#111) (01000) P52 IMU REALIGN N71: _____ NDS: _____ N93: _____ X _____ Y _____ Z _____ GET _____ ONS: (AOS +66 MIN) - DSE REWIND REPORT: GND TORQUE ANGLES LDC ALIGN	157:30 (#220) (0.5°WB) {11101} {11111} REV 36	SIM EXP STATUS (#11111) (00011) P52 IMU REALIGN N71: _____ NDS: _____ N93: _____ X _____ Y _____ Z _____ GET _____ ONS: (AOS +66 MIN) - DSE REWIND REPORT: GND TORQUE ANGLES LDC ALIGN
158:00	CAM MODE = FREE P52 (OPTION 3) {L1DG SITE ORIENT} S D I R M A T H C E L F G H J K L M N O P Q R S T U V W X Y Z {P20. OPT 5 (40°S OBLIQUE PHOTO A11)} (157:15)	N78: (+270.00) (+187.25) (+180.00) CMC MODE = AUTO; V66E (182.000), 145.001	158:00 (#220) (0.5°WB) MARE INCANUS (P36 - C) CNSEL/250/CEK-JWL 8 (15.6, 1/125,") 34 FR CHANGE TO 1/250	N78: (+270.00) (+187.25) (+180.00) CMC MODE = AUTO; V66E (182.000), 145.001
158:10	RECORD FR # _____	158:10	RECORD FR # _____	RECORD FR # _____
158:20	CONFIGURE DSE (HBR/RED/FNU/QMD RESET)(ADS +73 MIN) SELECT DMW 0 FOR ADS SET AGA: MAN, MODE, P >10, Y 25, FOR ADS +10 MIN CONFIGURE CAMERA (ORBITAL SCIENCE PHOTOS) CNSEL/250/CEK-JWL 8 (15.6, 1/125,") 34 FR NAG (IN) _____, FR # _____	158:20 IMAGE MTN = ON INC = ON (147°W) IMAGE MTN - INCR (BP +3 STEPS) ON	158:20 IMAGE MTN = ON INC = ON (147°W) IMAGE MTN - INCR (BP +3 STEPS) ON	158:20 IMAGE MTN = ON INC = ON (147°W) IMAGE MTN - INCR (BP +3 STEPS) ON
158:30				

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-215

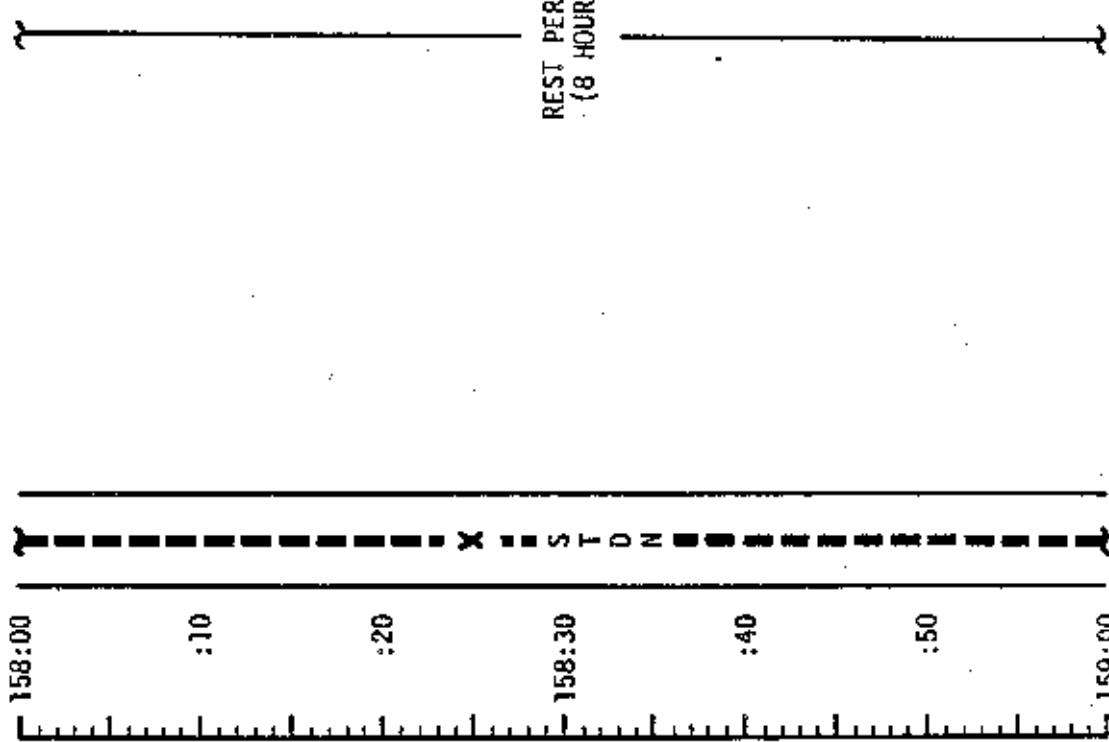
LM FLIGHT PLAN

MCCCH

1053 CST
158:00

LMP

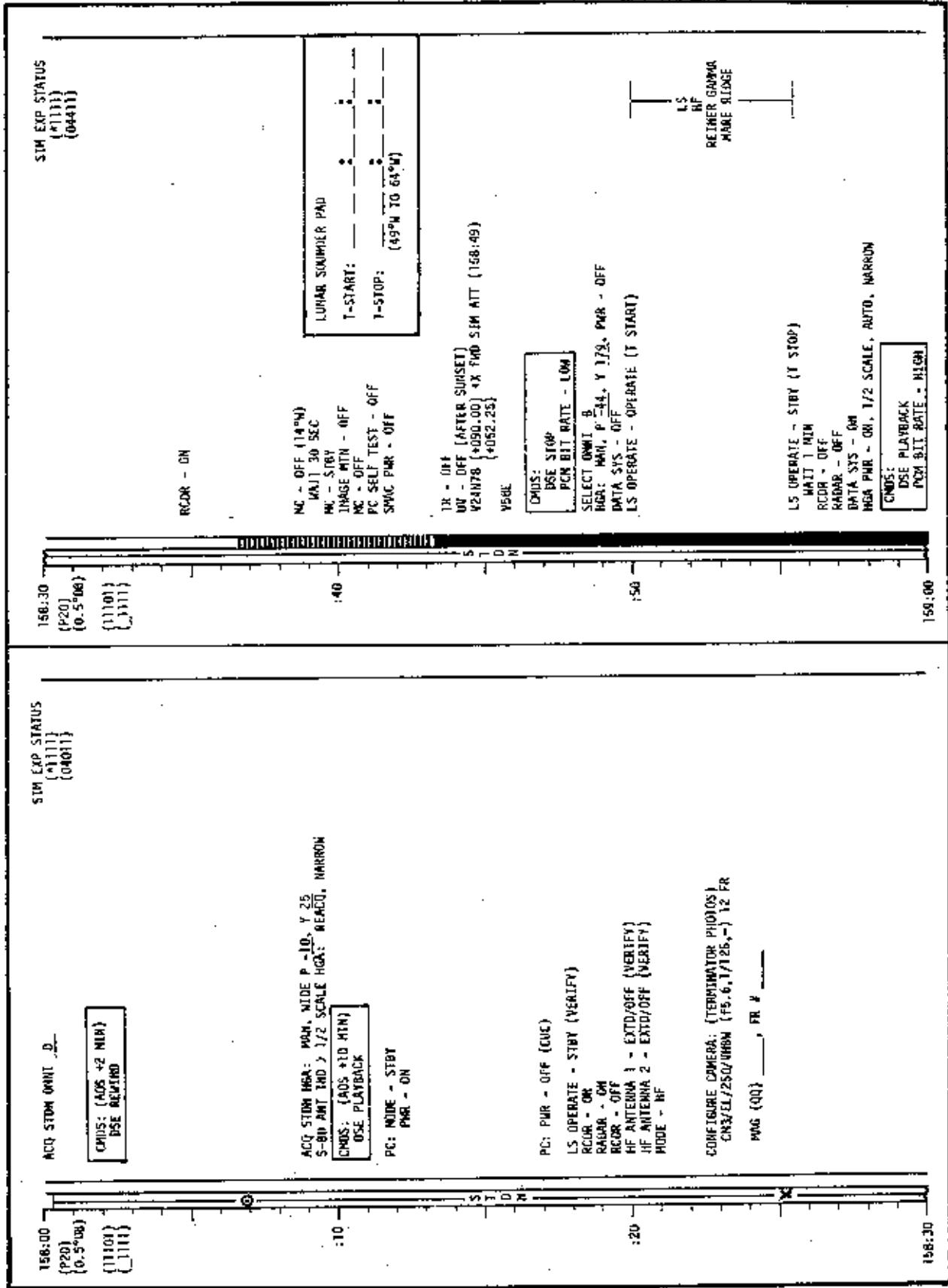
NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	158:00 - 159:00	8/36	3-216

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



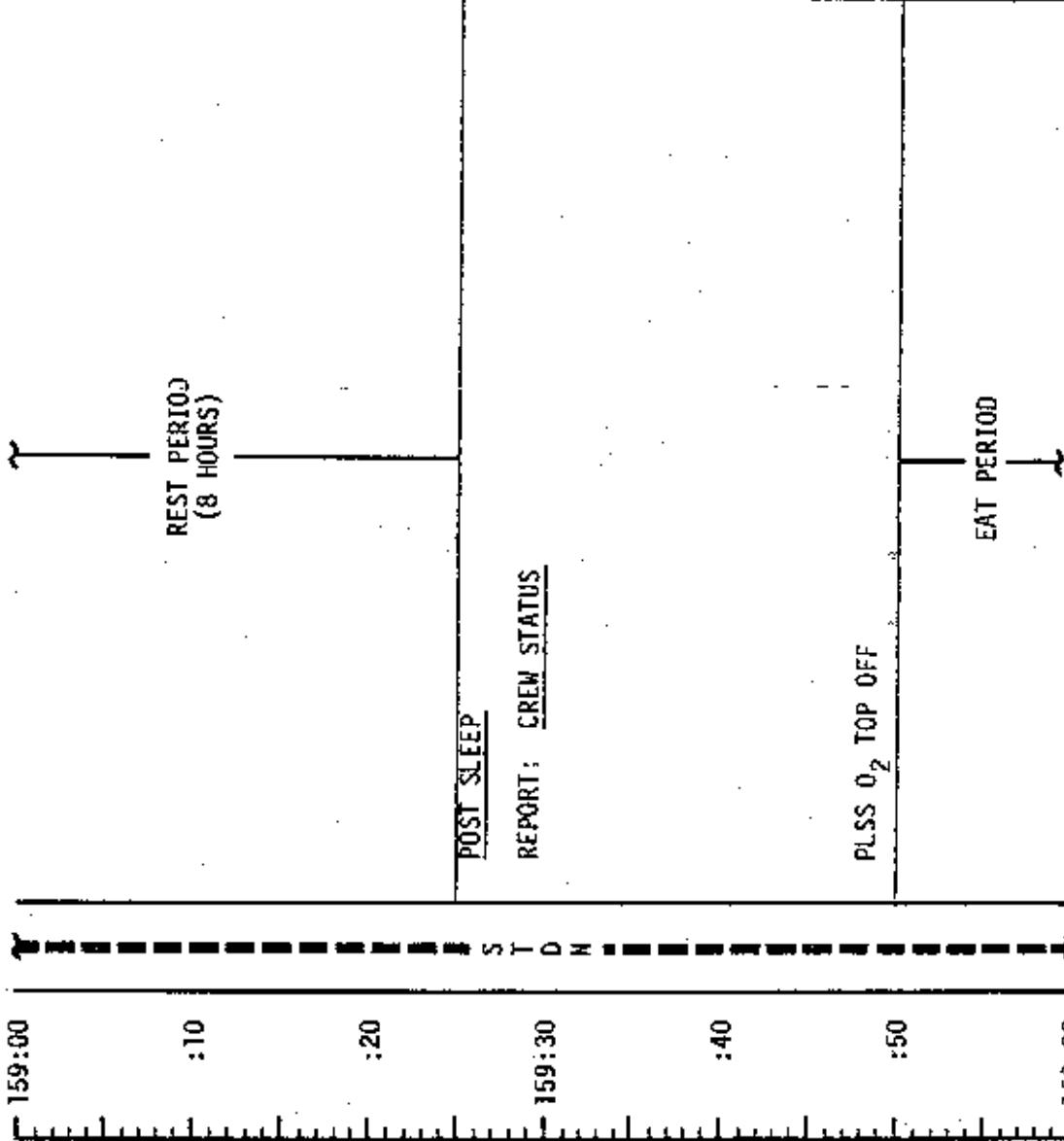
LM FLIGHT PLAN

NOTES

LMF
CDR

1153 CST

MCC-H



STAY/NO-STAY FOR
EVA-3

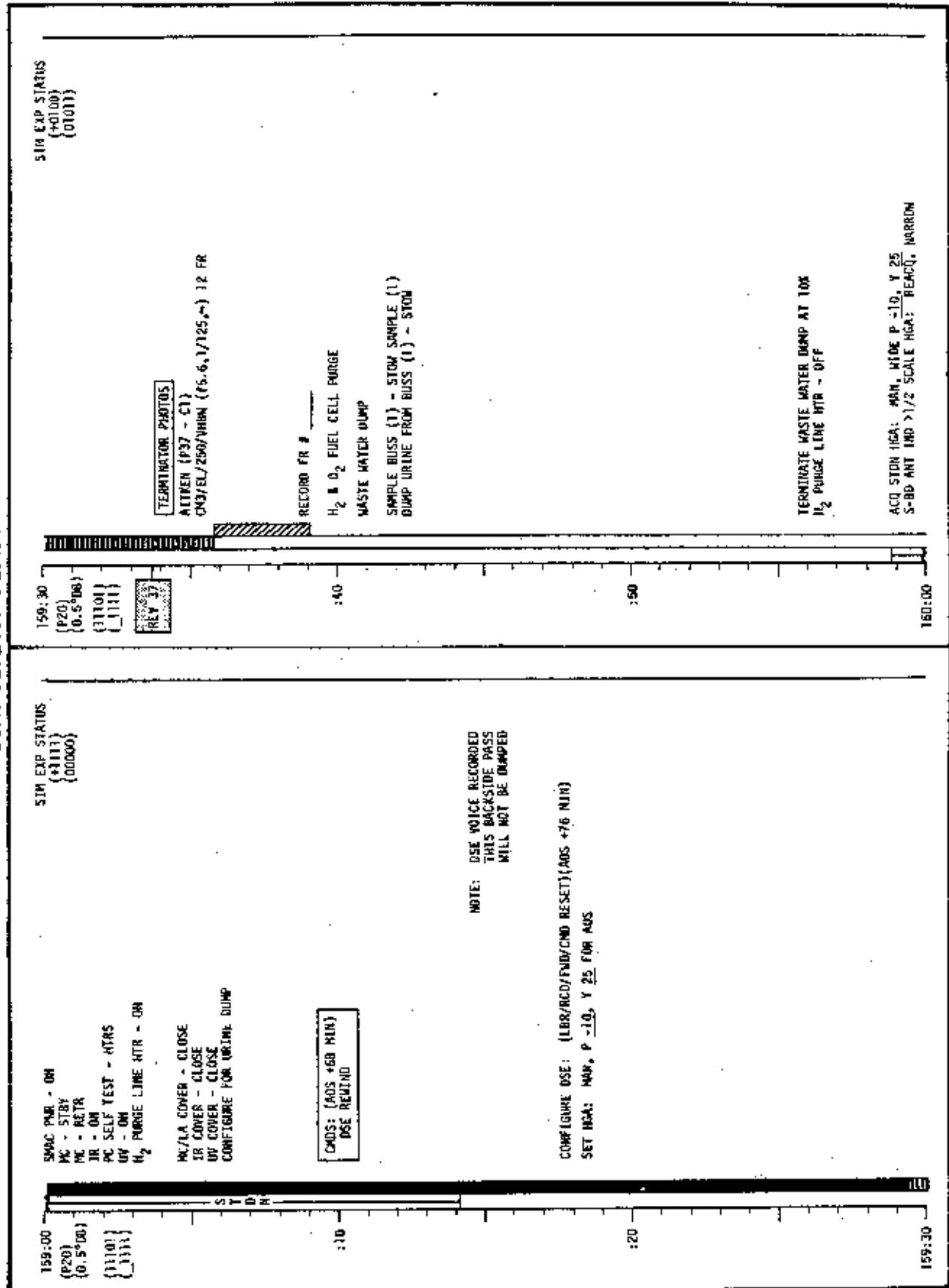
CSM REV 37

UPDATE TO LM
LIFT-OFF TIMES FOR
REV'S 38-43

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	159:00 - 160:00	8/36-37	3-218

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

NOTES

LMP

CDR

1253 CST

160:00

:10

:20

160:30

:40

:50

161:00

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EAT PERIOD

EVA-3 PLANNING

DON SUITS
LMP, THEN CDR DON SUITS
FILL DRINK BAGS

BIONED - OFF, THEN RIGHT

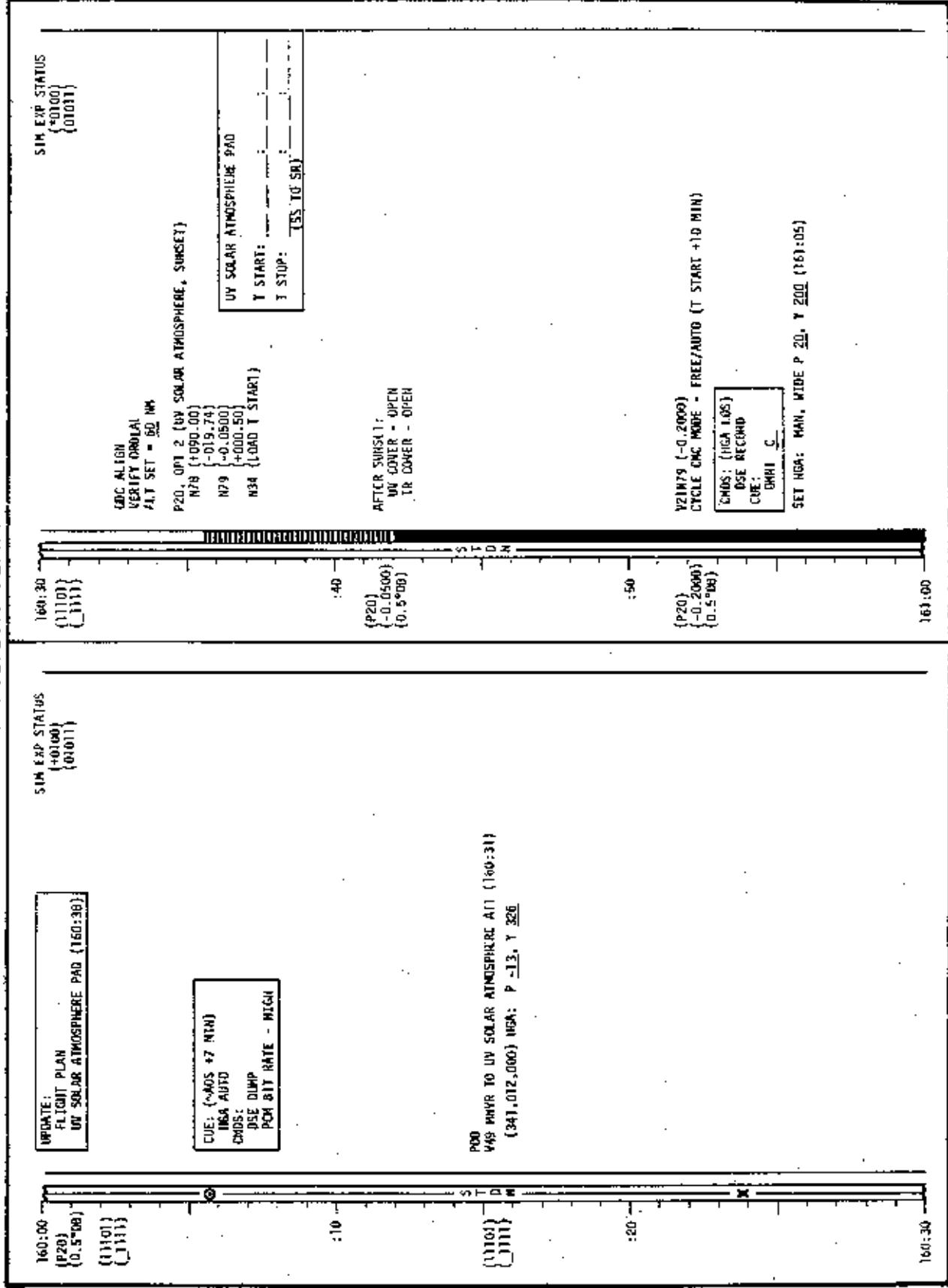
-2:00

-1:45

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	160:30 - 161:00	8/37	3-220

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/13/72	J-221

LM FLIGHT PLAN

CDR

1353 CST

MCC-H

NOTES

LMP

:161:00

:10

-1:30

BATTERY MGT

PWR AMP - ON

BATS 3 & 4 - ON

BAT L (LMP) - ON; (CDR) - OFF / RESET

BATS 1 & 2 - OFF / RESET

PWR AMP - OFF (ON MCC-H CUE)

CABIN PREP FOR EVA-3

-1:15

EQUIPMENT PREP FOR EVA-3

CSM REV 38

:20

-1:00

PLSS DORMING

:30

-0:45

:40

GDS 210' AOS

:50

162:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	161:00 ~ 162:00	8/37-38	3-222

FLIGHT PLANNING BRANCH

CCSM FLIGHT PLAN

ACO STON HSA: MAN. WIDE, P 20, Y 200
S-BB ANT END > 1/2 SCALE HSA: REACT, NARROW
CNS: (INDA AOS)
DSE STOP

REF ID: A11111

VERIFY USE TAPE MOTION (LIBR/RCRD/FWD/REV RESET) (AOS +73 MIN)
DISC SET HEAD: MAIN, WIDE, P-10, Y-25 FOR AOS

AT ORIGNAL PITCH = 27.3°
P20, OPT 5 (IN SOLAR ATMOSPHERE, SUNRISE)
K78 -5001.01
-002.82
-019.72
+0000.50
K79

卷四

544 EXP STATUS
[M0100]
[G0101]

```

AT MAIN COMPLETION:
    MC/LA COVER - OPEN
    IR COVER - OPEN
    UV COVER - OPEN
    MC - EXTD
    IMAGE INIT - UN
    MC - UN (16x2E)
    IMAGE MIN - INCR (BP +4 STEPS) UN
    LA - UN
    YB [11101]

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四

EAT PFR100

ACID STONE (MUD). HIGH P-10, Y-25
5.00 AHT TIME 3 1/2 SCALE REE: REEF, MARRON

BEFORE SURVIVAL: IR COVER → CLOSE ↑ COVER ↑ SWOR

161:30

62:00

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-223

LM FLIGHT PLAN

NOTES

LMP

CDR

1453 CST

162:00

MCC-H

PLSS COMM CHECK
CONFIGURE COMM FOR EVA
RECORDED - ON
REPORT: PLSS O₂ QUANTITY

-0:30

OPS CONNECT

:20

HELMET/GLOVE DONNING

-0:15

GO/NO-GO FOR
CABIN DEPRESS

162:30

X

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N

PRESSURE INTEGRITY CHECK

CABIN DEPRESS
START WATCHES @ 3.5 PSIA
FINAL-PREP FOR EVA

0:00/START EVA-3

:50

EGRESS LM

ASSIST CDR

+0:10

DESCEND TO SURFACE

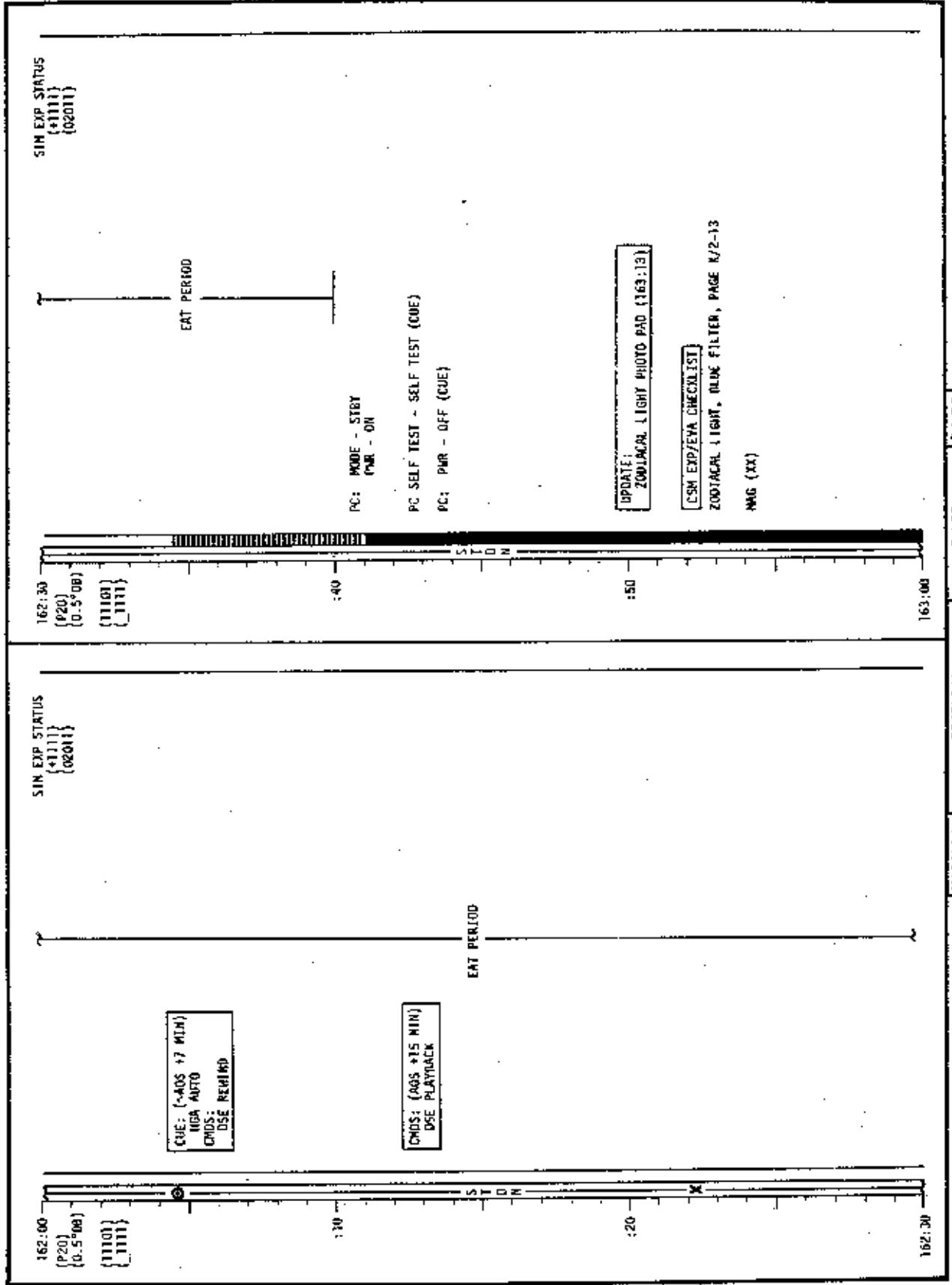
RECORDED - OFF
EGRESS LM, CLOSE HATCH
DESCEND TO SURFACE

+0:20

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	162:00 - 163:00	8/38	3-224

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

1553 CST

MCC-4

NOTES

LMP	TIME	NOTES
CDR	163:00	LCRU PUR UP & LRV PREP
	:10	GEOLOGY PREP
	:20	DRIVE TO SEP SITE
		TRAVERSE PREP
		LRV NAV INITIALIZATION
		DRIVE TO STATION #6
		LRV SAMPLE EN ROUTE
	163:30	S
		T
		D
		N
	:40	
	:50	
	164:00	
		T
		V

+0:20
+0:30
+0:40
+0:50

+1:00

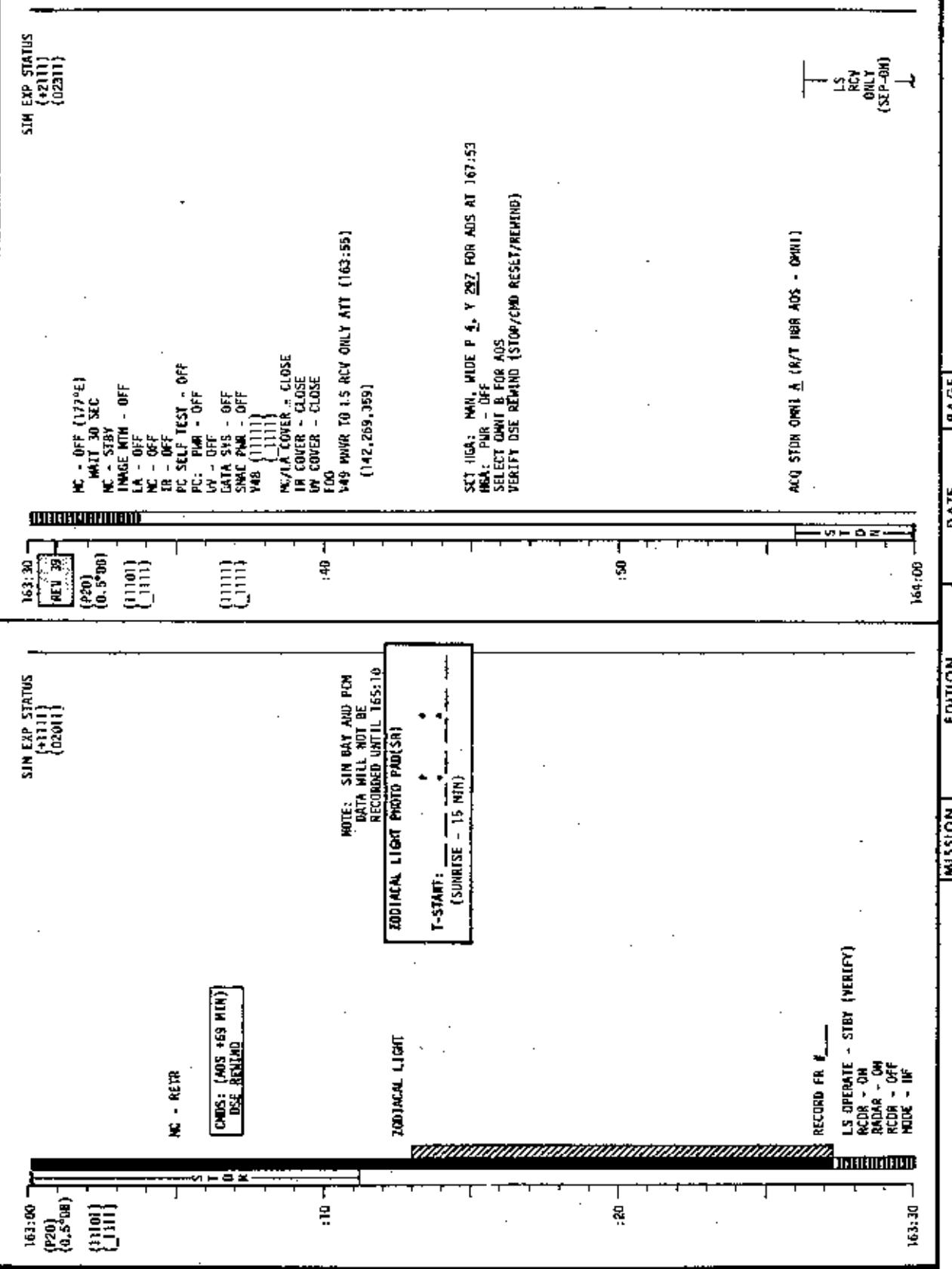
+1:10

+1:20

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	163:00 - 164:00	8/38-39	3-226

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

NOTES

LMP

CDR

1653 CST

MCC-H

STATION #6 (CONT)

:10

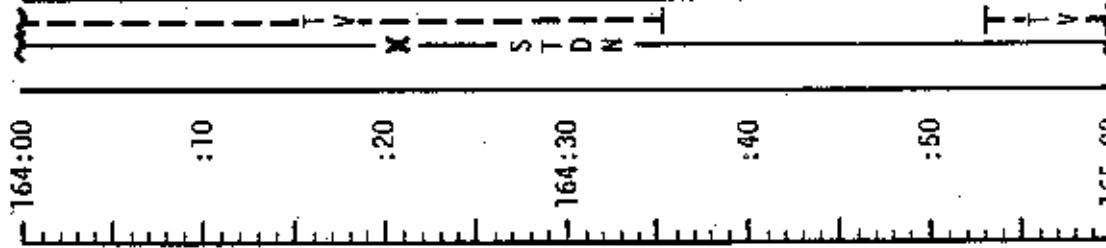
:20

164:30

:40

:50

165:00



+1:10

+1:40

+1:50

+2:00

+2:10

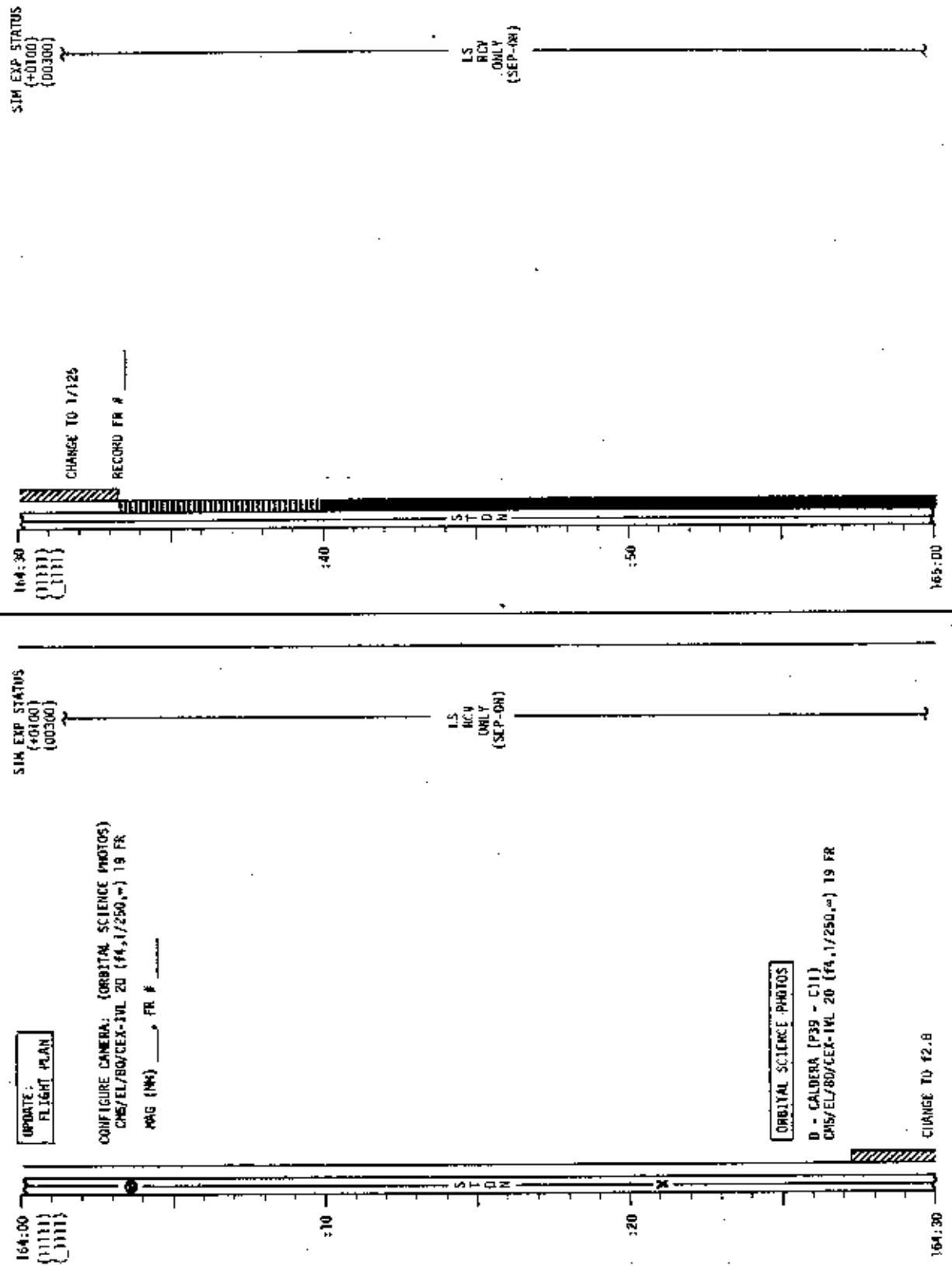
+2:20

STATION #7
GEOLOGICAL OBSERVATIONS & PHOTOS
RAKE SAMPLE
DOCUMENTED SAMPLES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	164:00 - 165:00	8/39	3-228

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (17.6)	10/23/72	3-229

LM FLIGHT PLAN

MCC-H

1753 CST

CDR

LMP

NOTES

STATION #7 (CONT)



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CSM FLIGHT PLAN

SIN EXP STATUS

SIN EXP STATUS

145:00 -

JULY 1995

165:30 - DG:94

— 1 —

CHIPS: (LOS)
DSE RECORD

-10-

PARTICLE FOR ORBITAL SCIENCE VUEALS
LANDING SITE (C95)
D-CALIBRA (C96)

L5
RCU
GHWY
(SEP-04K)

L5
RCH
ONLY
(LFB-PW)

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ACQ STON DMW B

4015
150
(\$04)
:500.

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MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL [12/6]	10/23/72	3-231

LM FLIGHT PLAN

CDR

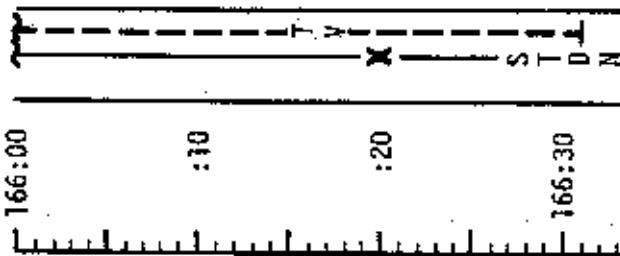
1853 CST

MCCCH

NOTES

+3:20

STATION #8 (CONT)



+3:30

+3:40

+3:50

+4:00

+4:10

+4:20

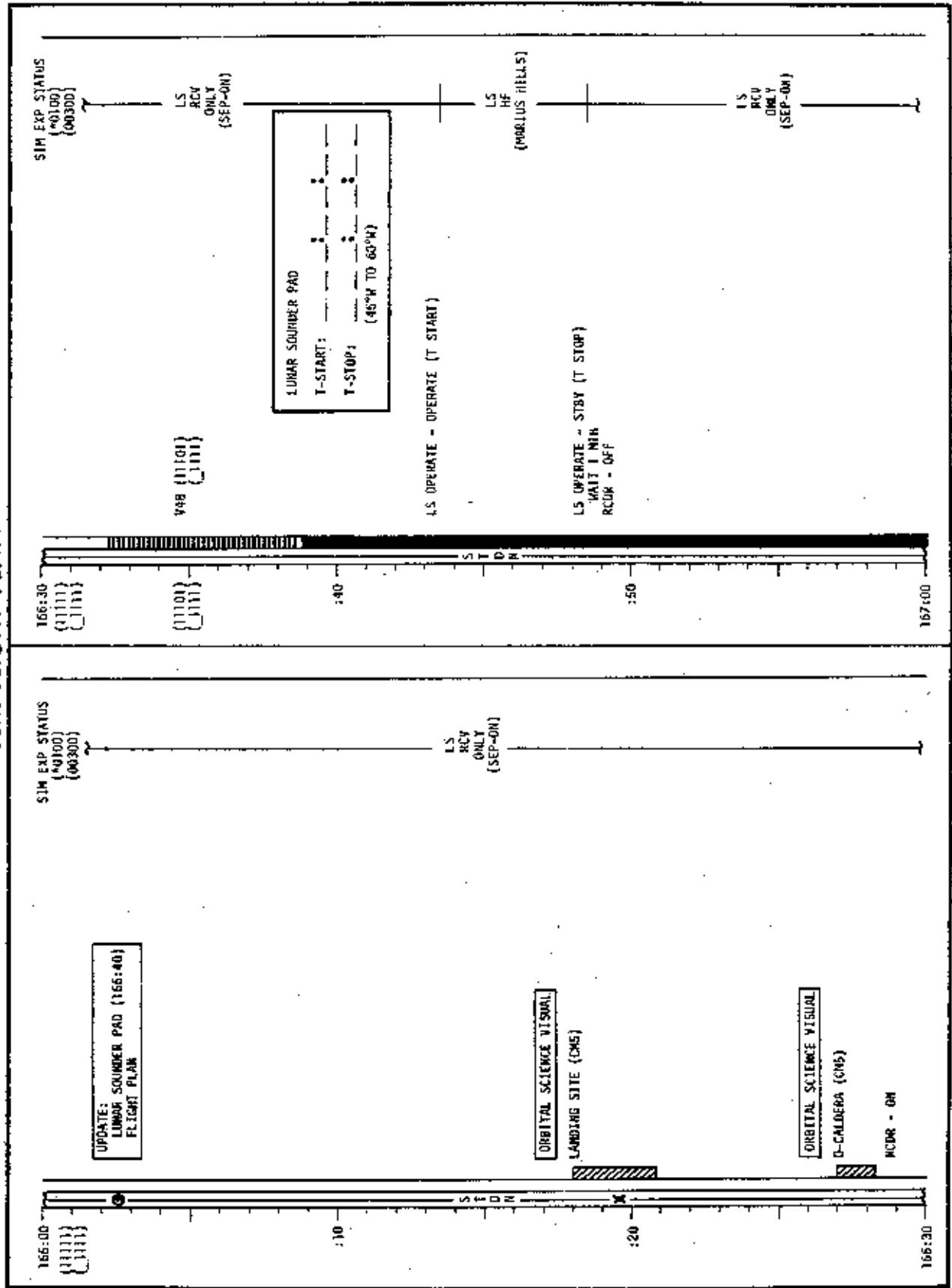
DRIVE TO STATION #9

STATION #9
GEOLOGICAL OBSERVATIONS & PHOTOS
DOCUMENTED SAMPLES

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	166:00 - 167:00	8/40	3-232

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-733

LM FLIGHT PLAN

MCC-H

1953 CST

CDR

LMP

NOTES

STATION #9 (CONT)

167:00

:10

:20

167:30

:40

:50

168:00

+4:30

+4:40

+4:50 CSM REV 41

+5:00

+5:10

+5:20

DRIVE TO STATION #10
LRV SAMPLE EN ROUTE

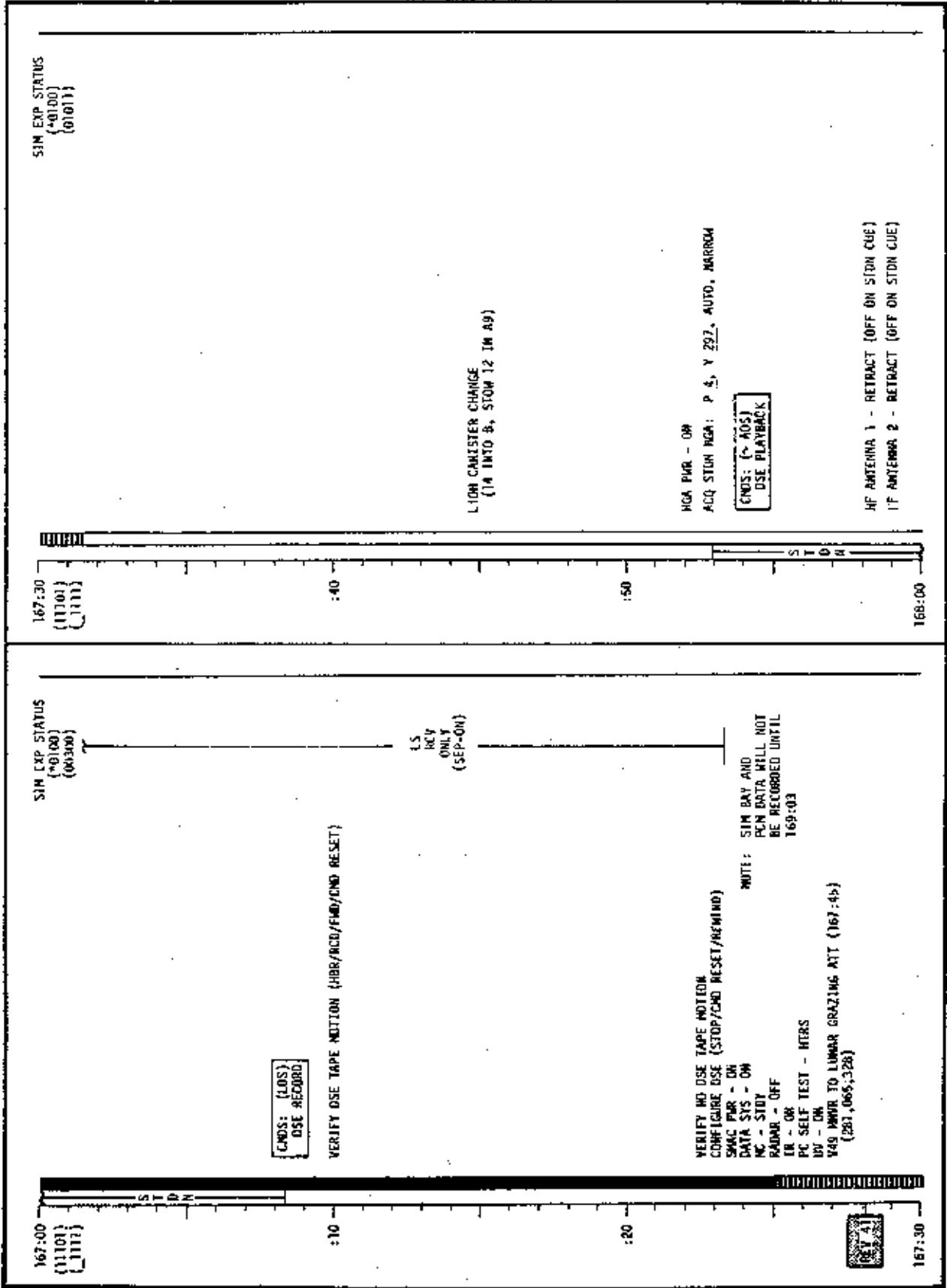
S T D N

STATION #10
GEOLOGICAL OBSERVATIONS & PHOTOS
CORE SAMPLE
DOCUMENTED BOULDER SAMPLES

FLIGHT PLANNING BRANCH

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	167:00 - 168:00	8/40-41	3-234

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCC-H

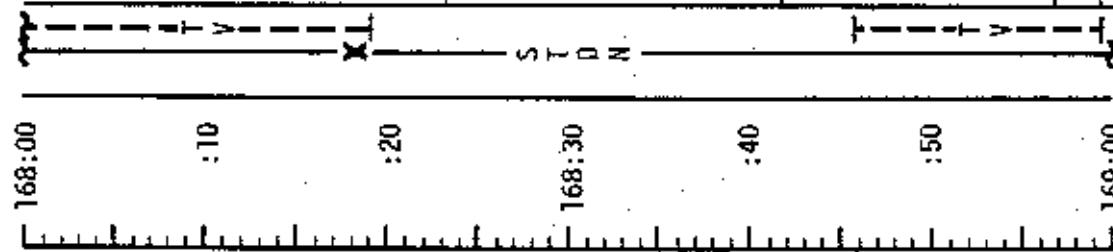
2053 CST

CDR

LMP

NOTES

STATION #10 (CONT.)



+5:10

+5:40

+5:50

+6:00

+6:10

+6:20

DRIVE TO LM
EP DEPLOY EN ROUTE

TRAVERSE TERMINATION TRAVERSE TERMINATION

RETRIEVE COSMIC RAP EXP

WALK TO ALSEP

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	168:00 - 169:00	8/41	3-236

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

PC: **MONDE - STER**

SIN EXP. STATUS

IN EXP STATUS

INC : PWR - OFF (CUE)
IN COVER - OPEN
IN COVER - OPEN

11

2

208

CRUS: (AOS +6) MIN)
DSC REWIND

PDR, 6/14/15, 5 10 AM SIS HIS

W78

MISSION	EDITION	DATE	PAGE
APO19-17	FINAL (12/16)	10/23/72	J-237

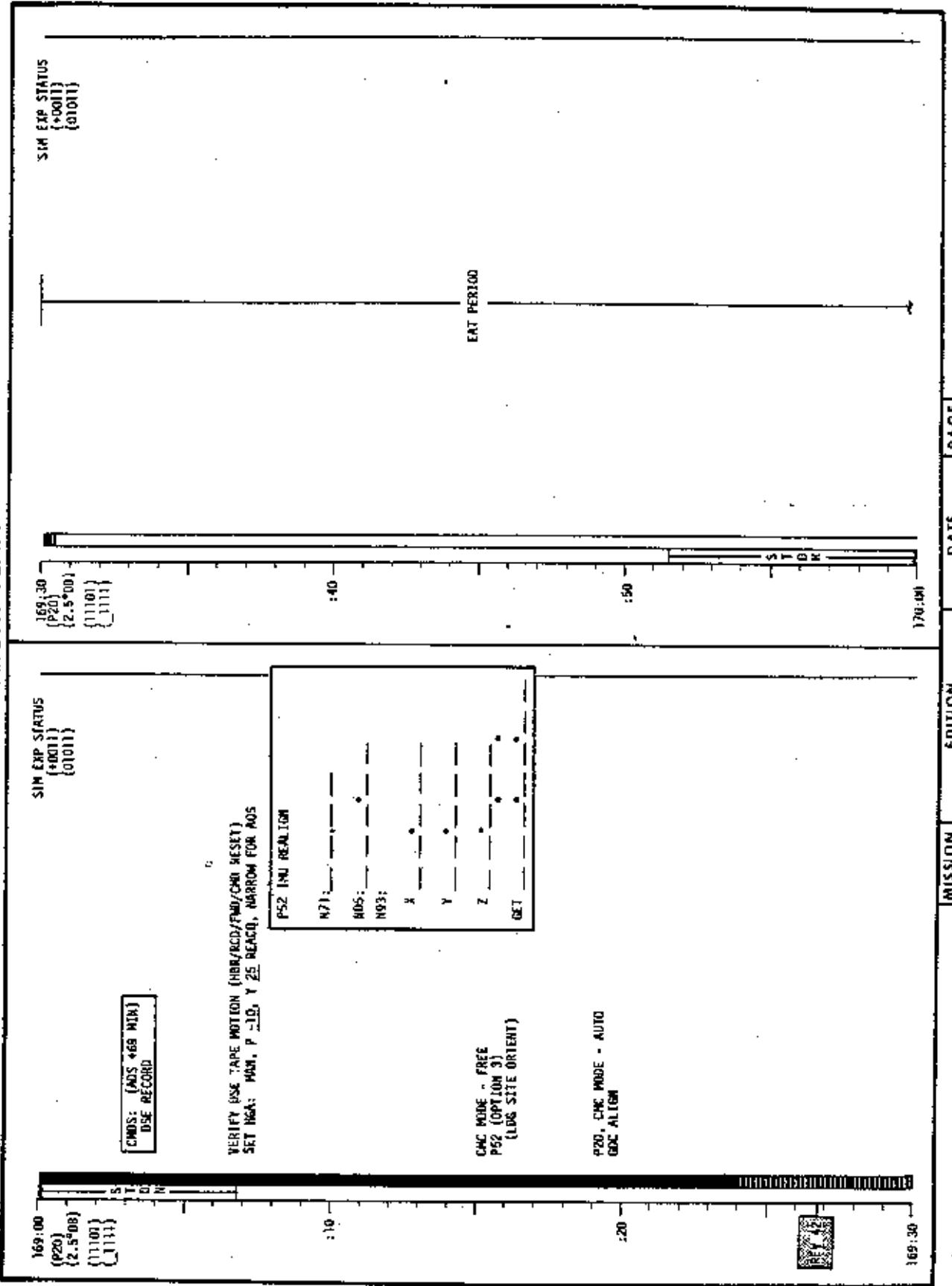
LM FLIGHT PLAN

MCC-H	2153 CST	CDR	LMW FINAL DISPOSITION	LMP	NOTES
	169:00	T	RETRIEVE NFE		+6:20
	:10		RETURN TO LM		
	:20		DEACTIVATE SEP EP DEPLOY		+6:30
		V	RETURN TO LM		
	169:30	S	CLEAN EMU'S	CSM REV 42	+6:40
	0	D	INGRESS	+6:50	
	N		TRANSFER EQUIP & SAMPLES		
			TRACKING LIGHT TEST		
	:40	I	LM REPRESS	+7:00/END EVA-3	
			POST EVA-3 SYSTEMS CONFIGURATION		
			DOFF HELMETS & GLOVES		
	:50		CONNECT TO LM COMM		
			BIOMED - LEFT		
	170:00		PLSS/OPS DOFFING		

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	169:00 ~ 170:00	8/41-42	3-238

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-239

LM FLIGHT PLAN

CDR

REPORT: OPS PRESSURE

2253 CST

170:00

+10

X

-

:20

X

-

S

T

D

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NOTES

PKS 210' AOS

LMP

PREP FOR EQUIPMENT JETT

WEIGH ROCK BAG & COLLECTION BAGS, REPORT: WEIGHTS

DON GLOVES

RECORDER - ON/VOX

PRESSURE INTEGRITY CHECK

CABIN DEPRESS

JETTISON #1

CABIN REPRESS

BATTERY MGT
BATS 1 & 2 - ON
LUNAR BAT - OFF/RESET

RECORDER - OFF

GO/NO-GO FOR
DEPRESS

:40

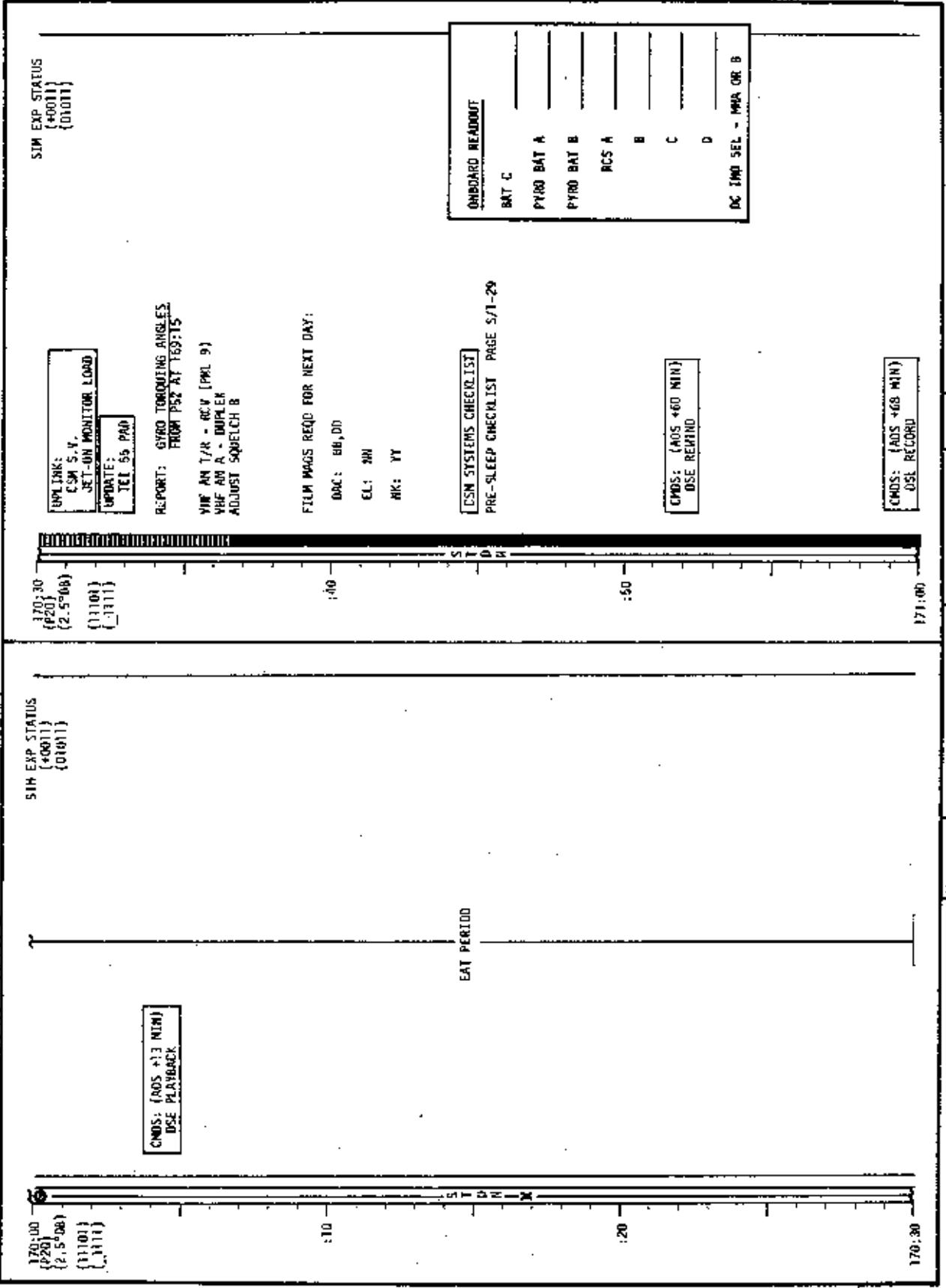
:50

171:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	170:00 - 171:00	8/42	3-240

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

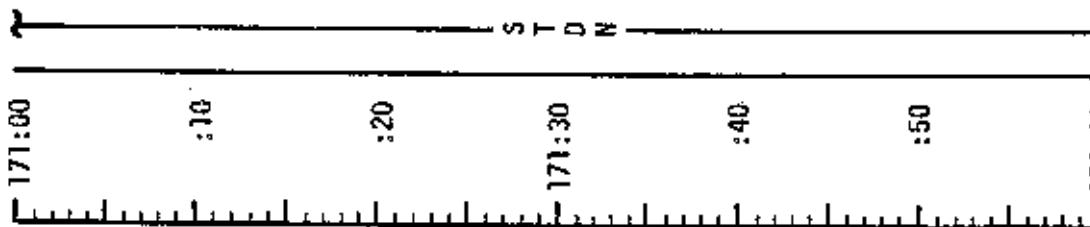
2353 CST

MCC-H

LMP

NOTES

	MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	171:00 - 172:00		8/42-43	3-242



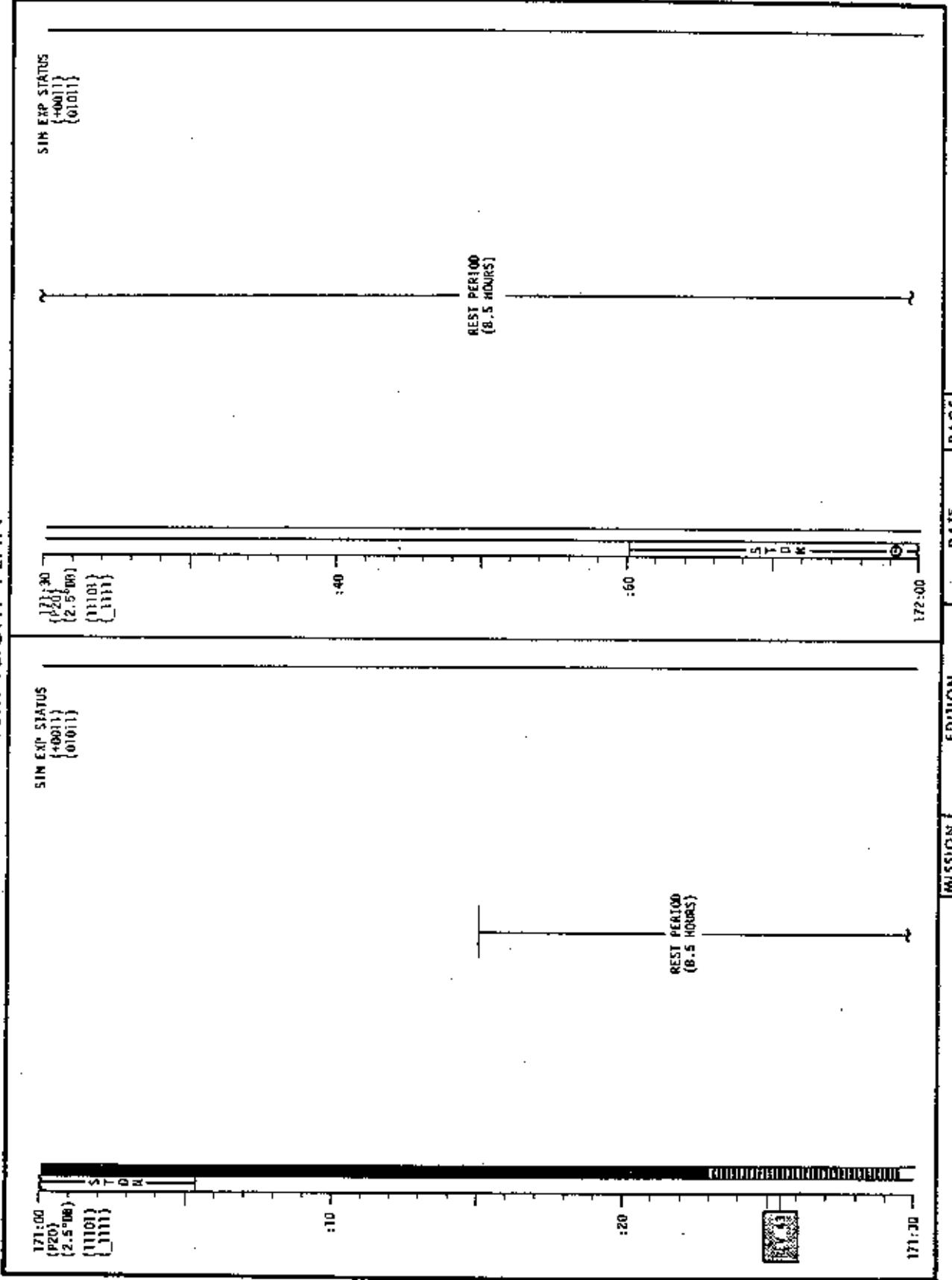
CSM REV 43

ACTIVATE LGC FOR CLOCK RESET, LGC TO STANDBY
EVA-3 DEBRIEFING

UPDATE TO LM
LIFT-OFF TIMES FOR
REVS 44-50

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

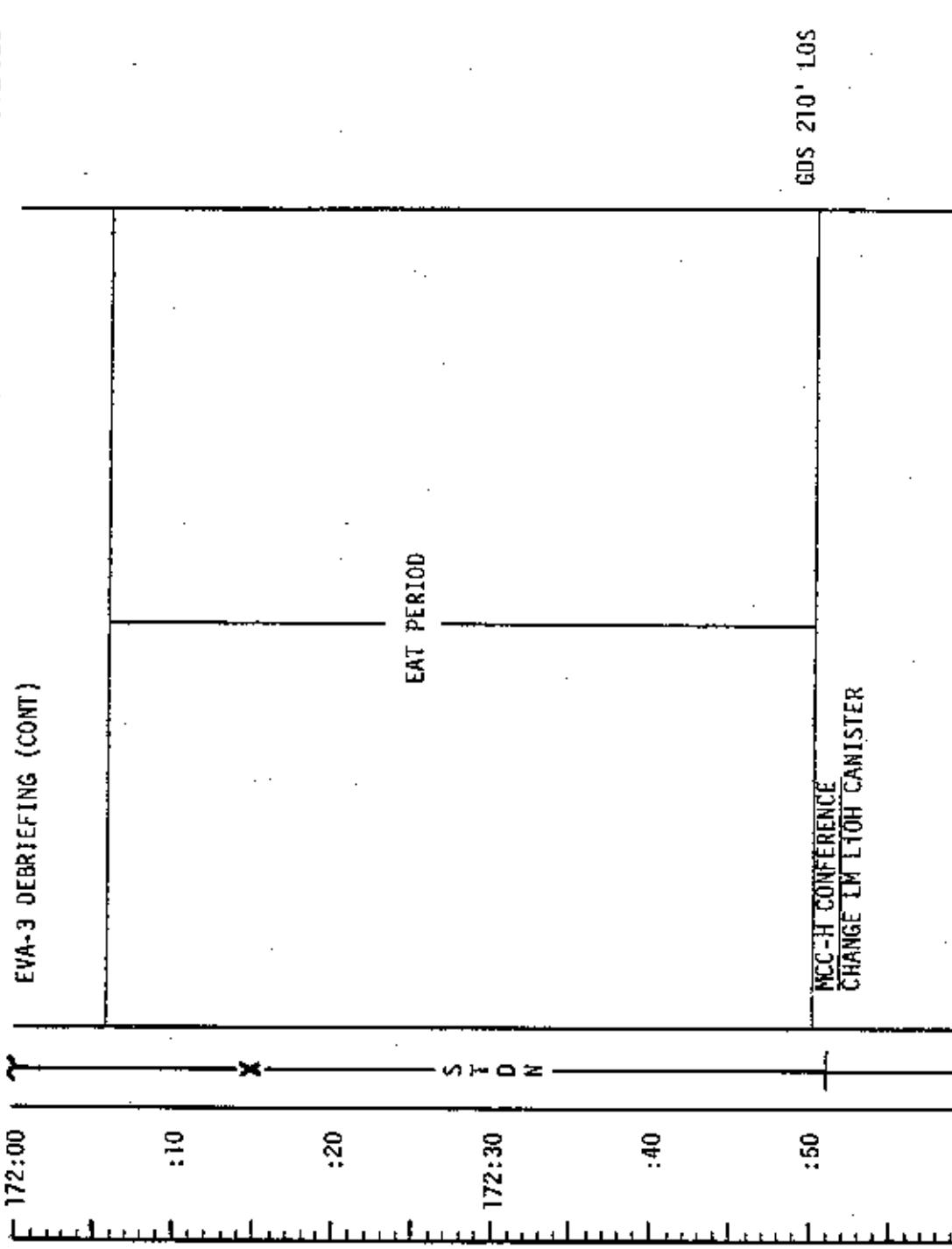
CDR

0053 CST, 12/14

NOTES

EVA-3 DEBRIEFING (CONT)

LMP

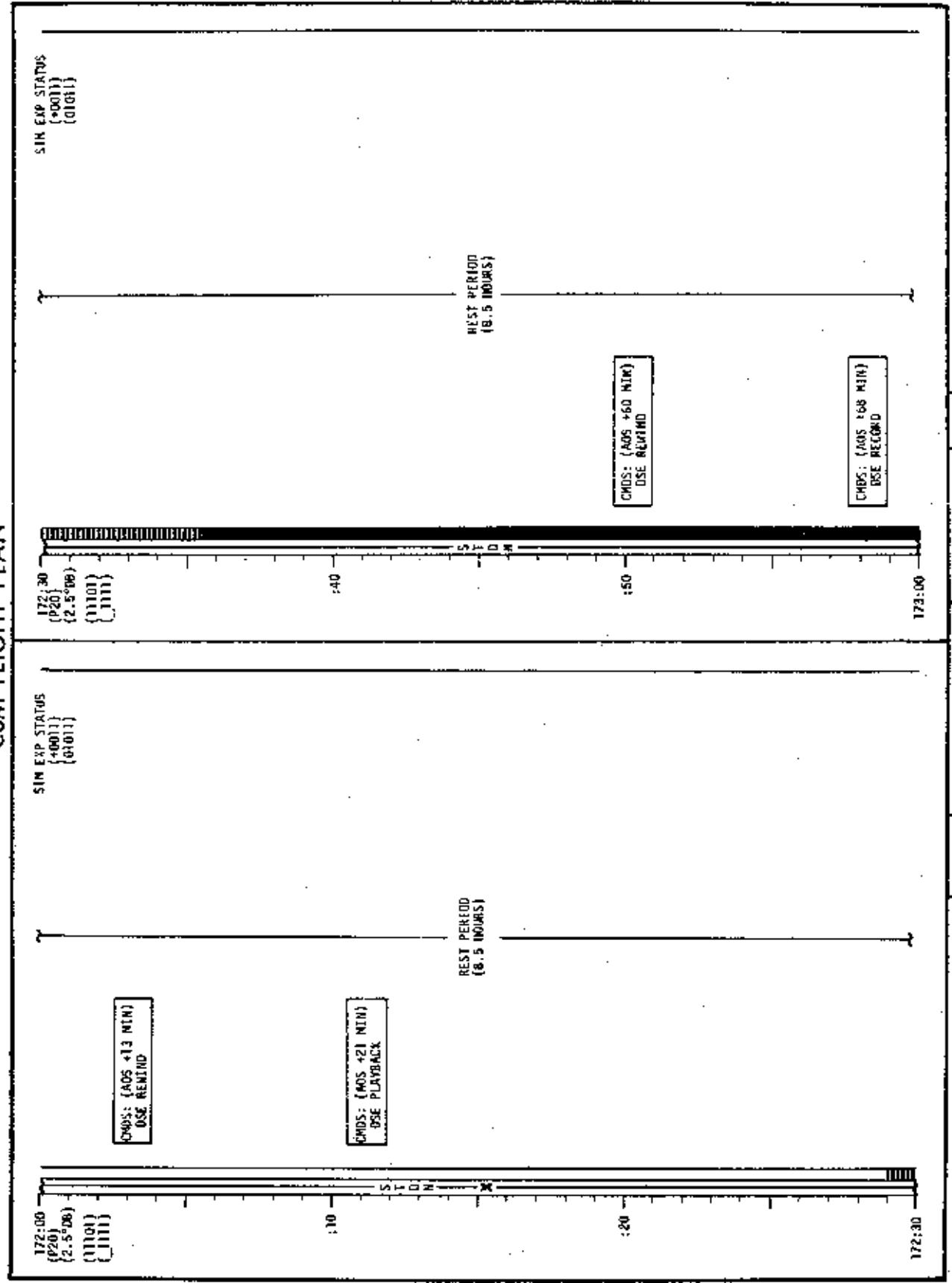


MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	172:00 - 173:00	8/43	3-244

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

NOTES

0153 CST

MCC-H

MCC-II CONF (CONT)

173:00

T

:10

:20

173:30

S

T

D

N

:40

:50

174:00

CSM REV 44

PRESLEEP
WEIGH ISA, REPORT: WEIGHT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	173:00 - 174:00	8/43-44	3-246

FLIGHT PLANNING BRANCH

CCSM FLIGHT PLAN

SIN MIS EASY STAVES

173:30 -
(P20)
{1101}
{1111}
(2,500)

SIM EXP STATUS

5
T

REST PERIOD
(9.5 HOURS)

1116

174/00

173:30

MISSION EDITION DATE PAGE
APOLLO 17 FINAL (12/6) 10/23/72 3-247

LM FLIGHT PLAN

CDR

NOTES

LMP

PRE-SLEEP (CONT)

0253 CST

MCC-H

174:00

T

:10

X

:20

S

T

D

N

174:30

:40

:50

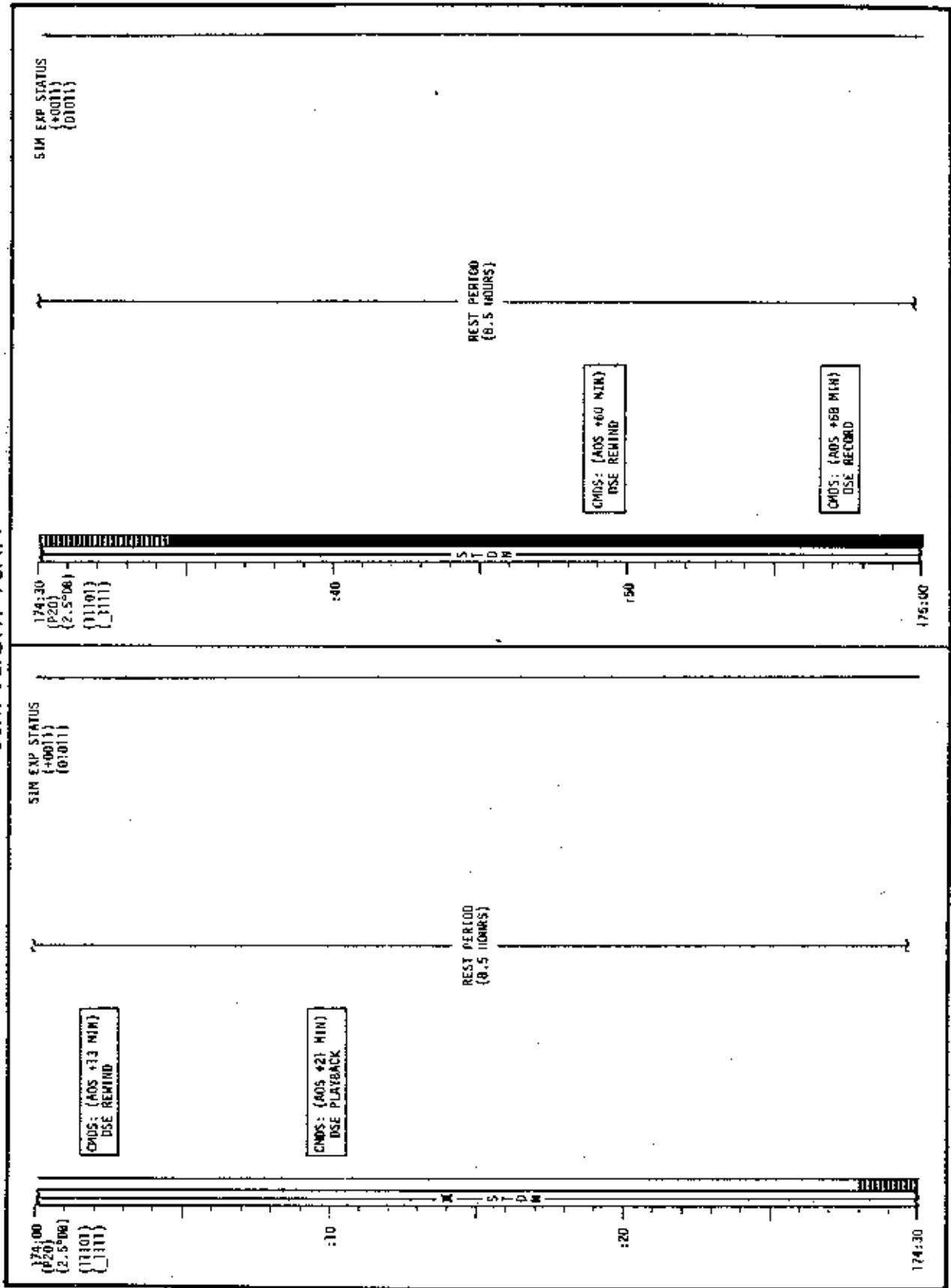
175:00

REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	174:00 - 175:00	8/44	3-248

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
Apollo 13	Final (17/6)	10/7/72	3-249

LM FLIGHT PLAN

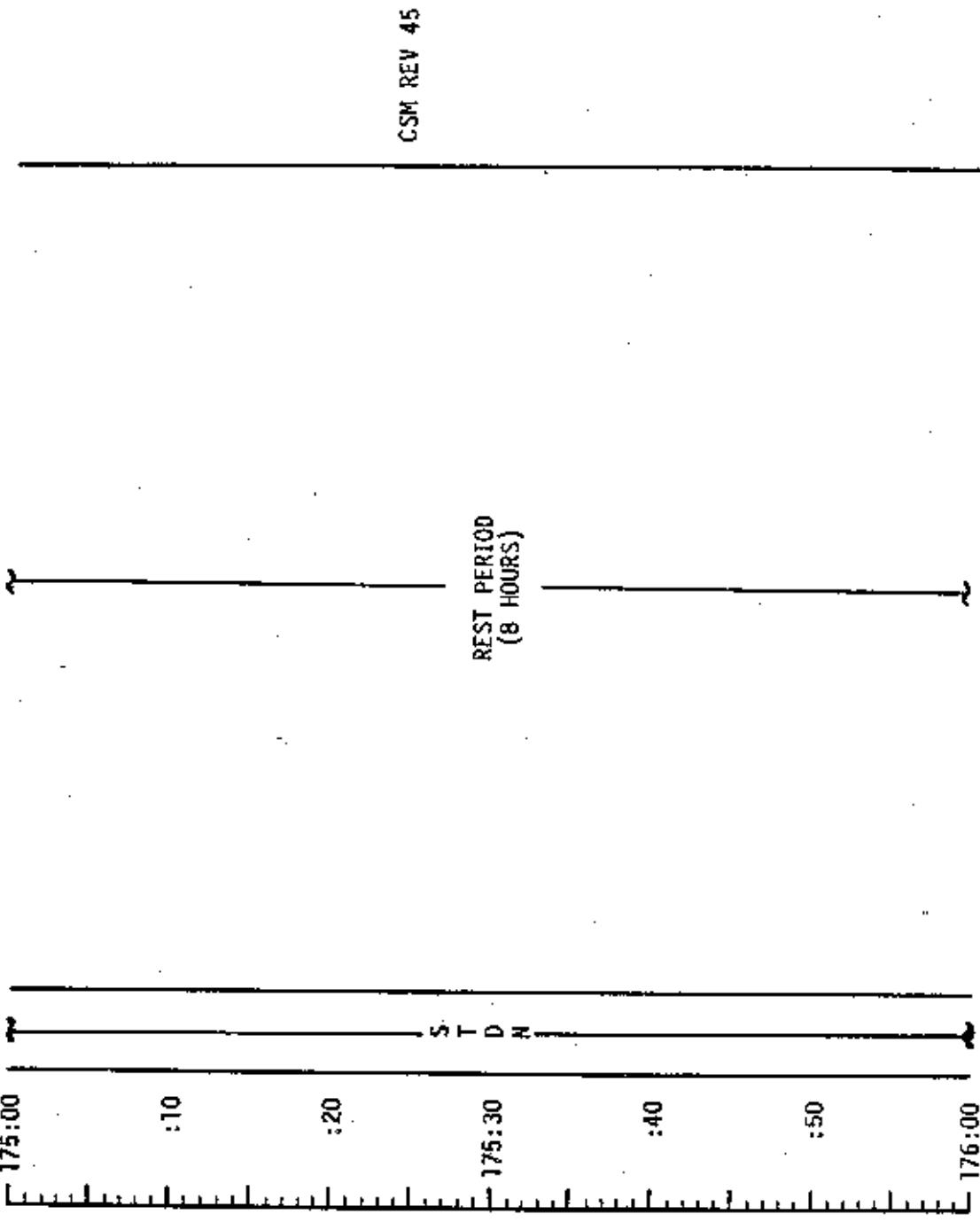
NOTES

LMP

CDR

0353 CST

MCC-H

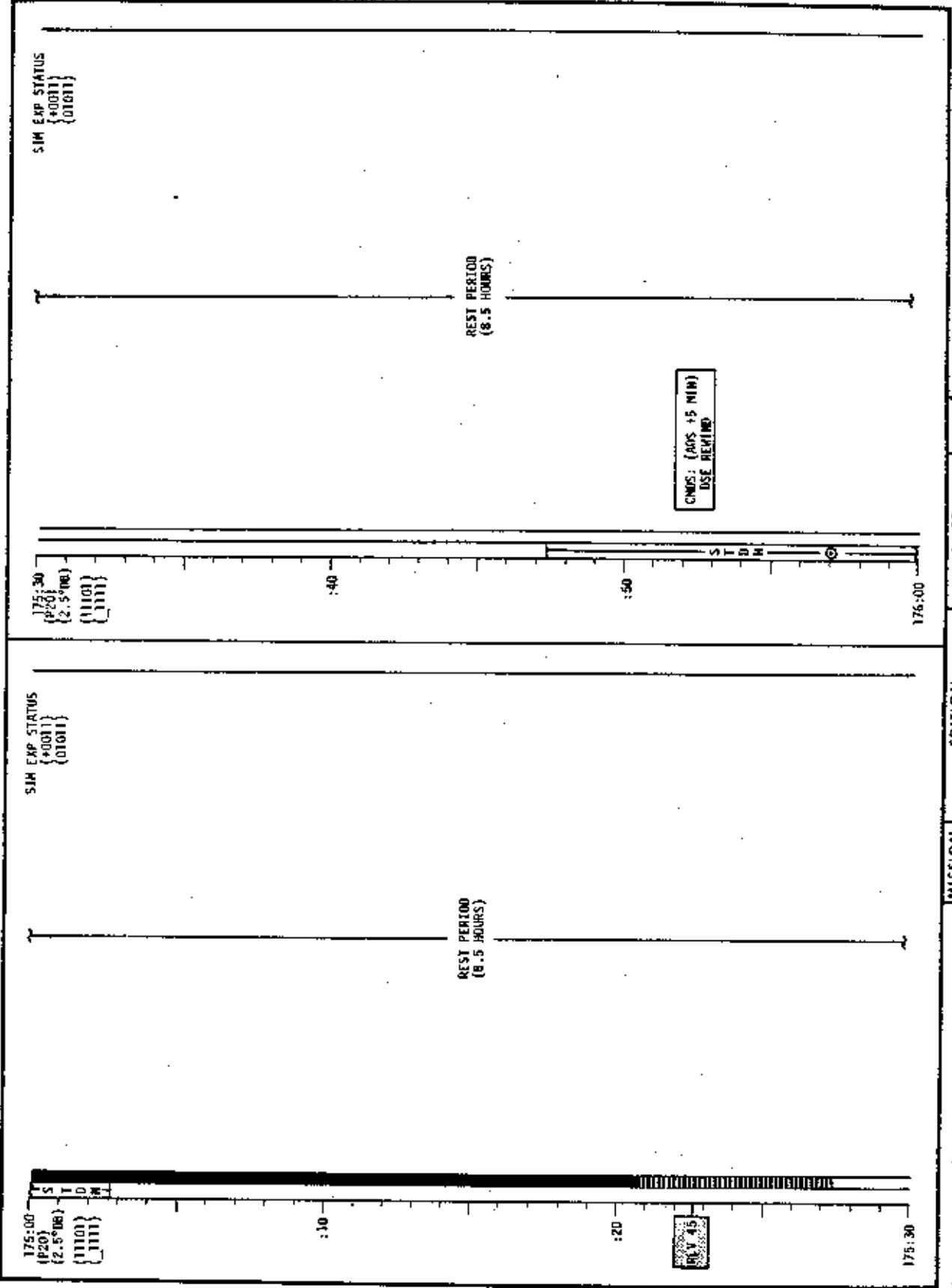


CSM REV 45

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	175:00 - 176:00	8/44-45	3-250

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

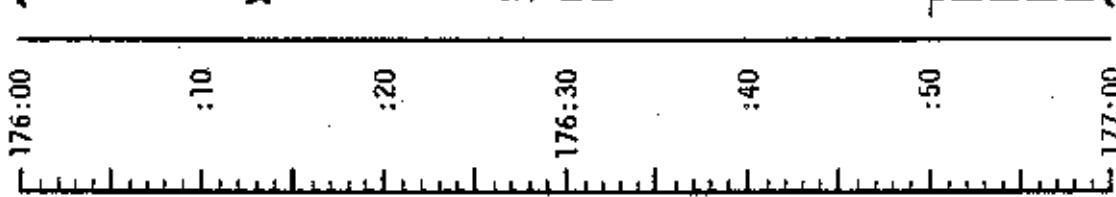
MCC-H

0453 CST

CDR

NOTES

LMP

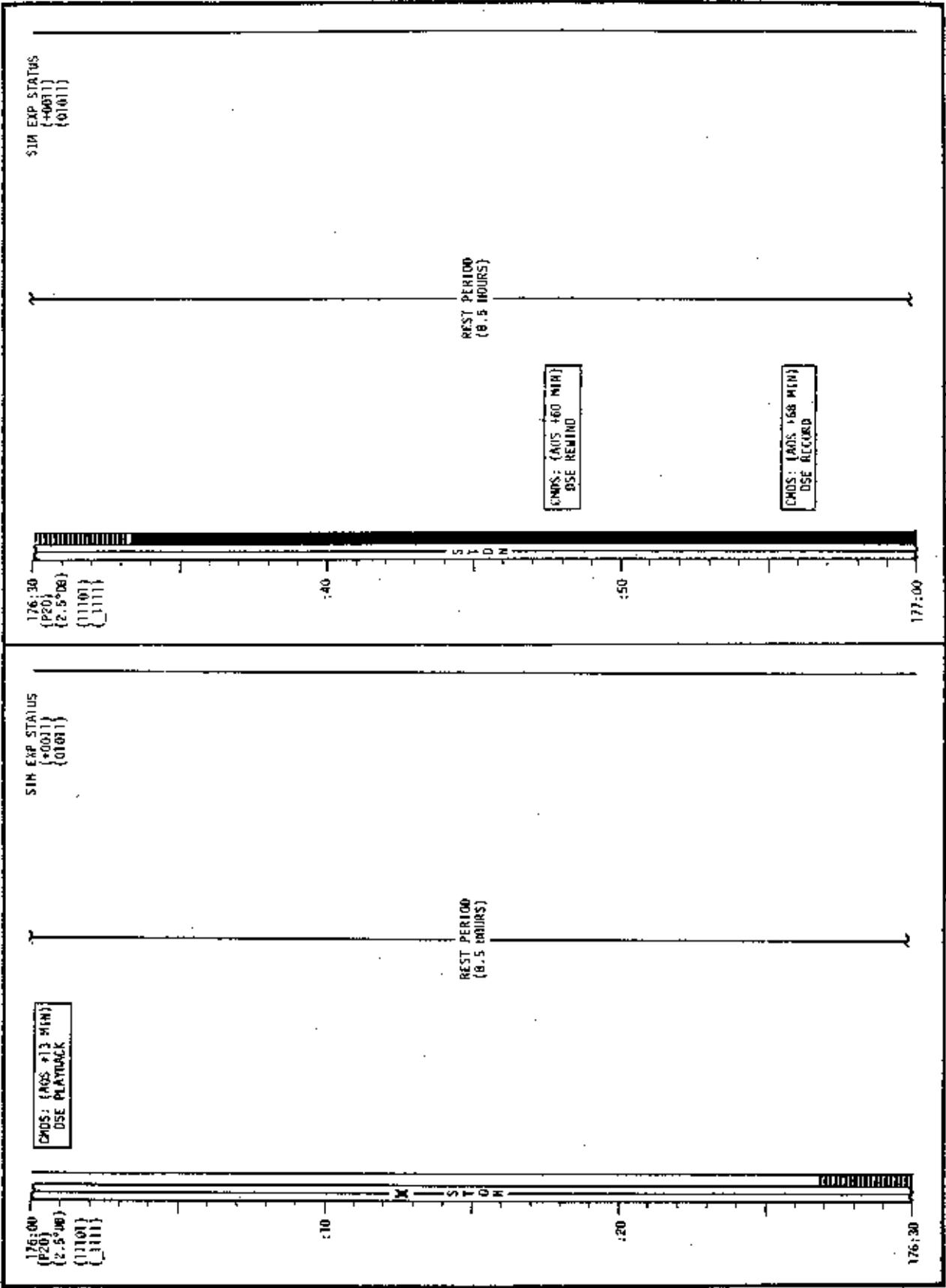


REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	176:00 - 177:00	8/45	3-252

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

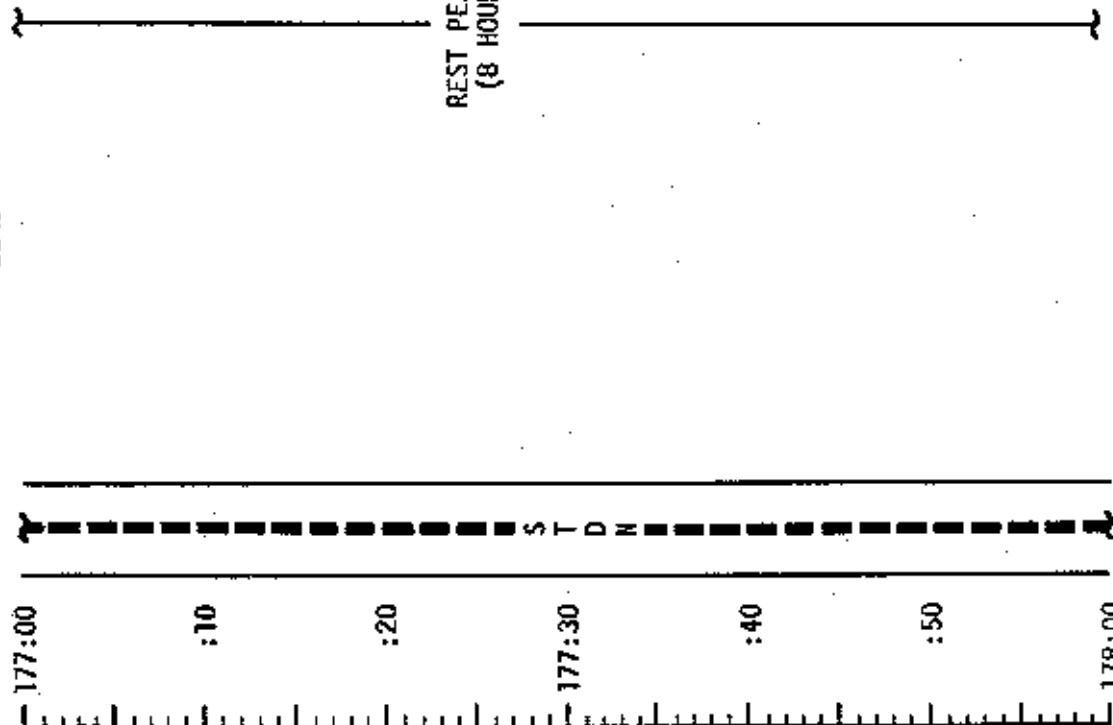
0553 CST

MCC-H

NOTES

LMP

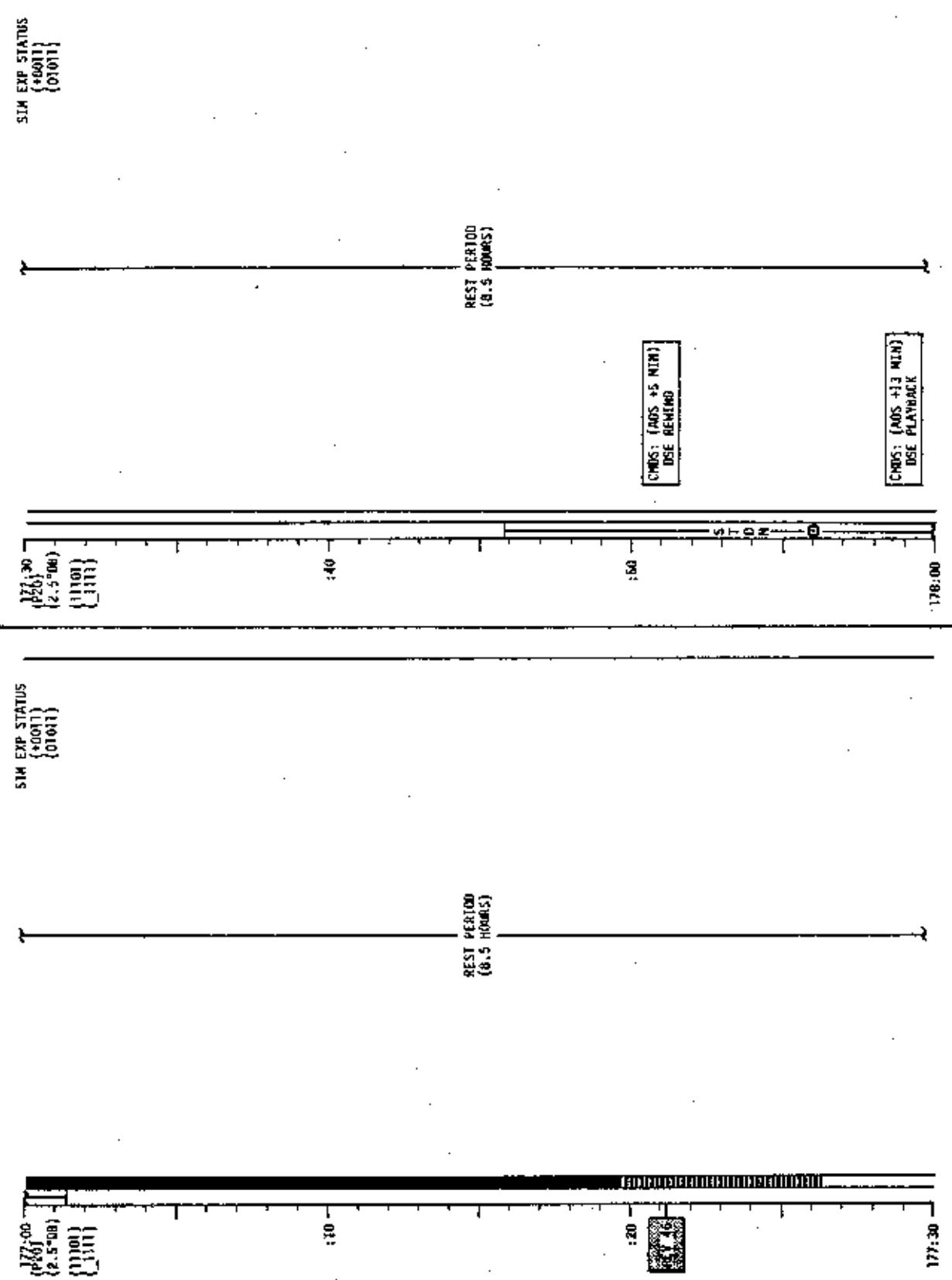
CSM REV 46



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	177:00 - 178:00	8/45-46	3-254

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	1-255

LM FLIGHT PLAN

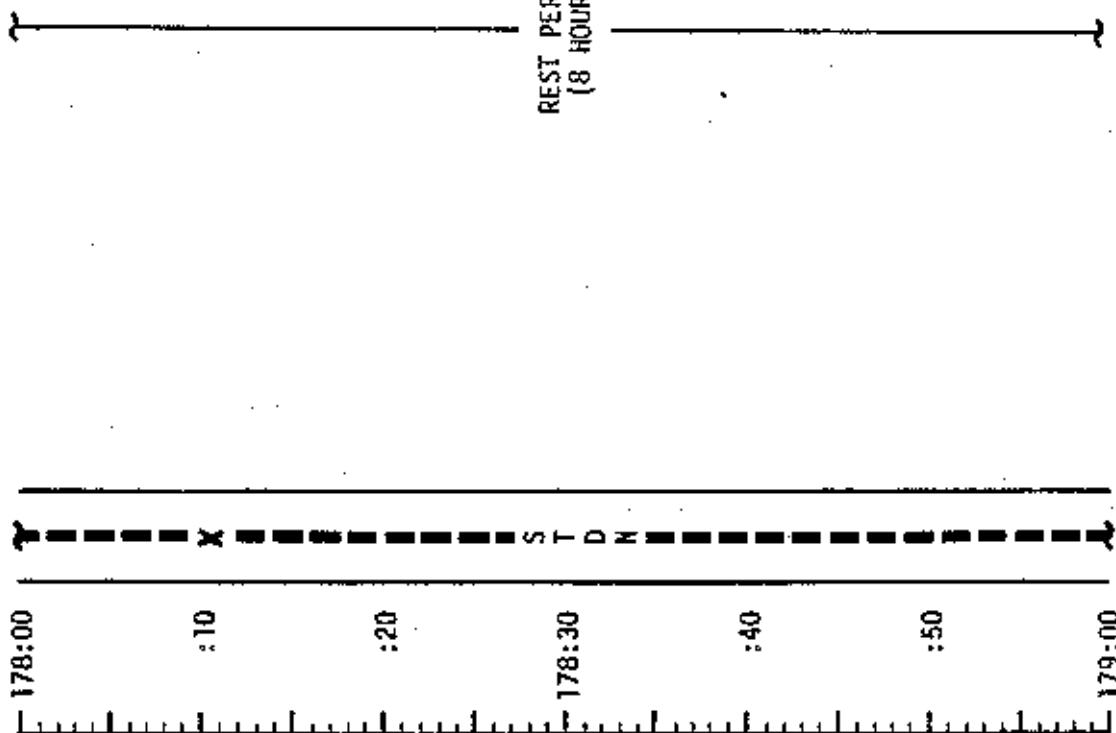
CDR

0653 CST

MCC-H

NOTES

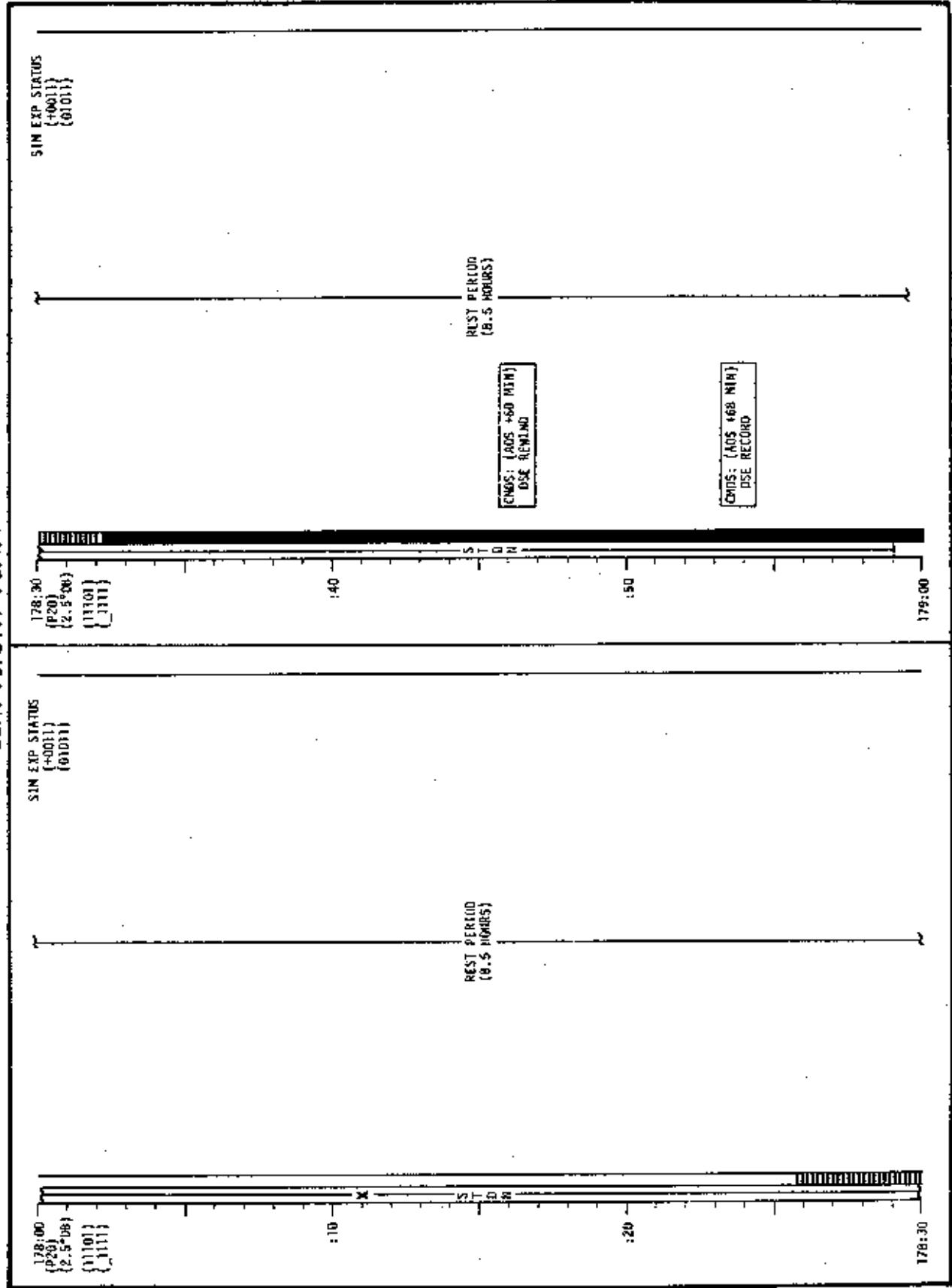
LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	178:00 - 179:00	8/46	3-256

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-257

LM FLIGHT PLAN

CDR

0753 CST

MCC-H

179:00

:10

:20

179:30

:40

:50

180:00

LMP

NOTES

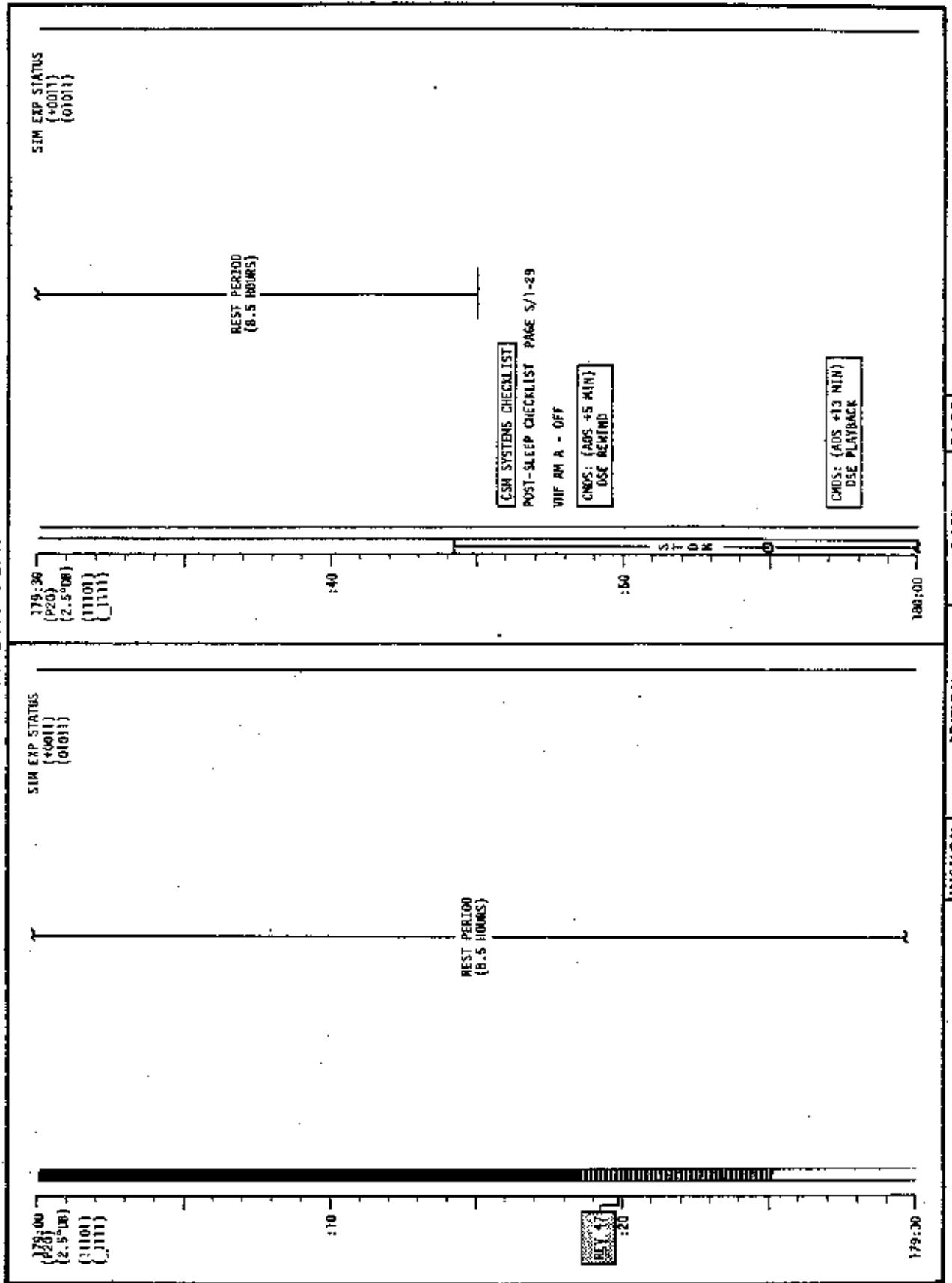
CSM REV 47

REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	179:00 - 180:00	8-9/46-47	3-258

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

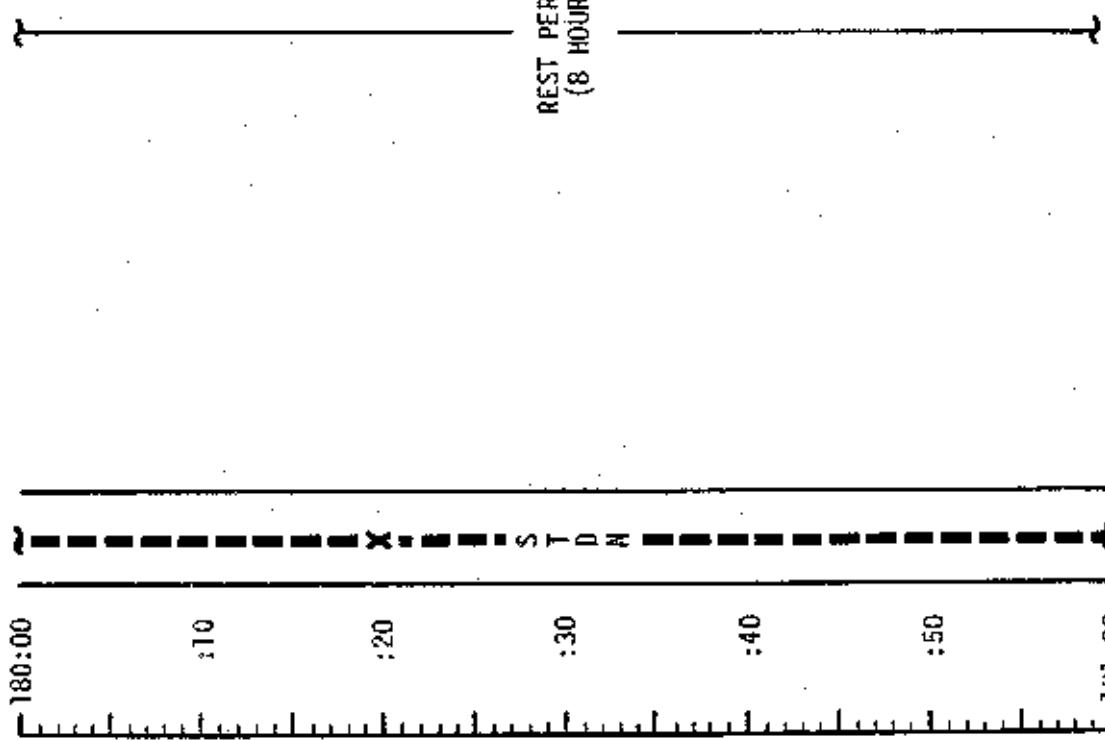
CDR

0853 CST

MCC-H

NOTES

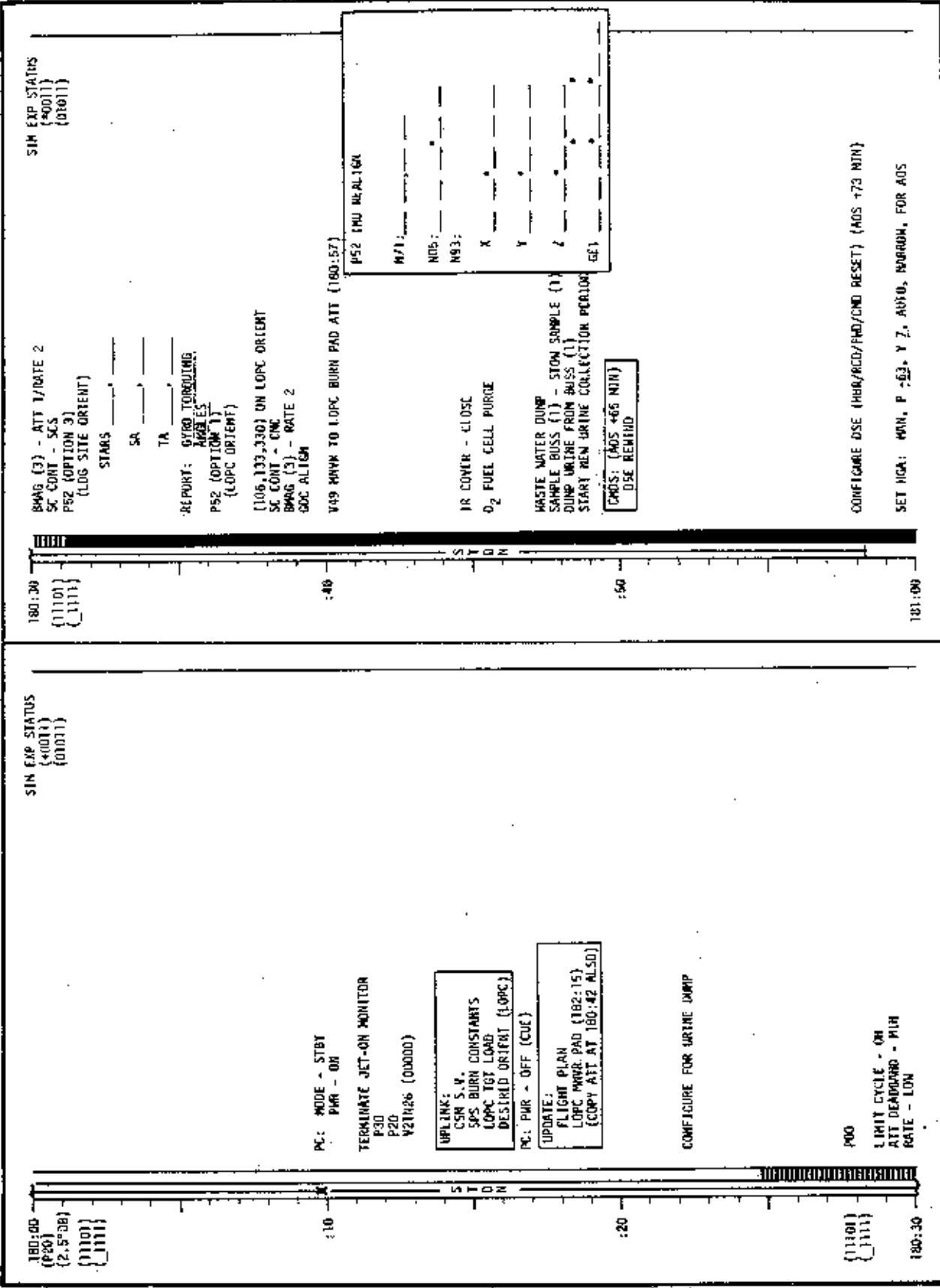
LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	180:00 - 181:00	9/47	3-260

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCC-H

0953 CST

CDR

NOTES

CSM REV 48

LMP

T

181:00

:10

:20

:30

:40

:50

182:00

REST PERIOD
(8 HOURS)

S

T

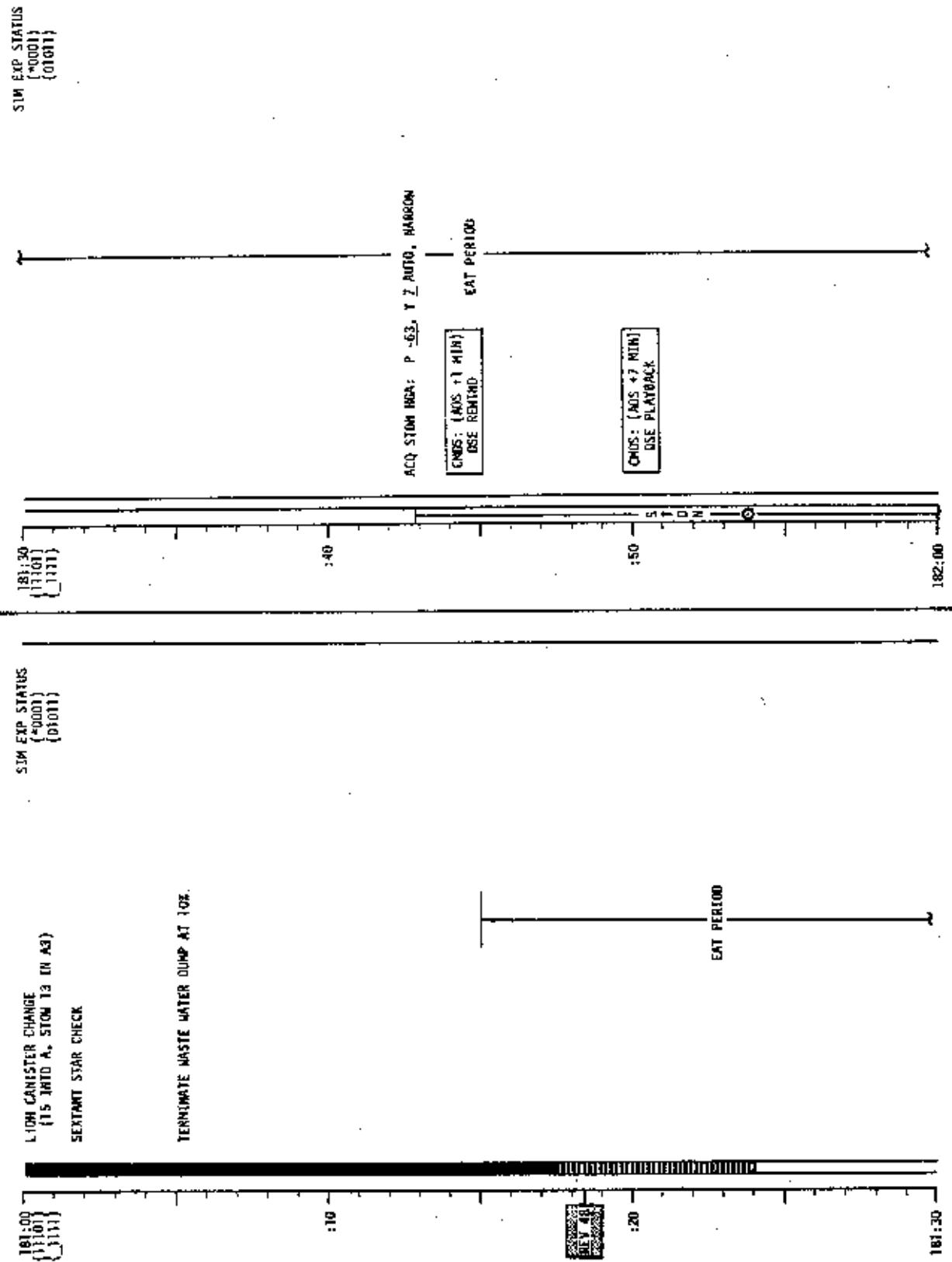
D

N

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	181:00 - 182:00	9/47-48	3-262

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-263

LM FLIGHT PLAN

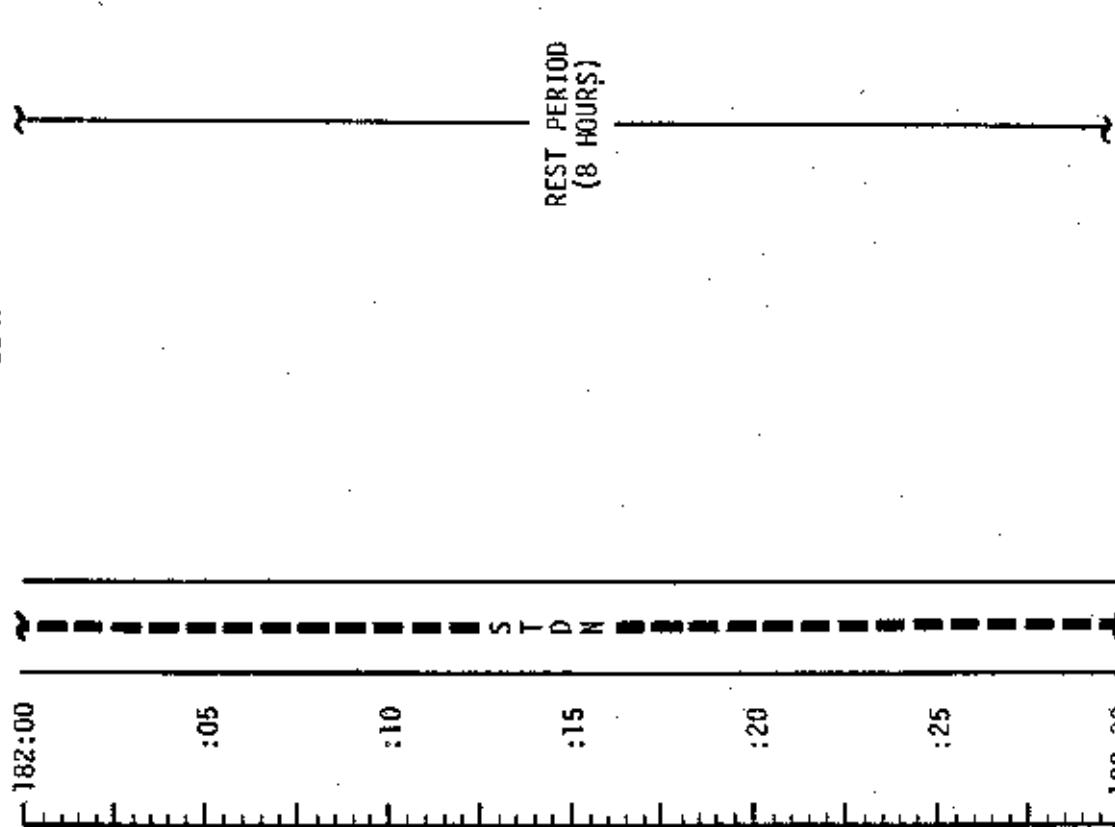
三

1053 CST
182:00

24

四

NOTES



REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	182:00 - 182:30	9/48	3-264

FLIGHT PLANNING BRANCH

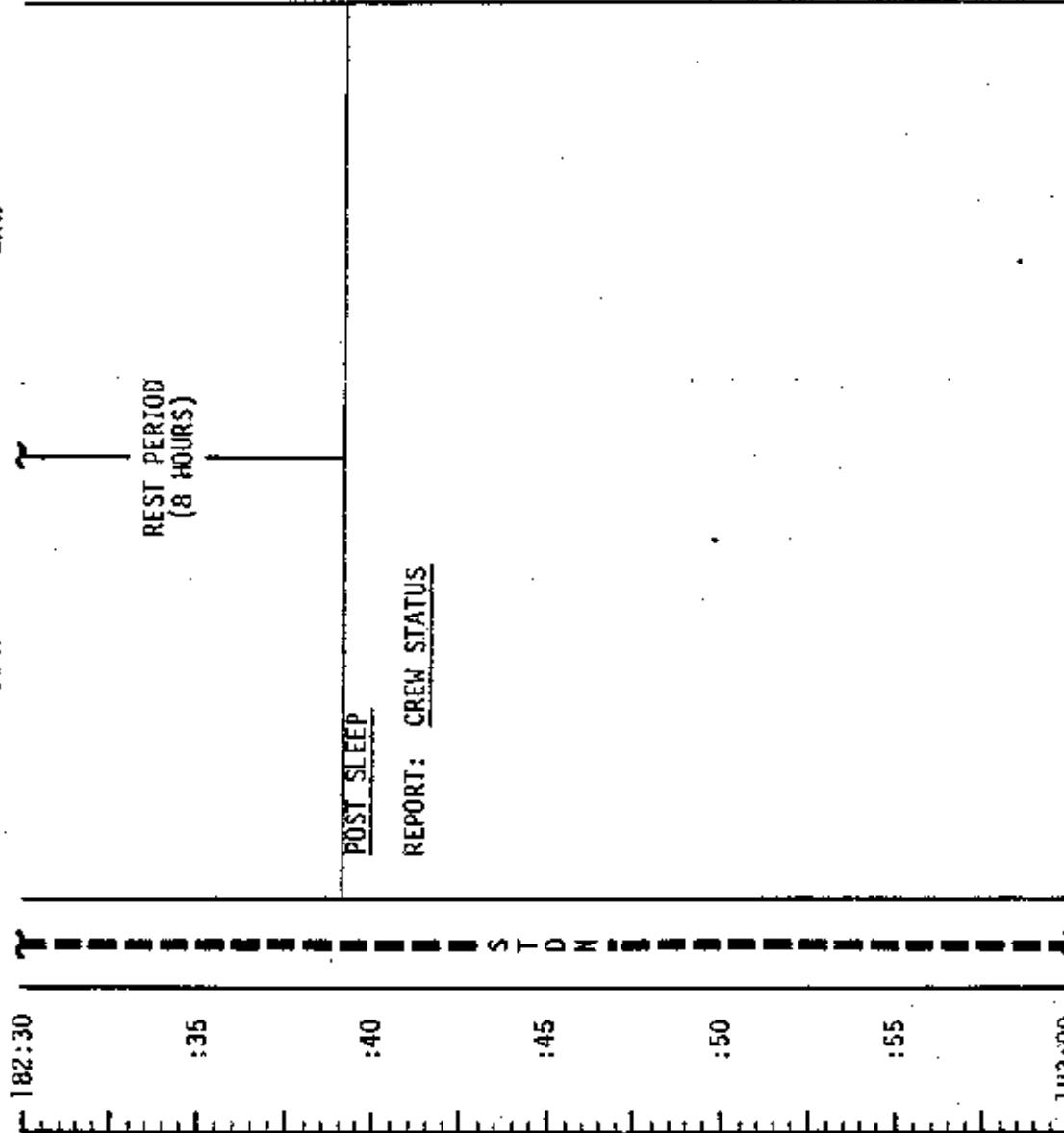
LM FLIGHT PLAN

CDR

1123 CST

MCC-H

NOTES

STAY/NO-STAY FOR
JETTISON #2

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	182:30 - 183:00	9/48	3-266

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

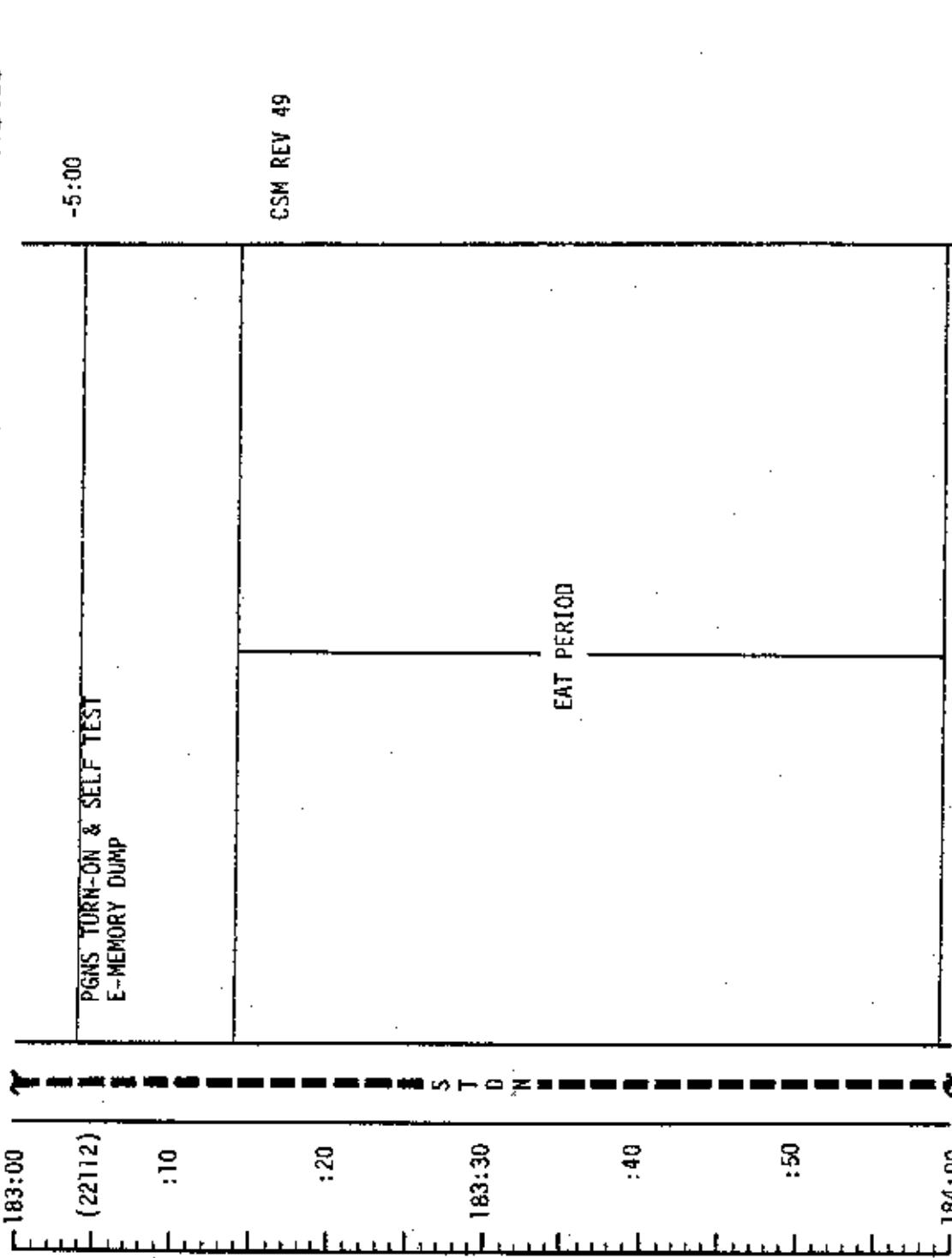
CDR

1153 CST

MCC-H

NOTES

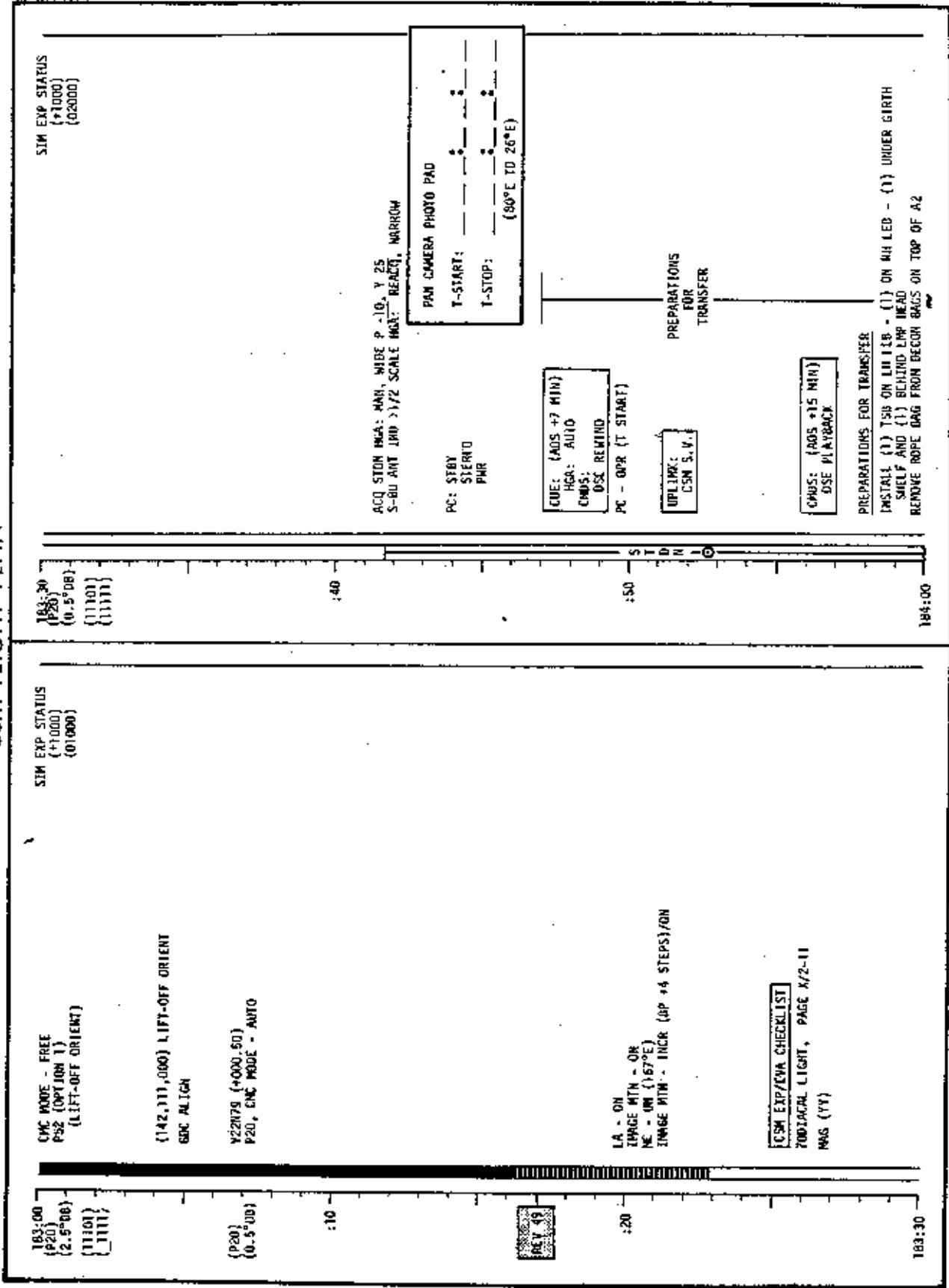
LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	183:00 - 184:00	9/48-49	3-268

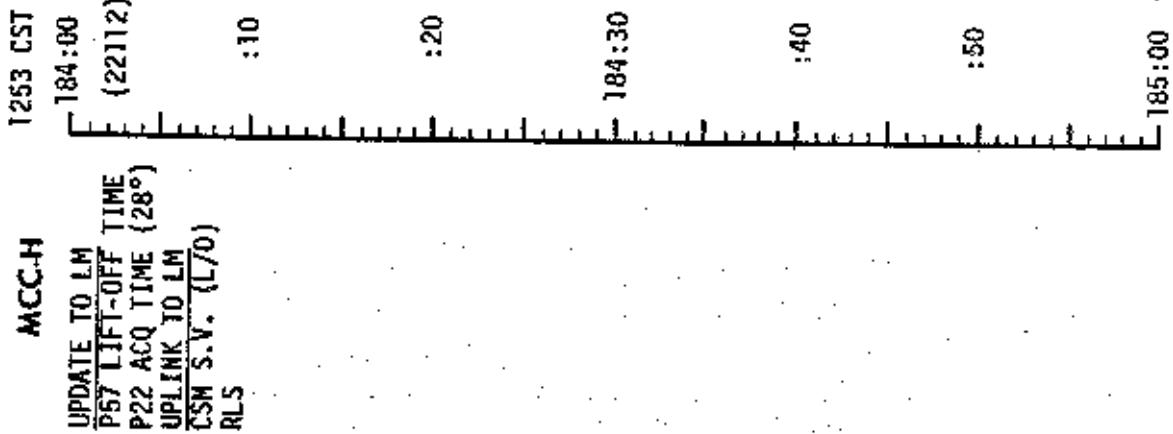
FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCCM CDR LMp NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	184:00 - 185:00	9/49	3-270

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIM EXP STATUS

- (0000)
- (01000)
- (220800)
- (010000)

SIN EXP STATUS

- (+1000)
- (-1000)
- (220800)
- (-1000)

184:00

STOW ROPE IN RH TSB
REMOVE DECON BAG STRAPS FROM TOP OF A2 & HANG
ON L3
REMOVED (2) JETTISON BAGS, (1) VACUUM BAG AND VACUUM CABLE FROM A2
STOW EMPTY JETT. BAG, VACUUM BAG & CABLE IN LH TSB
PLACE REPAIRING JETT. BAG ON A2 AND LIDD WITH THE FOLDING:
LION CANS & PARTITIONS FROM A9
WASTE FOOD BAGS, FECAL BAG (12 PACK), HEAT FLUX IN BAG,
FROM A7
RELENT SHIELD FROM CMF HELMET
USED CMS'S-4 FROM A8
USED ICG-1 FROM U2
USED TISSUES, TOWELS AND MISCELLANEOUS WASTE

184:10

PC - STOP (IT STOP) (100E) :10

184:20

UPDATE: ZOOLACAL LIGHT PHOTO PAD
P24 LUNK TRACK PADS (F-1 & 17-1) (185:50)

184:30

Y49 MHVR TO ZOOLACAL LIGHT PHOTO ATT (184:55)
(024,072,004)

184:40

ANDZ XPMR ACTIVATION AND SELF TEST (DEEAL)

184:50

CSM 114 VALUES

A	1.75 AGE
B	2.35 SELF TEST
C	0.3 UNLOCKED
D	4.9 LOCKED

REND XPMR = HTR

CHDS: (AOS +65 MIN)
DSE RENTRD.

184:55

DATA SYS - OFF

CONFIGURE DSE (LBB/RED/DMO/DMO RESET)(AOS +73 MIN)

AUTO RCS SELECT: A3, G3, C4, D4 - OFF

P20 OPT 2 (ZOOLACAL LIGHT)

WTB (+096,00)

N79 (-0,0500)

N34 (-000,50)

T-START: (184:55)

PHOTOGRAPHIC LIGHT PHOTO PAD(SR)

ZOOLACAL LIGHT PHOTO PAD(SR)

185:00

PC - OFF (EUE)
MC - OFF (28°W)
UNIT 30 SEC
TMGE MTW - OFF
LA - OFF
AC - RETR
RNDX XPMR = HTR

MCPA COVER - CLOSE
POD AUTO RCS SELECT: A1 & A2 - ON

NOTE: ATTITUDE CONTROL
ALL AXES COUPLED

LM FLIGHT PLAN

CDR

NOTES

MCC-H	1353 CST (22:12)	185:00	PREP FOR EQUIPMENT JETTISON	LMP
		:05	REPORT: PRD	-3:00
		:10	HELMET/GLOVE DOWNING	
		:15	PRESSURE INTEGRITY CK	RECORDE - ON/VOX
		:20	EQUIPMENT JETTISON #2	CSM REV 50
		:25	CABIN DEPRESS	
		185:30	CABIN REPRESS	
			POST-JETTISON CABIN CLEANUP	RECORDE - OFF

GO/NO-GO FOR
DEPRESS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	185:00 - 185:30	9/49-50	3-272

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

185:00
P20
(0.5°/sec)
[H100]
[1111]

START AUTO PITCH RATE
2000 FOCAL LIGHT (POLARIZED FILTER)

SIN EXP STATUS
{+0000}
{01000}

NOTE:
ATTITUDE CONTROL
P & Y AXES UNCOUPLED
R AXIS COUPLED

AUTO RCS SELECT: A3, H3, C4, 04 - OM
P20 OFF S (LDMK TAK ATT) (185.26)
N78 {+000.00}
{-068.00}
{+000.00}
N79 {-+000.50}
(000, 338/007.000)

REV 50
1995-05-22

SET HGT: WAIT, P -2, Y 330 REACQ, NARROW FOR AUS

CONFIGURE CAMERA: (LDMK TAK)
CAPTURE/SAVE/ERASE (EXP PROG) | FPS (BY MAG)
MAG (BB) _____ MAG % _____

185:30

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-273

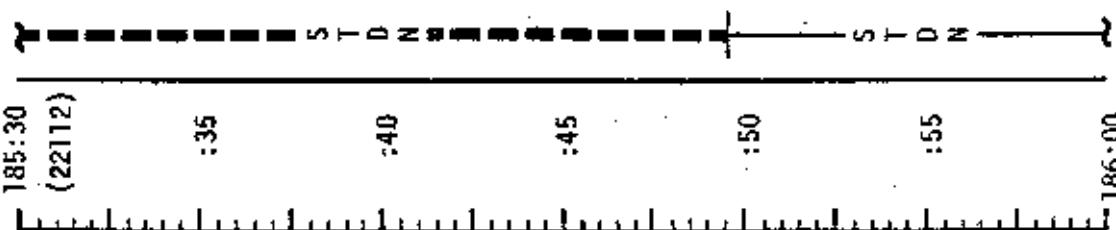
LM FLIGHT PLAN

CDR

POST JETTISON CABIN CLEANUP (CONT)

1423 CST
(22112)

MCCCH



NOTES

LMP

GDS 210° AOS

UPDATE TO LM
ASCENT PADS
CSI PAD
LN DAP WEIGHTS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	185:30 ~ 186:00	9/50	3-274

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

MCC-H

1453 CST
186:00 (2212)

CDR

LMP

VHF VOICE CHECK

:05

RR - OFF
TERMINATE P22
CABIN PREP FOR ASCENT

:10

:15

:20

:25

186:30

S T D N

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	186:00 - 186:30	9/50	3-276

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIM EXP STATUS
186:00 (P00)

3:50 - DDC - DM
4:50 - T2 (LAMP ACQ) OFF MODE - MAN. TAKE MARKS 10 SEC APART

6:30 - TCA
7:18 - 13 (LOPK LOSS) DEC. - OFF

P90

VHF AM B - OFF (CIR)
MODE - INTERCOM/PIT
RADZ 2400W - 473

448 [11102]
[1111]
449 MDR 10 P52/COADS CAT A/T [186:18]
[180,244,341] HGA P - 58, Y 52

UP/DLTK:	LN S.Y. (LINS +5)
	CSM S.Y. (L10)
	RESET SURFACE FLAG
UPDATE:	CONSUMABLES STATUS
	CSM S.V. (L10)
	LN S.V. (LINS +5)
	SECRET PADS AND CSM WEIGHT (COPY AT 187:15)
	FLIGHT PLAN

14

PS52 (OPTION 3)
LIFT-OFF ORIENT
REPORT: GYRO TORQUEING DATA FS

MISSION	EDITION	DATE	PAGE
AT&T 10 17	FINAL (12/26)	10/23/72	3-277

LM FLIGHT PLAN

CDR

NOTES

1523 CST
(22112)

CABIN PREP FOR ASCENT (CONT)

:35

:40

S T D N

:45

:50 :55

-1:15

FINAL LIFT-OFF PREP

CONFIGURE CB'S

AGS STATUS - OPERATE

CONFIGURE RR

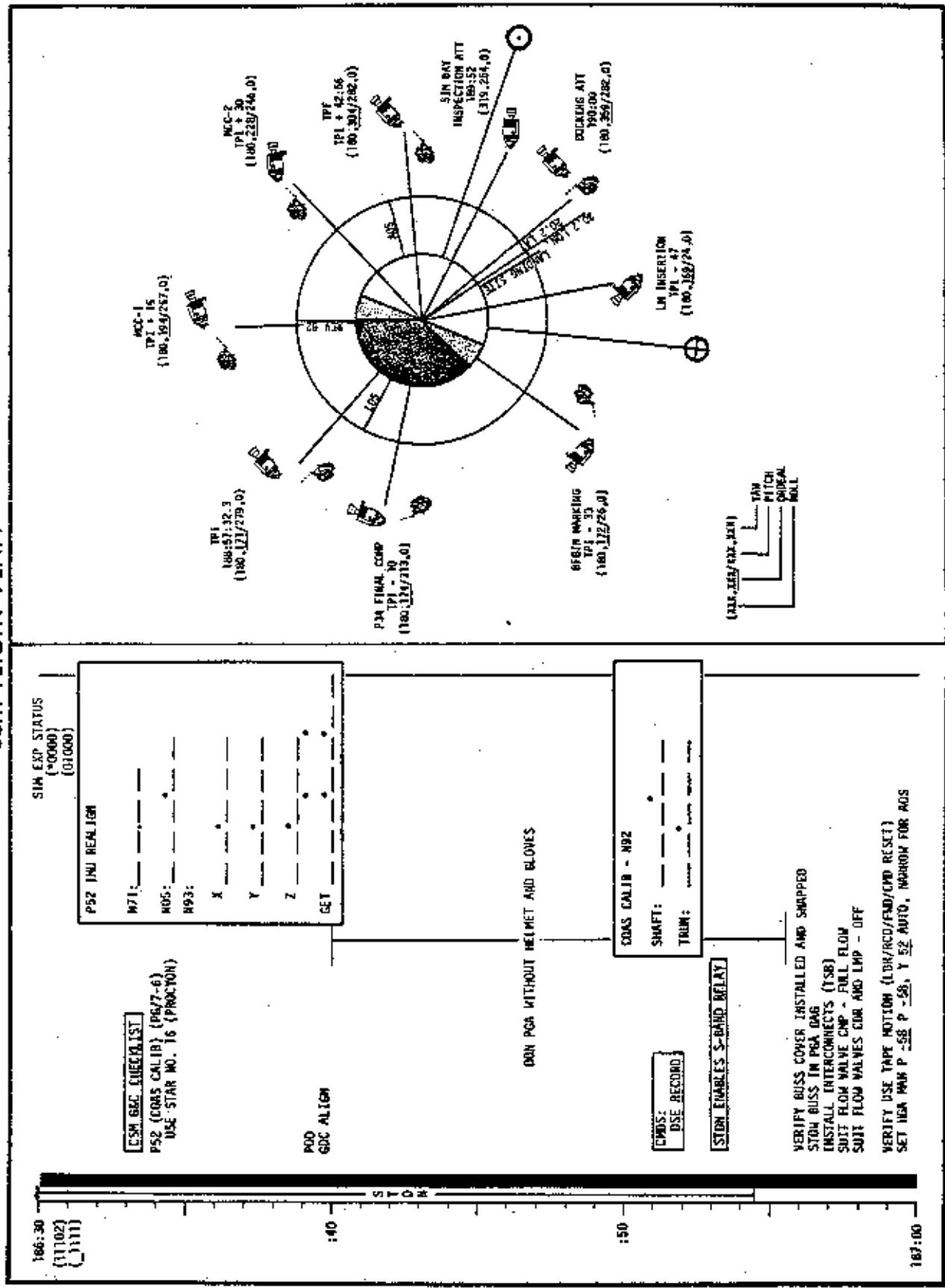
MISSION
APOLLO 17

ENABLE STATION S-BAND
RELAY

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	186:30 - 187:00	9/50	3-278

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

MCC-H	1553 CST 187:00 (22112)	CDR	LMP	NOTES
	:05	V63 RR SELF TEST (IF REQ)		AGS GYRO CALIBRATION
	:10			-1:00
	:15	(12102) S T D N	RATE GYRO TEST SET DAP RCS CHECKOUT	LOAD AGS ASCENT TARGETTING PGNS/AGS CLOCK SYNC CSM REV 51
	:20			P57 LUNAR SURFACE ALIGN OPT 4 LANDING SITE A/T 3 (LIFT-OFF ORIENT)
	:25			-0:45
	187:30		LOAD DAP, LM WEIGHT	BATS 3&6-ON, 1&3-OFF/RESET
MISSION	EDITION	DATE	TIME	DAY/REV PAGE
APOLLO 17	FINAL (12/6)	10/23/72	187:00 - 187:30	9/50-51 3-280
			FLIGHT PLANNING BRANCH	

UPLINK TO LM
ZERO POS/NEG CELLS
CSM S. V. (L/O)
(IF REQ)
RLS (IF REQ)

CSM FLIGHT PLAN

187:00
 {11102}
 {11111}

SIN EXP STATUS
 {00000}
 {01000}

DIRECT ASCENT RNDZ PAD			UPDATE (IF REQ)		
GETI	HRS	+ 0 0	+ 0 0	+ 0 0	+ 0 0
LIFT-OFF	MIN	+ 0 0	+ 0 0	+ 0 0	+ 0 0
	SEC	+ 0		+ 0	
GETI	HRS	+ 0 0	+ 0 0	+ 0 0	+ 0 0
TPI	MIN	+ 0 0	+ 0 0	+ 0 0	+ 0 0
	SEC	+ 0		+ 0	

CSM WT	+ 0 0	+ 0 0	+ 0 0	+ 0 0	+ 0 0
LW WT	+ 0 5	+ 0 5	+ 0 5	+ 0 5	+ 0 5

COELIPTIC RNDZ PAD			UPDATE (IF REQ)		
GETI	HRS	+ 0 0	+ 0 0	+ 0 0	+ 0 0
LIFT-OFF	MIN	+ 0 0	+ 0 0	+ 0 0	+ 0 0
	SEC	+ 0		+ 0	
GETI	HRS	+ 0 0	+ 0 0	+ 0 0	+ 0 0
C51	MIN	+ 0 0	+ 0 0	+ 0 0	+ 0 0
	SEC	+ 0		+ 0	
GETI	HRS	+ 0 0	+ 0 0	+ 0 0	+ 0 0
TPI	MIN	+ 0 0	+ 0 0	+ 0 0	+ 0 0
	SEC	+ 0		+ 0	

EAT PERIOD

REV 51
 REV 51

:10

:20

:10

LM FLIGHT PLAN

MCC-H	1623 CST [187:30 (12102)	CDR	LMP	NOTES
UPDATE TO LM AGS K-FACTOR AGS 047 & 053 LGC GYRO COMP (JF REQ) PIPA BIAS (IF REQ)	:35	P12 POWERED ASCENT	COPY & LOAD AGS 047, 053 SET CAMERA: LM3/DAC	-0:30
		PRELAUNCH SWITCH CHECKS	AGS LUNAR ALIGN	
		DON HELMETS & GLOVES		
	:40	S T D N	V47 SET AGS BIAS LIFT-OFF COMM, RECORDER - ON	
	:45	T V	BATS 2 & 4 - OFF/RESET DES BATS - DEADFACE	-0:15
	:50	T V		
	:55	T V	APS PRESSURIZATION	
	188:00	T V		
			GO/NO-GO FOR LIFT-OFF	

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	187:30 - 188:00	9/51	3-282

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIN EXP STATUS
{*0000}
{0000}

EAT PERIOD

187:30

(11102)
(111)

ACQ STBN HGR P -SR, Y +52 AUTO. MIRROR

CROSS:
DSE DUMP

LOAD CSM AND LH WEIGHTS

Y49 MHVA TO P20 ATT (187:46)
(180,026,000) CHNL D

CONFIGURE CAMERAS: (DOCKING)
CM2/DAC/1B/CEK-BRKT,MIR (18,1/250,-) 6 fps (40% NRG)

MAG (BB) MAG X
UTILITY PDR - ON
CH/FL/80/CEK (18,) 1/250,FOCUS 10 FR

MHG (HM) FR 1
CHARTY-BRKT - FR 1
(FAA,PEAK,-,150PNH)

PRESURIZE CABIN TO 5.5 PSIA

VHF AN T/R - OFF (PNL 9)

VHF AN B - DUPLEX

VHF AN A - OFF (CVR) (VERIFY)

VHF RANGING - ON (UP)

VHF ANT - RIGHT (VERIFY)

EXT LIGHTS RUN/ETH - ON (UP)

EXT LIGHTS RNDZ - RM02

RNDZ XPHOR - PHR

* * * * *
* IF VHF VOICE REQ:
* VHF FM T/R,T/R (PNL 9)
* * * * *

* * * * *
* FINAL CDR
* [RE]-
* PIS
* * * * *

* * * * *
* FINAL DPM
* * * * *

UPDATE:
GO/NO-GO FOR LM LIFT-OFF

GNC ALIGN

EVENT	CONTINGENCY MARKING SCHEDULES		VHF FAILSAFE	SAT FAILSAFE	SAT GDS	VHF SAC	VHF SAC	VHF SAC	VHF SAC	VHF SAC	VHF SAC	
	EXT FAULTY CROSS (Y)	EXT FAULTY CROSS (N)										
Y49	-50	-50										
INSERTION	-40	-40										
UPR INK	-34	-34										
	-30	-30										
	-20	-20										
	-10	-10										
	0	0										
	+10	+10										
	+20	+20										
	+30	+30										
	+40	+40										
	+50	+50										
	+60	+60										
	+70	+70										
	+80	+80										
	+90	+90										
	+100	+100										
	+110	+110										
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}} SIT MARKS ARE TAKEN BY MANUFACTURER SPACELINK
TO USE SIT MARKS, MUST BE DOWN PHASE TO EACH MANUFACTURER PERIOD
W/L ETC, TSE, SOURCE, etc., AS APPROPRIATE
(IF MAX RATE OF RETURN, MANUFACTURER MUST POSITION BEFORE PROCEEDING
ON FSD VER HIC, 13404, 31244)

CSM FLIGHT PLAN

1866:03.74.6

4

卷之三

100:11:32,3 {INS +3) TWEAK
100:15:32,3 {INS +5) LN B/0
100:22:32,3 {INS +12) CSM B/

EN INSERCIÓN

-47
-473,3

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ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ

LMSA
UPD TAK;

-38

PML (TR1H) (180,172/26,0)

-34-

P34 INPUT			
LIN	GET1-TPI	EL	TRANSFER
37			
55	INTEG. OPT +000000	EL ELEVATION +000000	TRANSFER +130.00

```

BEFORE STEADY STATE
PRE-PT: N49 > [+00200, +004120] REJECT/REPEAT
POST-PT: N49 > [+000100, +000150] REJECT/REPEAT
AFTER STEADY STATE
READYTIME: N49 > [+00030, +00020] REJECT/REPEAT

```

MISSION	EDITION	DATE	PAGE
APRIL 17	FINAL (12/6)	10/23/72	3-285

LM FLIGHT PLAN

CDR

1723 CST

NOTES

188:30
(12012)

LMP

MCC-H

:35

:40

:45

:50

:55

189:00

S

T

N

CSM FLIGHT PLAN

SIN EXP STATUS
 (*0000)
 (31000)

168:30
 [11102]
 [1111]
 83.29
 -328.4

P34 RECYCLE

	INITIAT	INIT ALT	ELEVATION	TRANSFER
55	400000		*	+130.00
58	PERILUME ALT	TPI AV	*	TPI AV
81	TPI AV-LV	*	*	*
84	TPI AV-LV	*	*	*



COMPARISON LIMITS: VGH=3, WGH=7, VGL=4
 (LM VGH + 1.0, LM WGH - 2.0);
 PRIORITIES: LGC, AGS, CMC
 VHF/FAR COMPARISON LIMIT:
 $\Delta R = 100' + 0.5 (\Delta H > 1.0) \text{ NM}$

P34 FINAL COMP

PAD (27°) (160,152/279,0)

CARD5
 DSE RECORD

COMPARE SOLUTIONS: SCS BURN CUT CARD

VHF AN TFR-TFR (PHL 9)

VERIFY USE TAPE MOTION (168/PCD/CDN/CDN RESET)
 SET HEADMAN P-35, V+37 AUTO, NARROW FOR MOS

STD8 DISABLES S-BAND RELAY

168:57:32.3
 LN +15.1,-0.5,+14.1
 CSN -76.1,+0.5,-12.1
 160,171/279,0

TPI
 P76
 P35 (TRIM) (160,176/277,0)

46.66
 -167.7

-10

-9

-8

-7

-6

-5

-4

-3

-2

-1

0

28.37
 -129.41
 169.70

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-207

LM FLIGHT PLAN

1753 CST

MCCB

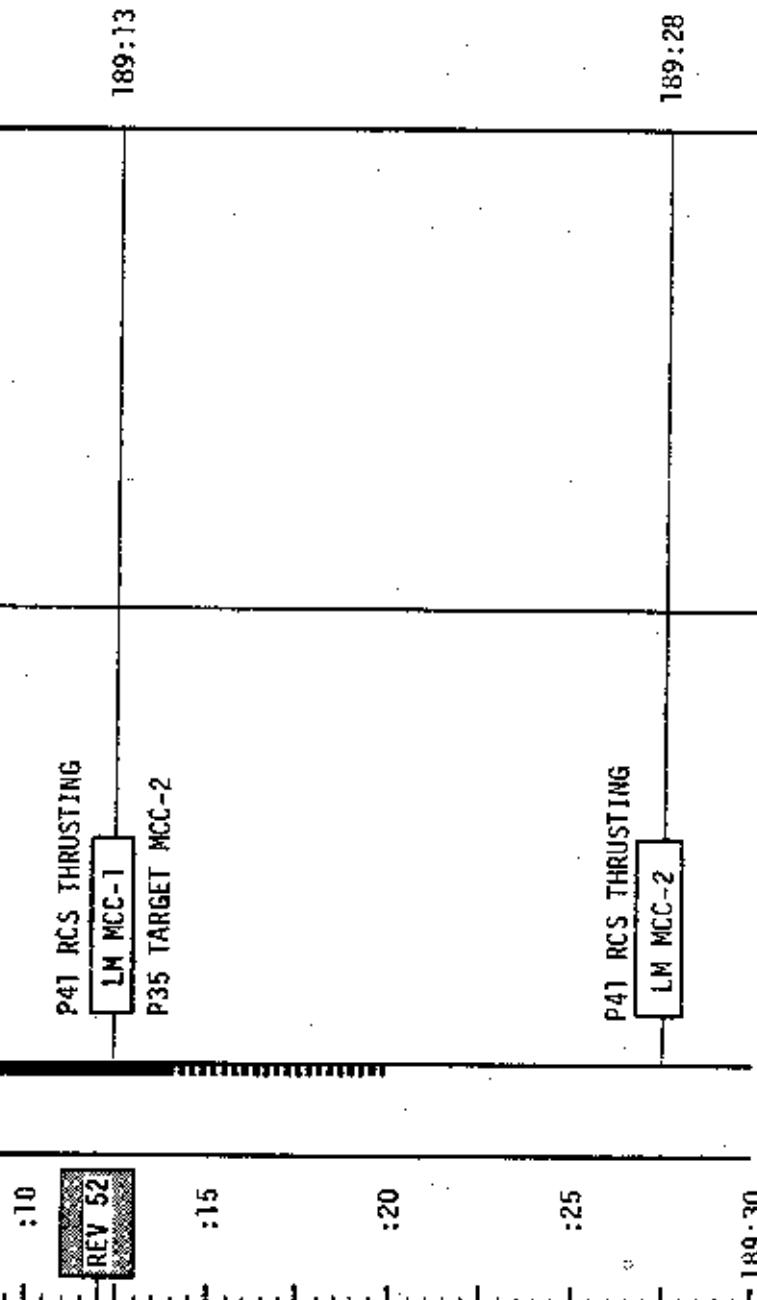
CDR

RENDEZVOUS RADAR TRACKING

189:00
(12012)

NOTES

LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	189:00 - 189:30	9/51-52	3-288

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

۳۴

1823 CST

E 189:30
(12012)

11002

۵۳

CONFIGURE COMM FOR AOS
TRI BURN REPORT

P47 THRUST MONITOR
LM BRAKING GATES

三

5

50

55

8

8

28

NOTE

SET D&P

847 THIR

- 8 -

INDEX TO PICTURES

三

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	189:30 - 190:00	9/52	3-290

CSM FLIGHT PLAN

189:30 [11102] PERFORM PRE-DOCK CHECKLIST
 {11111} IF CSM ACTIVE:
 PAY AT R-1 25 NM
 SEC PREPLN FUEL PRESS (4) - OPEN
 V33E
 N33E
 KEY REL

189:35 [3.56] EDS MODE - STBY

EMS FUNC - OFF

EXT LIGHT RND2 - OFF

LH STATION KEEP

DAC/TV - OFF

TPF

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SIM EXP STATUS
 (*8000)
 (31100)

189:40:28.1

LN 31.5 (TOTAL)

CSM 32.6 (TOTAL)

180,389,782.0

PRE-DOCK CHECKLIST	
NHM ATT (3)-RATE CND (VERIFY)	CB DCK PROBE (2) - CLOSE
LIMIT CYCLE - OFF (VERIFY)	PHONE RETRACT (2) - OFF (VERIFY)
ATT DB - MIN	PROBE EXT/REL - RETRACT
ROTATE - LOW (VERIFY)	PROBE EXT/REL TB (2) - GRAN (VERIFY)
TRANS COMB PUR - ON (UP)	(IF TB NOT GRAN, DO TO PG S/2-13.E)
ROT CENTER PUR DIRECT (BOTH) - NMW/NWB	CB SECS LOGIC (2) - CLOSE (VERIFY)
SC CONT - CMC (VERIFY)	CB SECS ARN (2) - CLOSE
AUTO RCS SEL (16) - NMW/NWB	EXT LIGHTS RUMENA - OR (UP) (VERIFY)
	DOAS PUR - ON (UP) (VERIFY)

BRACING GATES			
R, NM	R, FPS	ARTICLE ANG DEG	R, FT
1.50	45	.08	9000
1.00	30	.13	6000
.50	20	.26	3000
.25	10	.54	1500
.08	5	1.50	500
		2.70	300
		4.00	200
		8.50	100

V49 NMW TO SIN BAY INSPECTION ATTITUDE (189:52)
 (319,254,000) OWN 10
 0

189 NMW TO DOCKING ATT (190:00)
 (180,282,0) HGA P -35, Y ±37

CUE STON FOR LOGIC ARN
 SECS LOGIC (BOTH) - ON (UP)
 UPDATE:
 GR330 DO FOR PERI ARN
 SECS PROG ARN (2) - ON (UP)

190:00

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-29

MCC-N

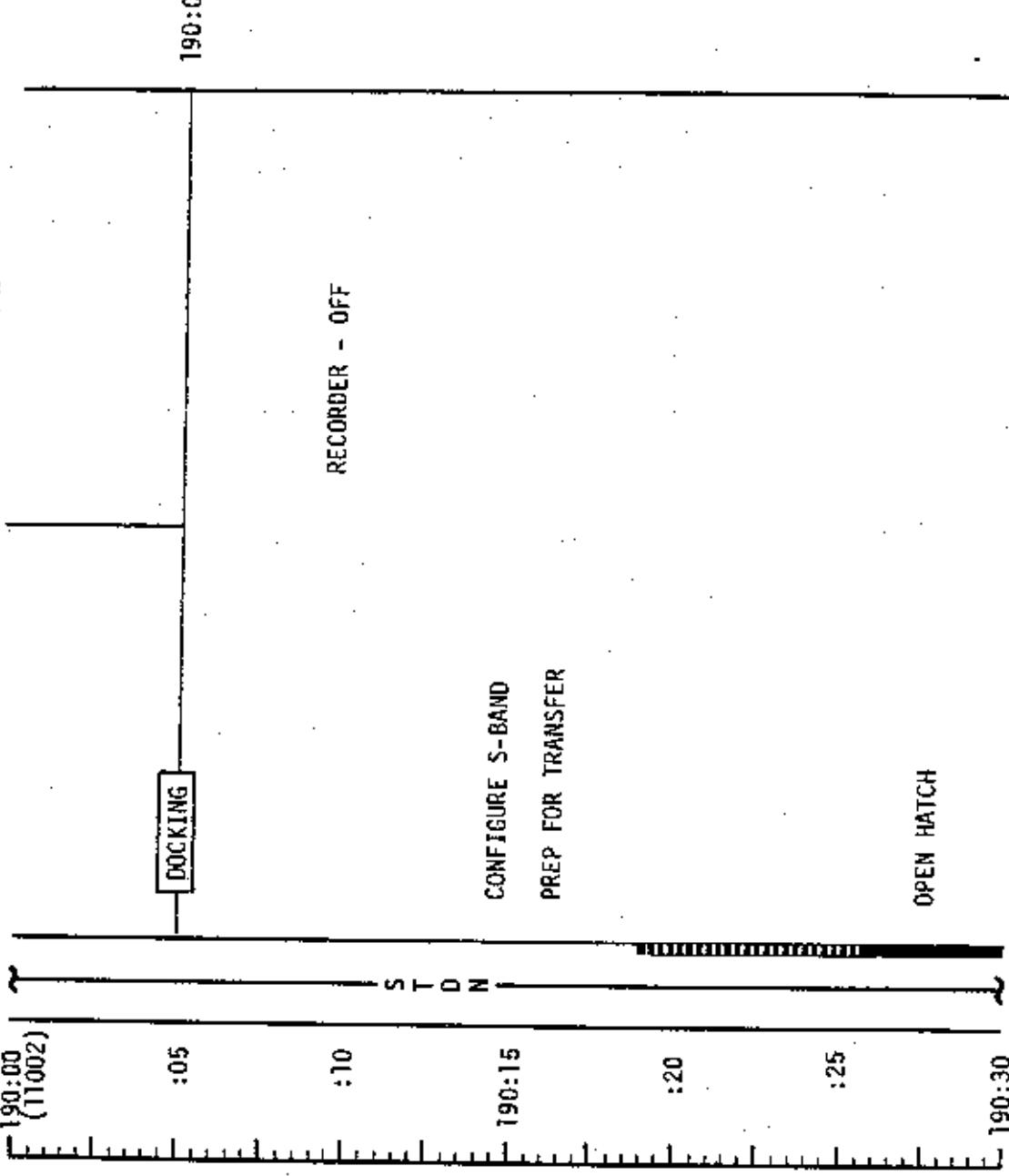
LM FLIGHT PLAN

1853 CST
(1100Z)

NOTES

LMP

CDR



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	190:00 - 190:30	9/52	3-292

FLIGHT PLANNING BRANCH

LM FLIGHT PLAN

MCC-H

NOTES

LMP

CDR

1923 CST

190:30
(11002)

RECEIVE
DROGUE
PROBE
VACUUM CLEANER
TRANSFER LIST

:35

CABIN CLEANUP

:40

S T D N

190:45

TRANSFER LEVA BAGS
RECEIVE DECONTAMINATION BAGS

:50

:55

EQUIPMENT & SAMPLE TRANSFER

191:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	190:30 - 191:00	9/52	3-294

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

190:30 (1111) TRANSFER TO CDR AT HIS REQUEST:
PROBE
DISCUT
VACUUM CLEANER (ASSEMBLED)
LN TO CM TRANSFER LIST

SIM EXP STATUS
[0000]
[0101]

:40

RECEIVE LEVA BAGS
CMOS: ESE RECORD

TRANSFER TO CDR:
DECONTAMINATION BAGS

:50

VERIFY USE TAPE MOTION (OVER/RED/FWD/CMD RESET)
SET USE MM P -12, Y 349 AUTO, NARROW FOR ADS

RECEIVE ITEMS FROM LN AND SWON
(LN TO CM TRANSFER LIST)

191:00

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-295

LM FLIGHT PLAN

CDR

NOTES

LMP

1953 CST
E (71002)

:10

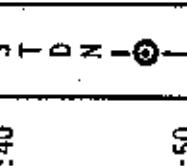


:20

191:30

TRANSFER SRC'S

:40



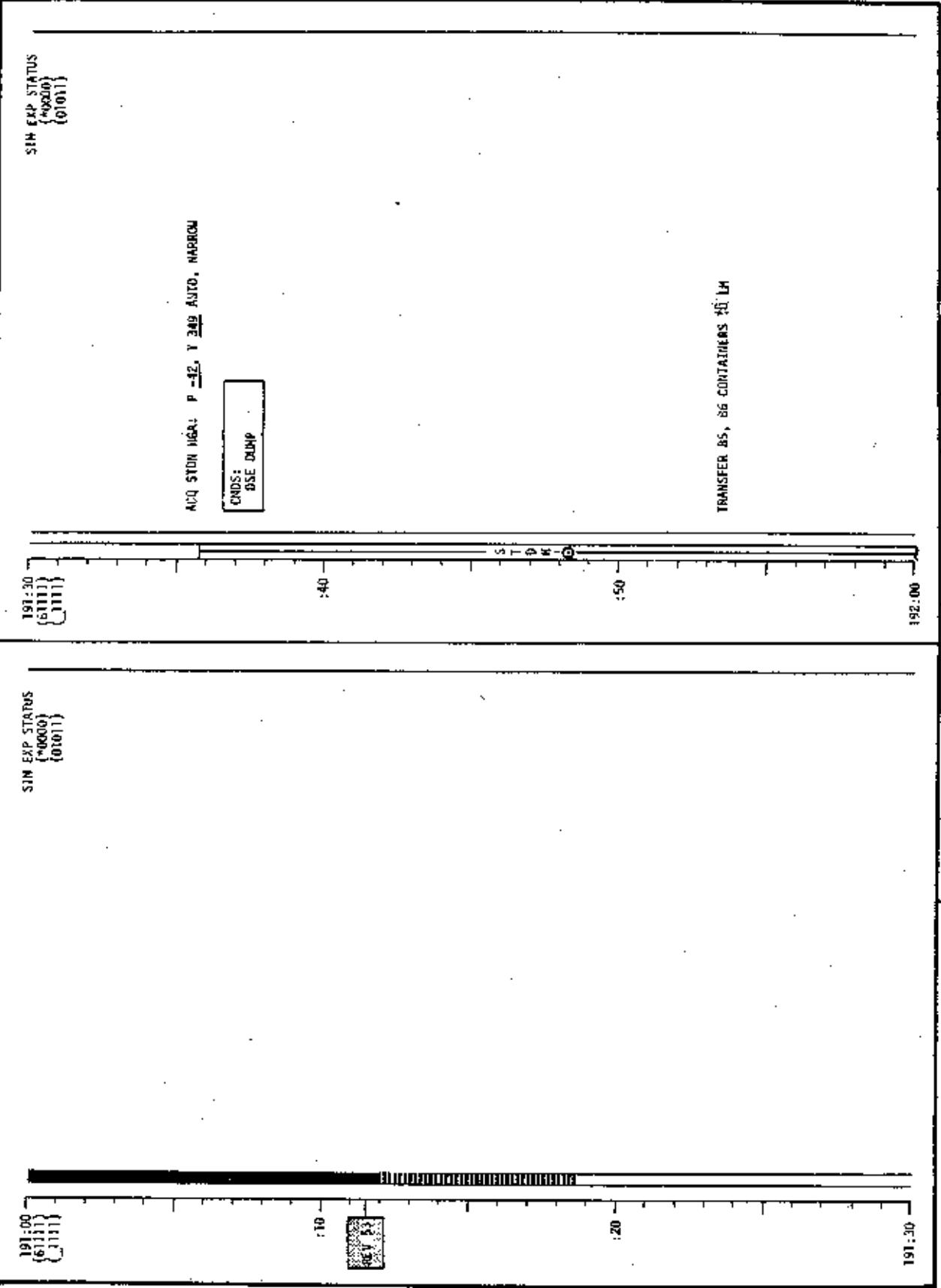
RECEIVE B5 & B6

192:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	191:00 - 192:00	9/52-53	3-295

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



LM FLIGHT PLAN

CDR

NOTES

2053 CST

192:00
(11002)

UPLINK TO LM
LM S.V. (TTG-10)
P30 TARGET LOAD
P99 LM DEORBIT

UPDATE TO LM
DAP LOAD (WEIGHTS)
DEORBIT BURN PAD

:10
(12021)

:20

192:30

:40

GO/NO-GO FOR LM
CLOSEOUT

:50

TRANSFER JETTISON ITEMS

193:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	192:00 - 193:00	9/53	3-298

FLIGHT PLANNING BRANCH

2:00

2:30

CONFIGURE VHF FOR CLOSEOUT

CSM FLIGHT PLAN

```

SIN EXP STATUS      192.168.1.100
(*0000) {0101}
(*0000) {0101}

```

SIN EXP STATUS
(*D0000)
0101

SIM CHP STATUS

UPDATE:
GAP LOAD - UPDATE WEIGHTS
IN JETTISON PRO
FLIGHT SIM

萬葉集

UPPER CLASS 5-A, (CSE) SEP-10

W48 [61101]
[111] CONTINUE EQUIP & SAMPLE TRANSFER

C5M WT	+
1M WT	+

UPDATE:
50/MO-GD FOR LM CLOSEOUT

HOME USE RECORD

WEBSITE USE TAPE MENTION (WEBSITE/END/END RESET)

LM JETTISON PAD		GETI	HRS	NIN	M33
+	0 0				
+	0 0				
+	0 0				
X	X X				R { 020)N22
X	X X				R { 007 }
X	X X				V { 349 }

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/17/72	3-299

LM FLIGHT PLAN

CDR

2153 CST
193:00
(12021)

NOTES

IWT TO CSM

3:00

CLOSE HATCH, IWT TO CSM
LM CLOSEOUT

CLOSE HATCH, IWT TO CSM

:10



:20

193:30

:40

:50

194:00

S T D N I O

MCC-H

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	193:00 - 194:00	9/53-54	3-300

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

[1993:01]

SIM LDP STATUS

EXP STATUS

MURKIN ET AL.

CDR & LMP INT TO CSM
VHF AN B - OFF [CTR]

LMP - CLOSE WHICH

**STORM INTERCONNECTS - AS
SELF FLOW VALVE (3) - SUIT FULL FLOW
WATER INSTALLATION (MECAL)**

WOTC INTEGRITY GUIDE (FRESH 1)

CONFIGURE CAMERA FOR LN JETTISON PHOTOS
CN2/DAC/BYTEX - BAXT,NTR(8,1/250,1) 12 fps (50% MAG)
MAG {100} MAG, MAG 2 ON
UTILITY MAG ON

CHECK NULL BIAS

RKE-JETTISON CHEMIST

SECS PYRO ARR (2) - ARH

DAC - ON (JET1 - 25 SEC)	LM JET1/DN	193-58-30	{070, #PA/007, 344}
---------------------------------	-------------------	-----------	---------------------

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MISSION EDITION

PAGE 11

CSM FLIGHT PLAN

PME - THE PRACTITIONER

111

CSM SEPARATION

TIE:	194:03:30
BT:	12.6 SECS
AVT:	2.0 FPS
ORBIT:	63.9x62.3W

END OF LOG FOR STATION

EMS FUNC - OFF
 TMC PWR - OFF
 RHC PWR DIR - OFF
 TMC LOCKED
 RHC LOCKED

```

INHIBIT ALL JETS EXCEPT A1 & C2 OR D1 & B2, A3,C4,B3,D4
IF ANTENNA 1 - EXTEND [OFF ON SIDE CUE]
IF ANTENNA 2 - EXTEND [OFF ON SIDE CUE]
Y49 (SET LOWER SURFACE FLAG)
Y48 {1110}
P20 OFF 5 [-X PHD SIM ATT] (190:30)
N28 {0900 0000}

```

S 10 44

5 10 44

W79 HGA P -4, Y 316 DUFF PIGA'S, HELMETS AND GLOVES ZIP SHUT & INSTALL ELECTRICAL COVERS PRIOR TO STOWING (PIGA BAG) CDR & LMP INSTALL LGG PLUGS (LH TEE TOP POCKET) INSTAL NECK RING COVERS (PIGA BAG) DEMO LOCAT'A'S OVERBOARD CDR & LMP DUMP URINE OVERBOARD (VIA LTS-R1) UNTIL 19:00 CMP RESUME COLLECTION IN BAGS CSTM LOCAT'A (PIGA BAG) TRANSFER PROPS TO CMSG'S

WOFF PEG4-5

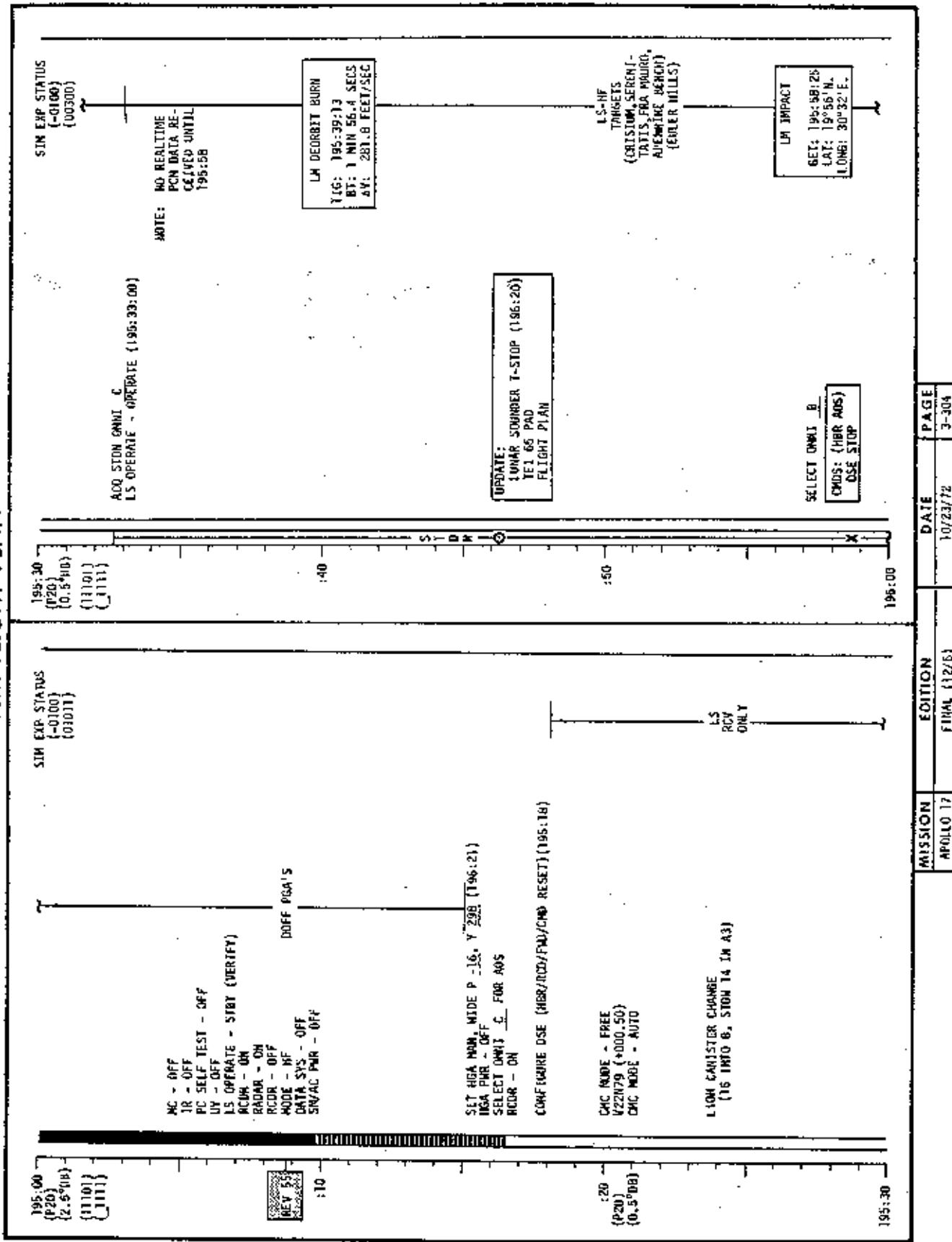
WPLINK

PRE-SEPARATION CHECKLIST	
ENS MODE - STBY	
SC CINT - QMC	
ENAG MODE [13] - RATE 2	
Y49 MAYR RIGHT 90°	
[11,007,349]	
BAC - OFF	AUTO RCS SEL [16] - MNA/MNB
	SECS PYRO ARM [2] - SAFE
	SECS LOGIC [2] - OFF
	CB GS/NL FINAL SEP [2] - OPEN
	F41 (BYPASS, MNR)
	EAS MODE - NORMAL (SEP - 30 SECS)

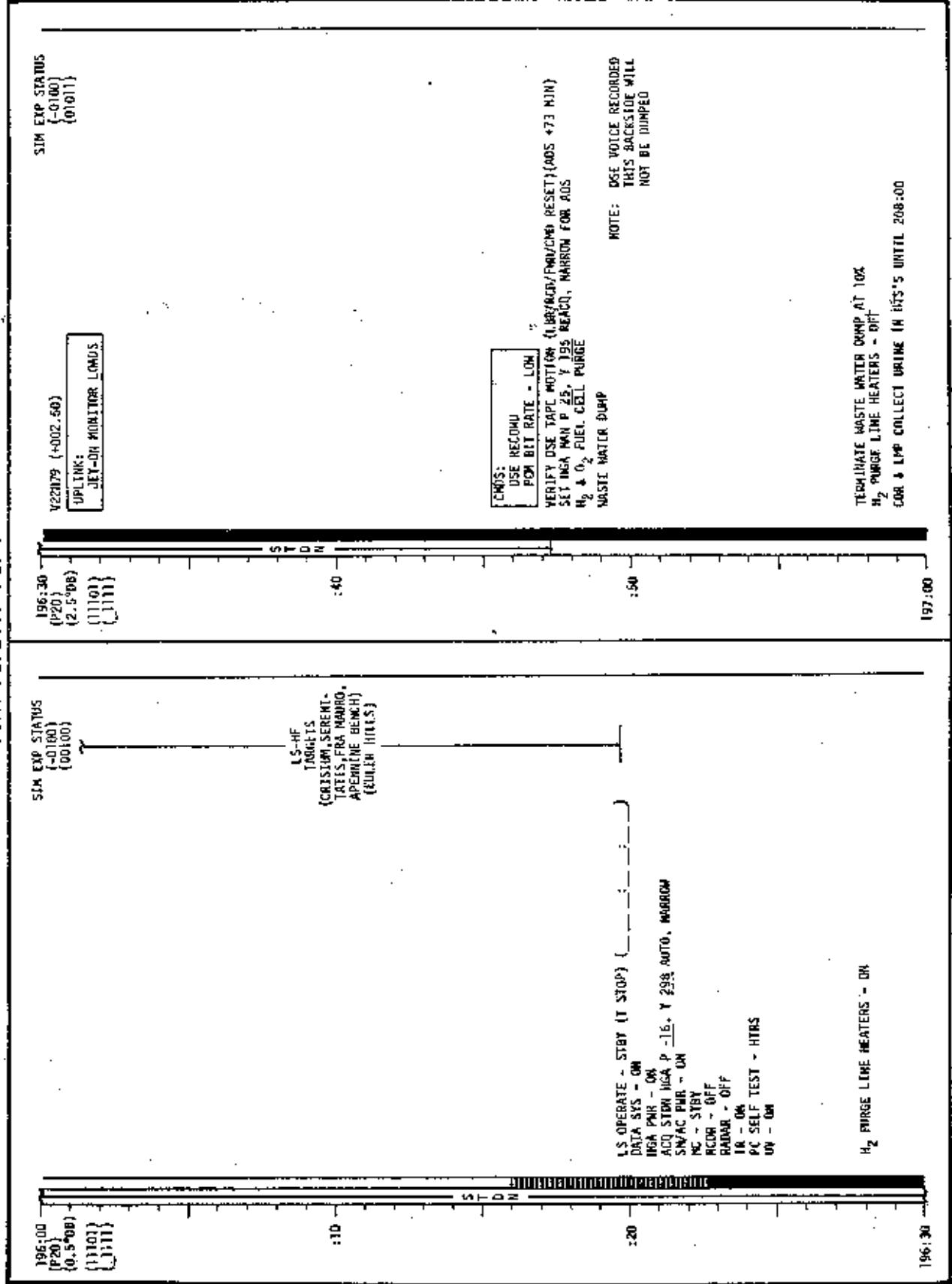
NOTE:
LN JETTISON MAY BE
DONE IN LN JETTISON
ATTITUDE UNIL LOG (194-48)

MISSION	EDITION	DATE	PAGE
APOLLO 17	FIREL (1216)	10/23/72	3-302

CSM FLIGHT PLAN



CSM FLIGHT PLAN



CSM FLIGHT PLAN

197:00
(2.5 DB)
{0100}
[0101]

SIM EXP STATUS
{0100}
{0101}

SIM EXP STATUS
[-0100]
{0101}

:10

:40

:20

:50

198:00

REV 56

EAT PERIOD

EAT PERIOD

CROSS: (ADS +10 MIN)
DSE REWIND

CROSS: (ADS +16 MIN)
DSE PLAYBACK
PCN BIT RATE - HIGH

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL {126}	10/23/72	3-306

CSM FLIGHT PLAN

198:00
IR COVER - OPEN
UV COVER - OPEN
(P20)
(2.5°OB)
{11101}
{1111}

CSM SYSTEMS CHECKLIST
PRE-SLEEP CHECKLIST

PAGE 5/1-29

SIM EXP STATUS
{-0011}
{00011}

SIM EXP STATUS
{01001}
{01011}

CARDS: (ADS & D MIH)
DSE REWIND

FILM MAGS REQUIRED FOR NEXT DAY:

EL: MN, QO, RR

SIM EXP STATUS
{-0011}
{00011}

:40

:10

CARDS: (ADS & D MIH)
DSE RECORD

SIM EXP STATUS
{-0011}
{00011}

REST PERIOD
(8.0 HOURS)

:20

:10

SIM EXP STATUS
{-0011}
{00011}

:50

:20

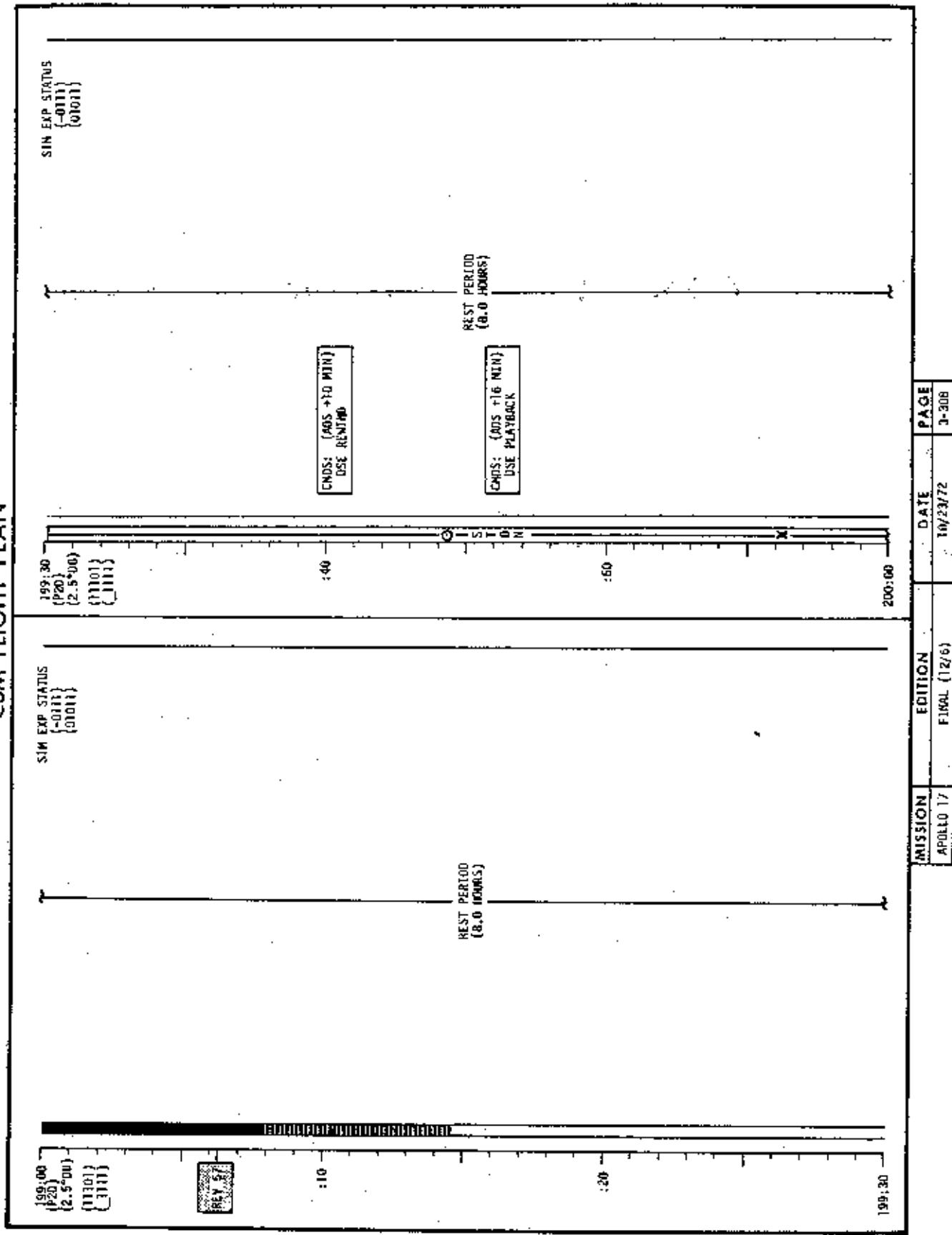
SIM EXP STATUS
{-0011}
{00011}

198:00

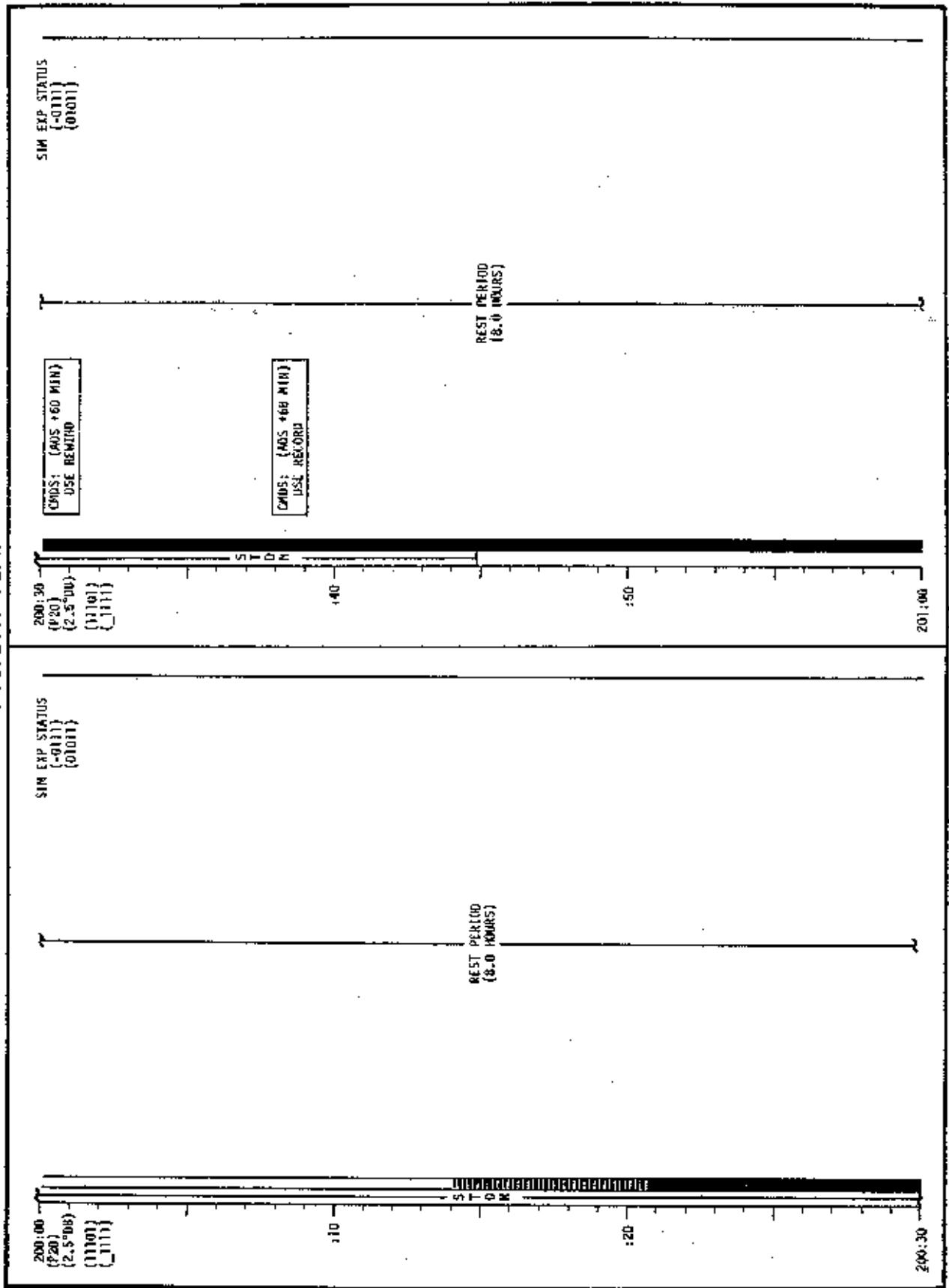
198:00

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-367

CSM FLIGHT PLAN

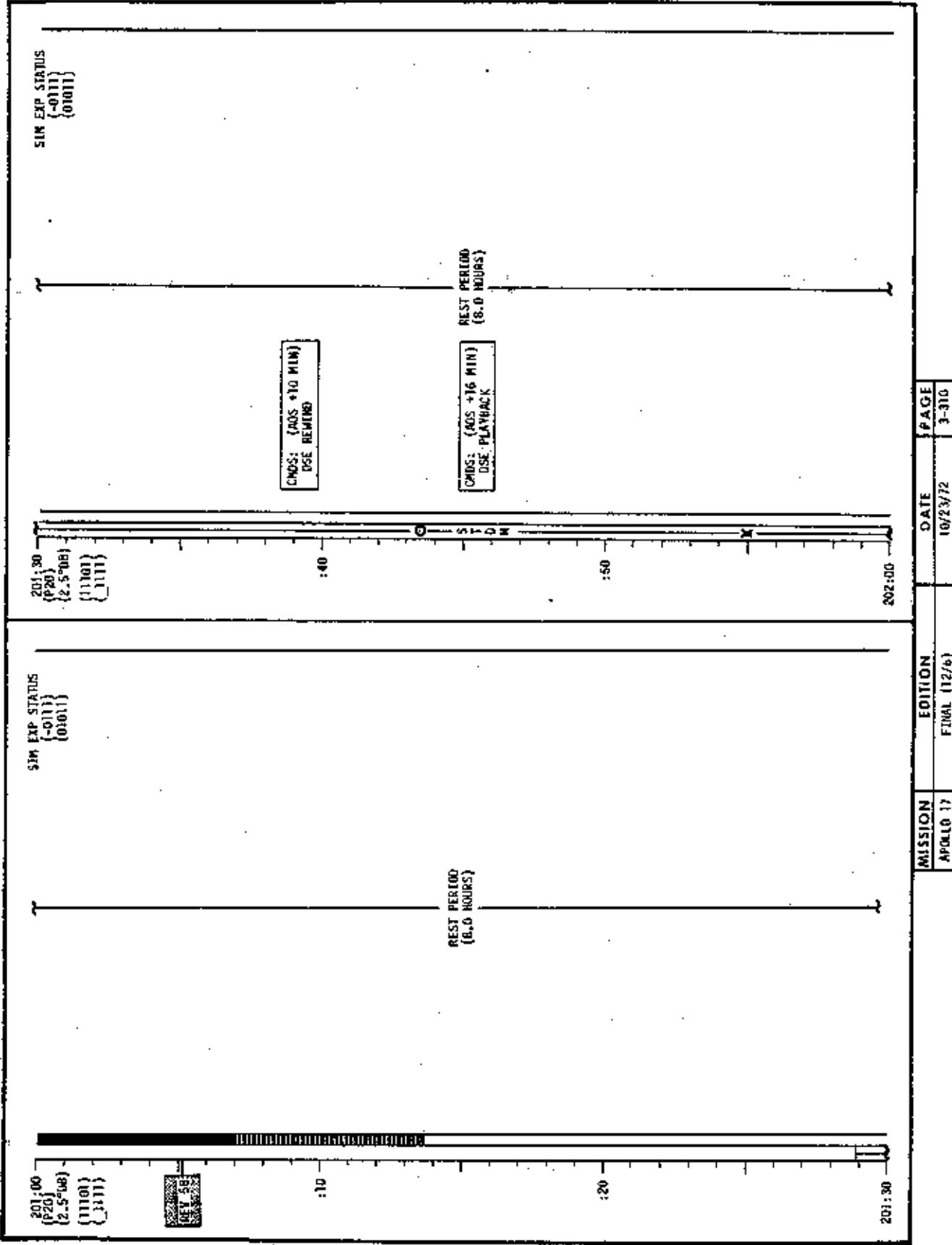


CSM FLIGHT PLAN

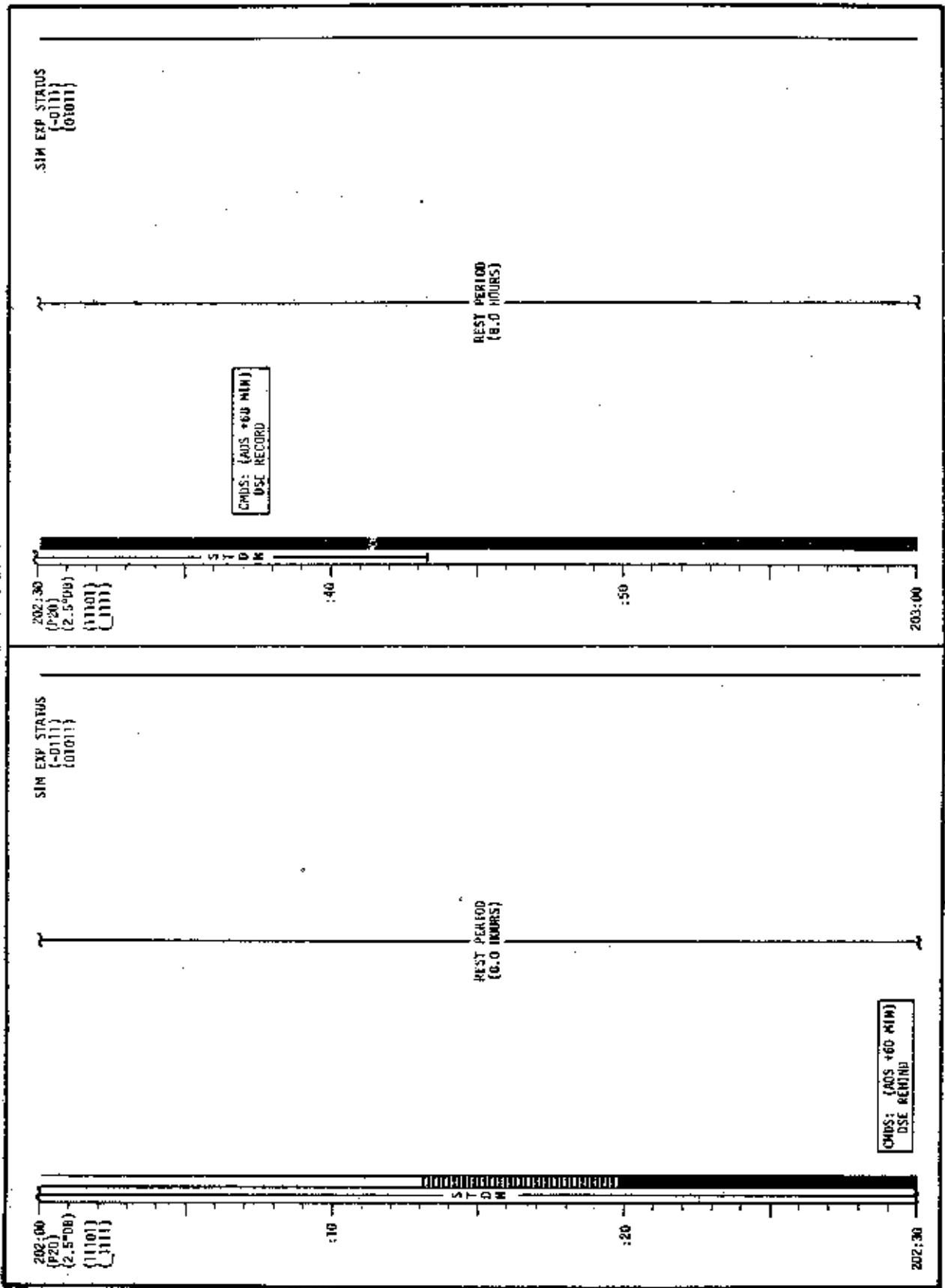


MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (11/6)	10/23/72	3-304

CSM FLIGHT PLAN

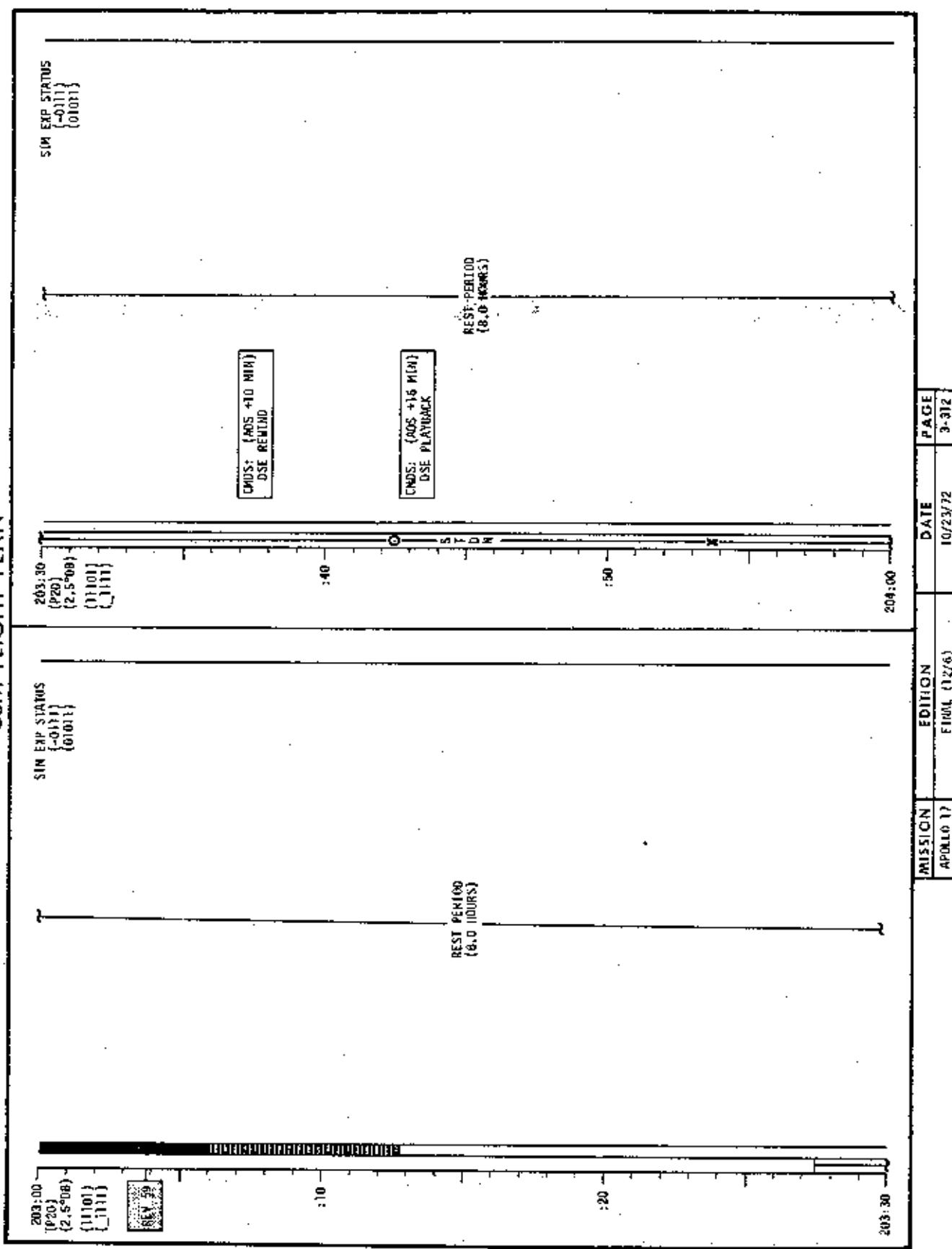


CSM FLIGHT PLAN

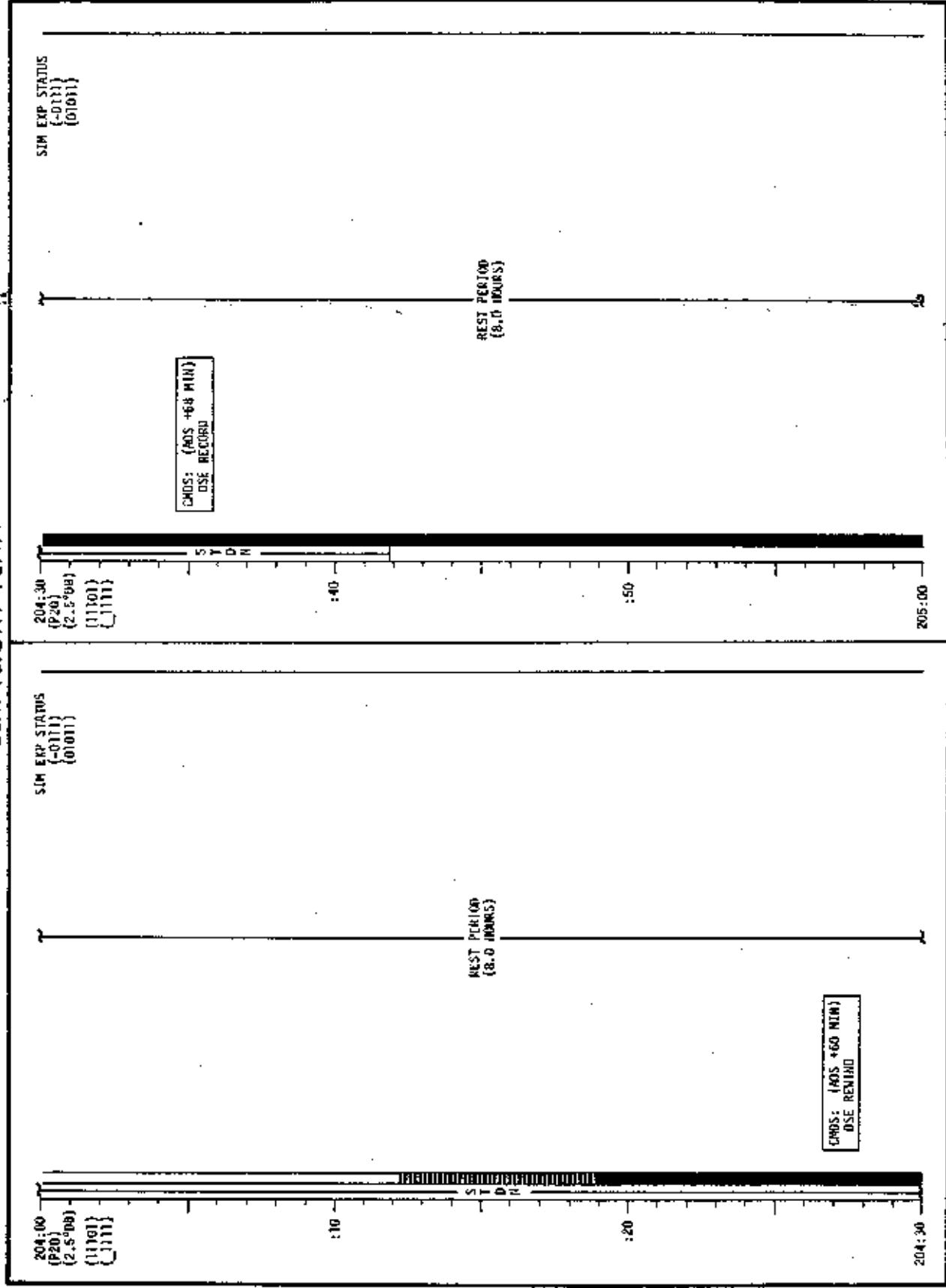


MISSION	EDITION	DATE	PAGE
Apollo 17	Final (126)	10/24/72	3-31

CSM FLIGHT PLAN

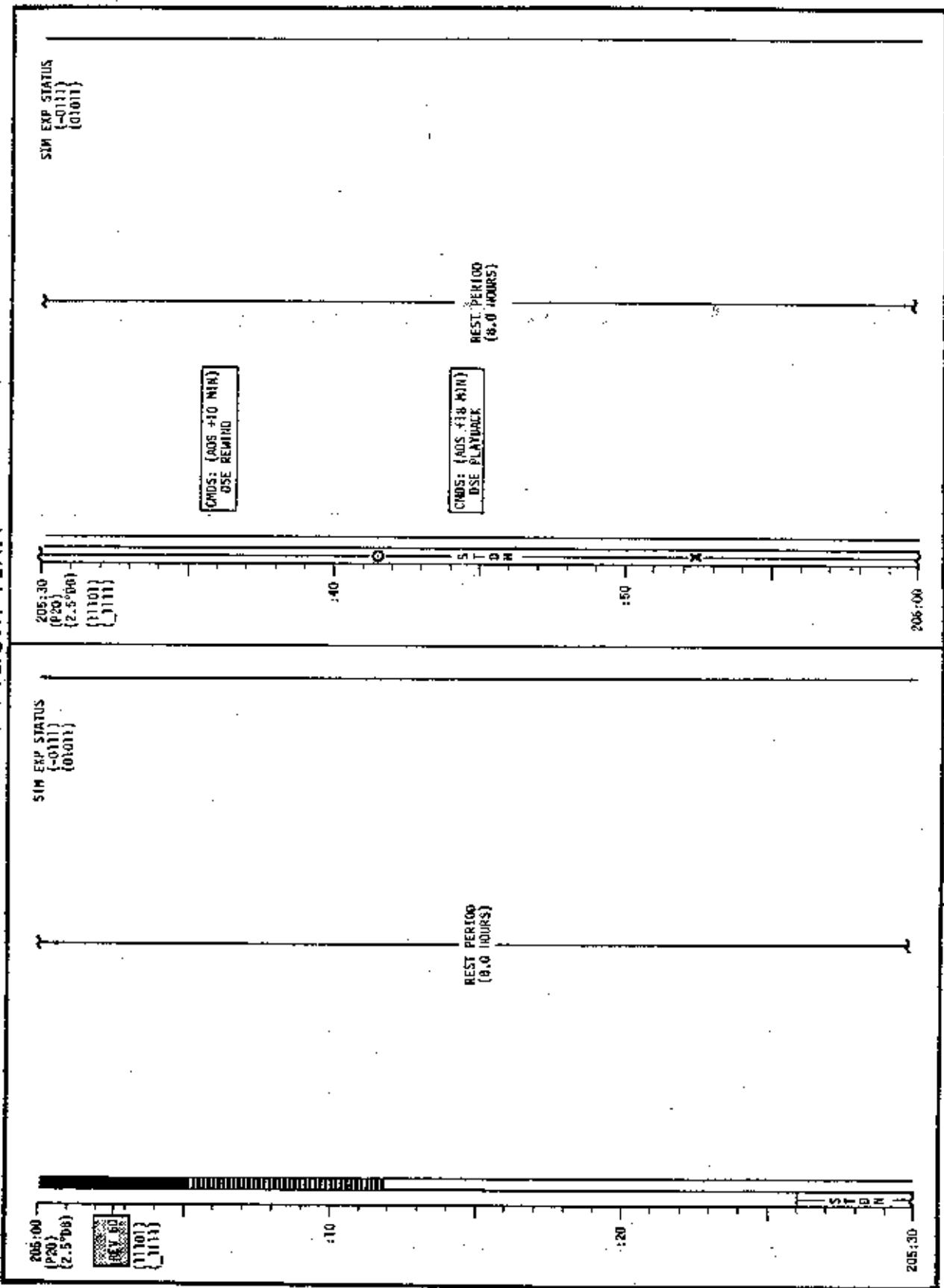


CSM FLIGHT PLAN



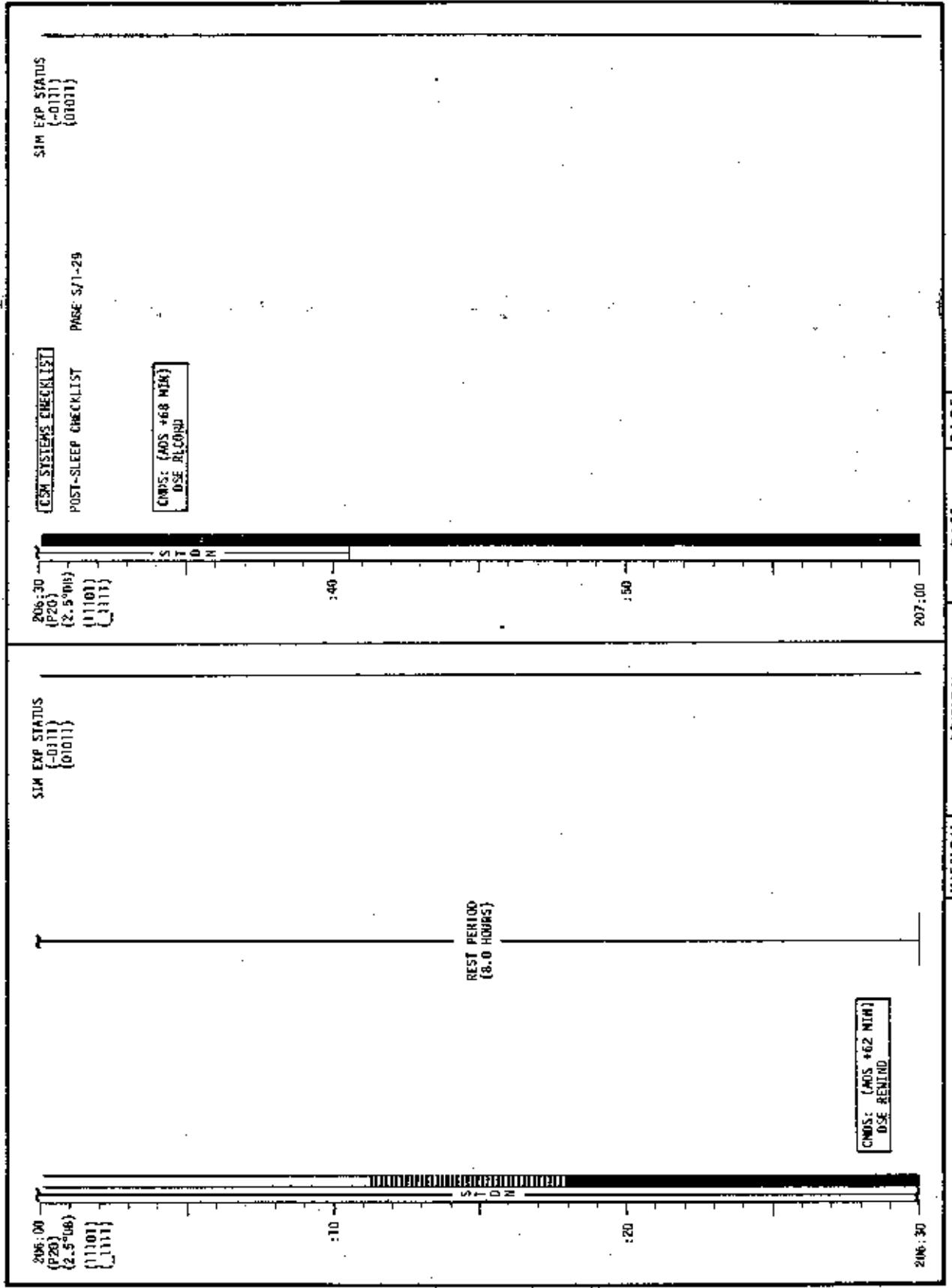
MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-313

CSM FLIGHT PLAN



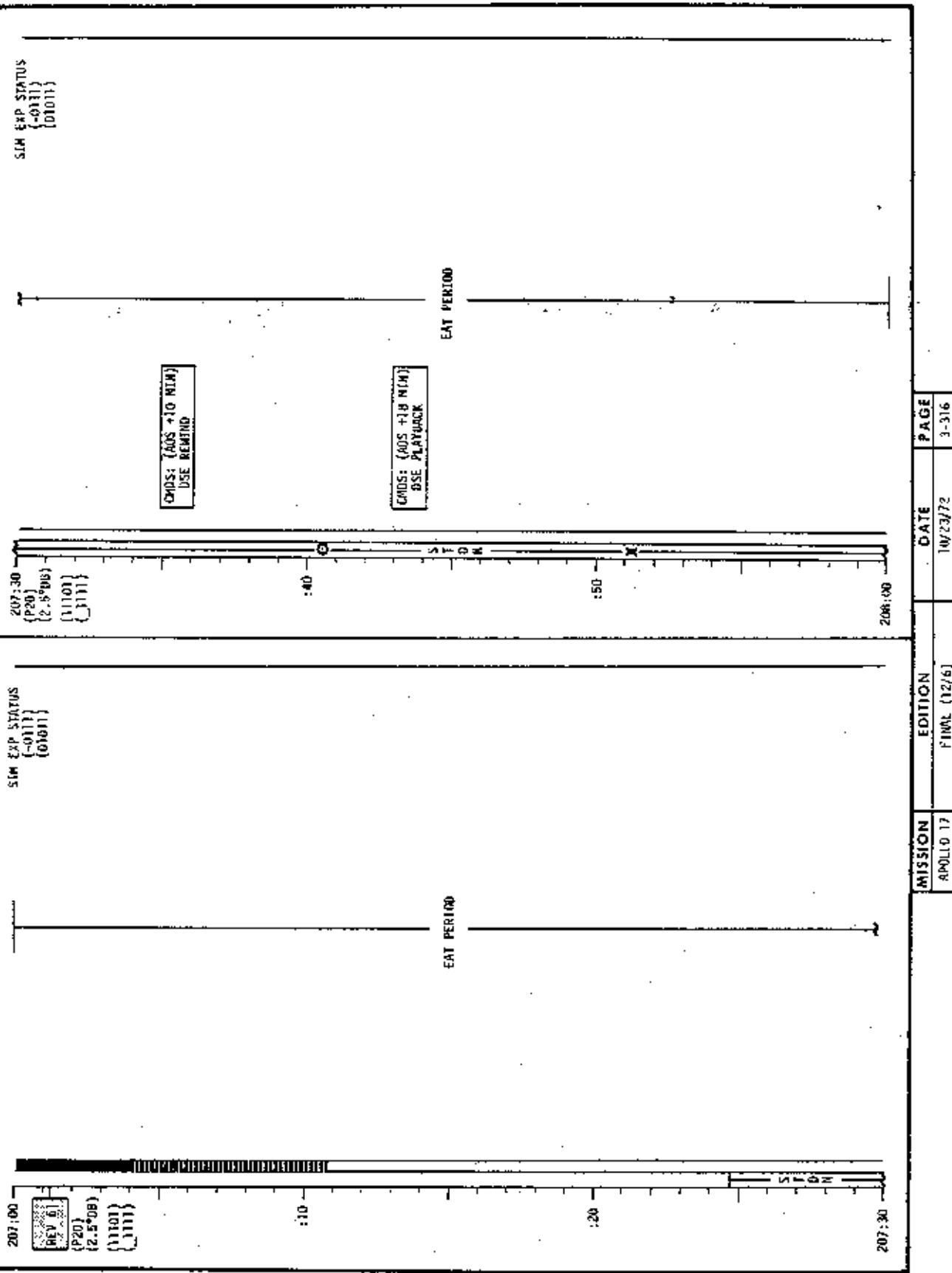
MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/24/72	3-314

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-315

CSM FLIGHT PLAN



CSM FLIGHT PLAN

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/24/72	3-31

208:40 (P20) (2.5°DB) (110) (111)

UPDATE:
FLIGHT PLAN
SOLAR CORONA PHOTO PAD
PAN CAMERA PHOTO PAD [209:15]

START NEW URING COLLECTION PERIOD (All.)
CHARGE BATTERY B
PC: MODE - STBY
PHR - ON

CSM EXP/EVA CHECKLIST
SOLAR CORONA (SUNSET) PAGE X/2-7
PHG (Q)

PC: PHR - OFF (CUE)

:10

SOLAR CORONA (SUNSET)
1-START: [SS - 5 MIN]

SIN EXP STATUS
{-0111} (01011)
(01011) {1110}

CROSS: (AOS +69 MIN)
DSE RECORD

SIN EXP STATUS
{-0100} (01011)

VERIFY USE TAPE MOTION (HEAR/CUE/FWD/CMD RESET)
SET HIGH WIDE, WIDE P -10, Y 25 FOR AOS
CMC MODE - FREE
POD
449 MINUTE TO JV SCAN ATT (208:49)
(003.272 (POD))
CMC MODE - AUTO
IR COVER - OPEN

:40 (1101) (1111)

P20 DEPT 5 (x FWD SIN ATT) (209:05)
W76 (+090.00)
(+082.25)
N79 (+180.00)
(+600.50)

CONFIDENTIAL CAMERAS: (TERMINATOR PHOTOS)
CMG/TEL/BOY/WISH (FS, 6, 1/250,*) 18 FA
HAG (RR) _____, FR # _____

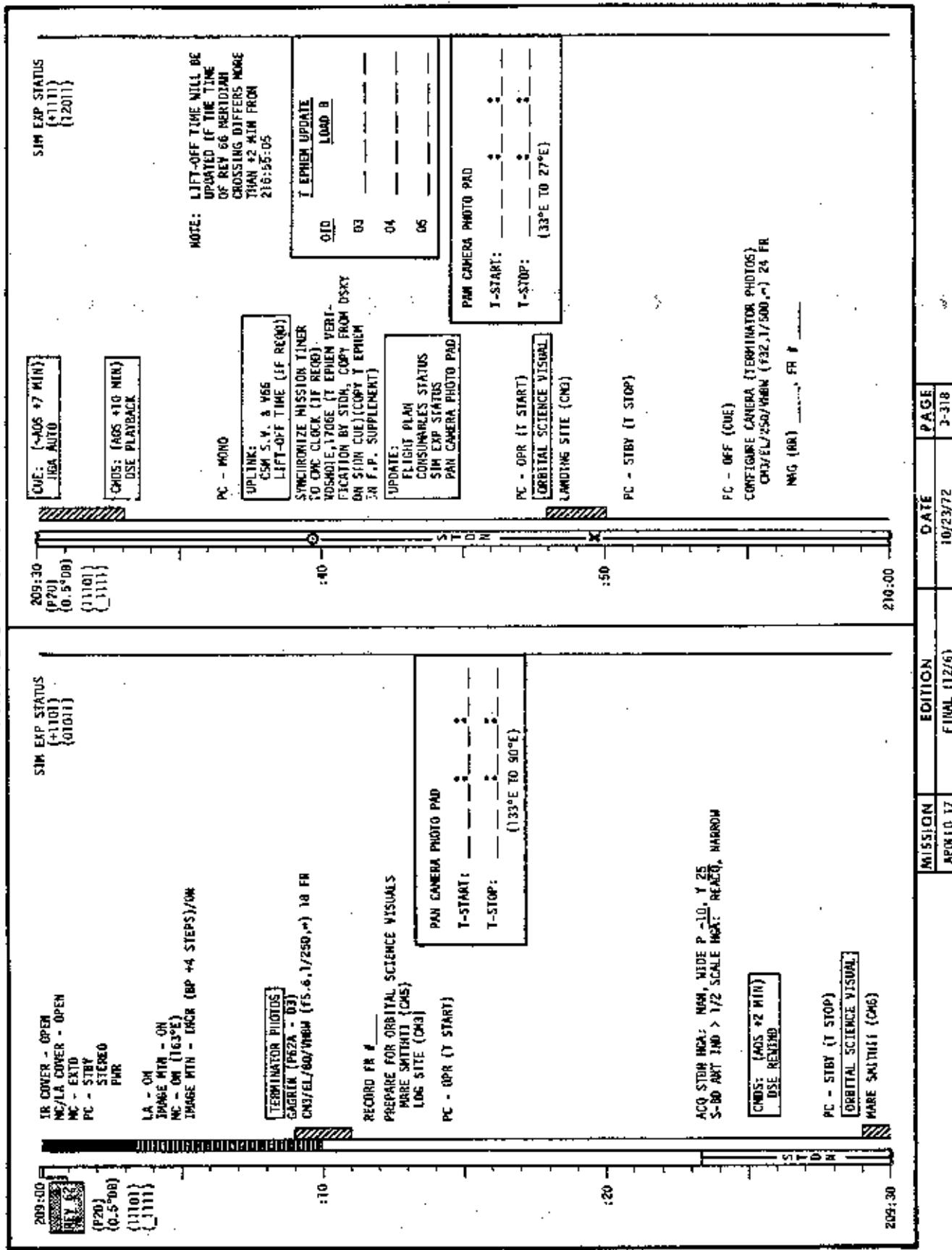
:20 IR COVER - CLOSE
UV COVER - CLOSE
SAMPLE CUP BUSS (1) - SWIM SAMPLE (1)
DUMP URINE FROM BUSS (1) AND UTS (CDS AND LNP'S)

CROSS: (AOS +62 MIN)
DSE RECORD

TERMINATE JET-ON MONITOR
P20 VEN26 (00000)

208:30

CSM FLIGHT PLAN



CSM FLIGHT PLAN

MISSION

210:00 SIM EXP STATUS [P20] (02011) [01101] [01111]

210:10 RECORD FOR # _____

210:20 TERMINATOR PHOTOS [P625 + D13] CN3/EL/250/VIBR [f32,1/500,~] 24 FR

210:30 SET MA PAN P -20, Y 30 AUTO, MIRROR (215:19)

210:40 SELECT ORNT B FOR AOS
CMG DCM BIGNED HARNESS

210:50 LS OPERATE - STBY (VERIFY)
RCLC - ON
RORR - ON
ROCR - OFF
MODE - HF

210:55 P22 INI REALIGN
NPI: _____
N93: _____
MODE: _____

211:00 CMC NODE - FREE
P52 (OPTION 3) {LIFT-OFF ORIENT}
REPORT: GYRO TORQUING ANGLES
P20: CMC NODE - AUTO
GDC ALIGN
CMPS: (AOS +66 MIN)
DSE REIND
REV 63

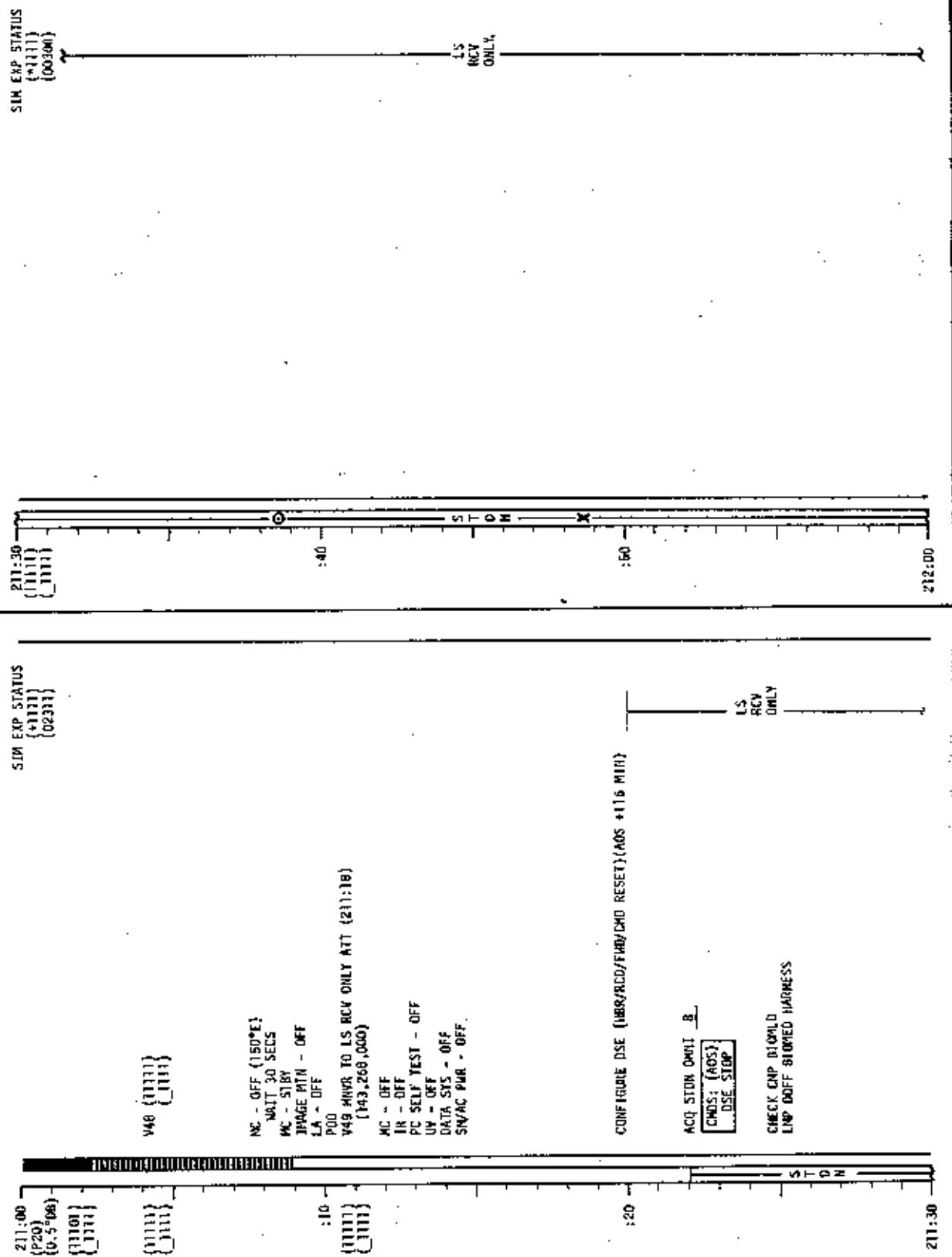
211:10 SIM EXP STATUS [P20] (+111) [02011] [01101] [01111]

211:20 NOTE: SIM WAY AND PCM DATA IS NOT RECORDED UNTIL 211:20

211:30 LSH EXP/EVA CHECKLIST PPS: X/2-10 a,b (CP) X/2-10 c,d (CDR) X/2-10 e,f (LMR)

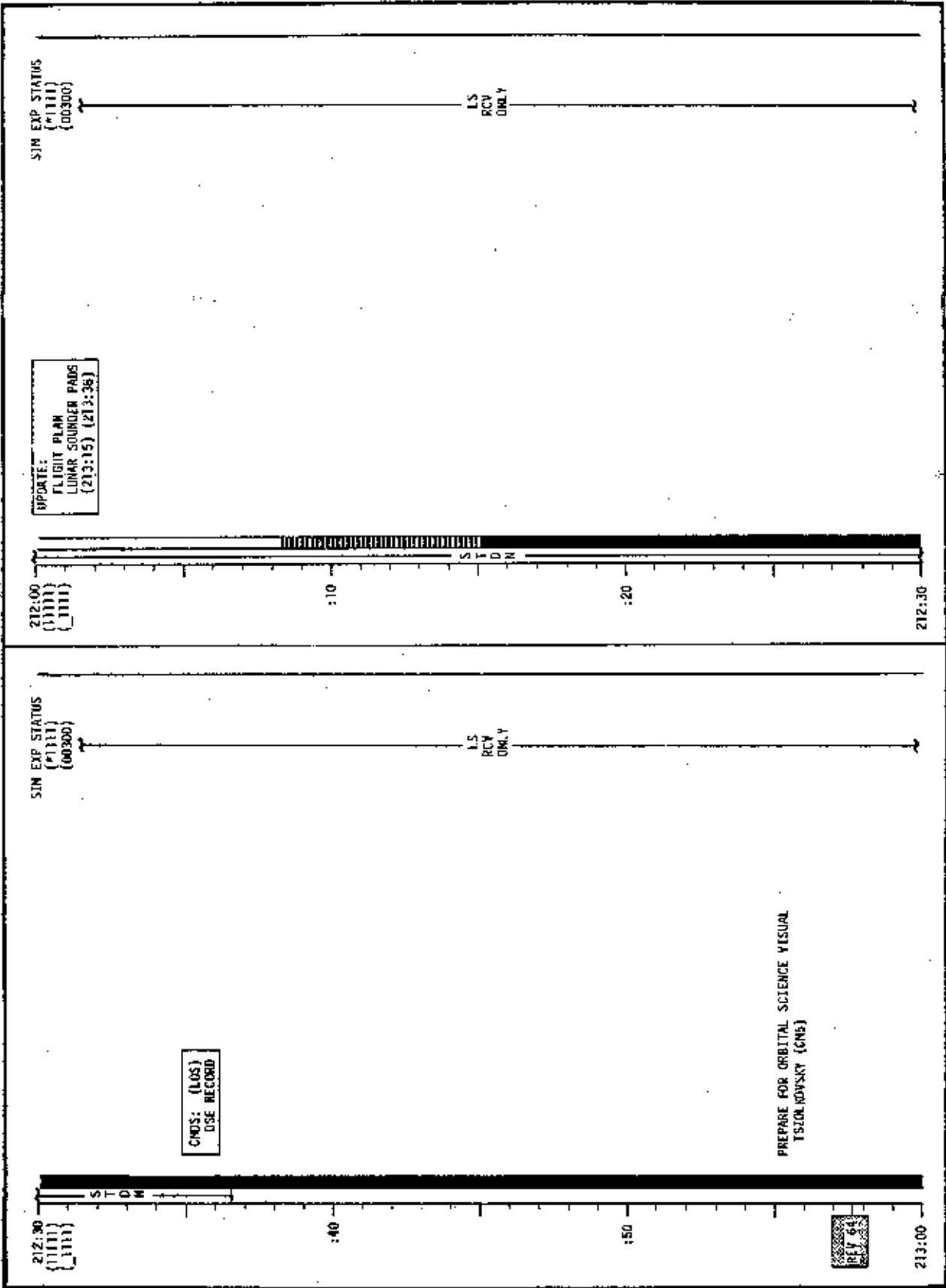
211:40 NOTE: ALL CREWMEN SKETCH SUNRISE AND SUNSET SOLAR CORONA BEFORE TEL.

CSM FLIGHT PLAN

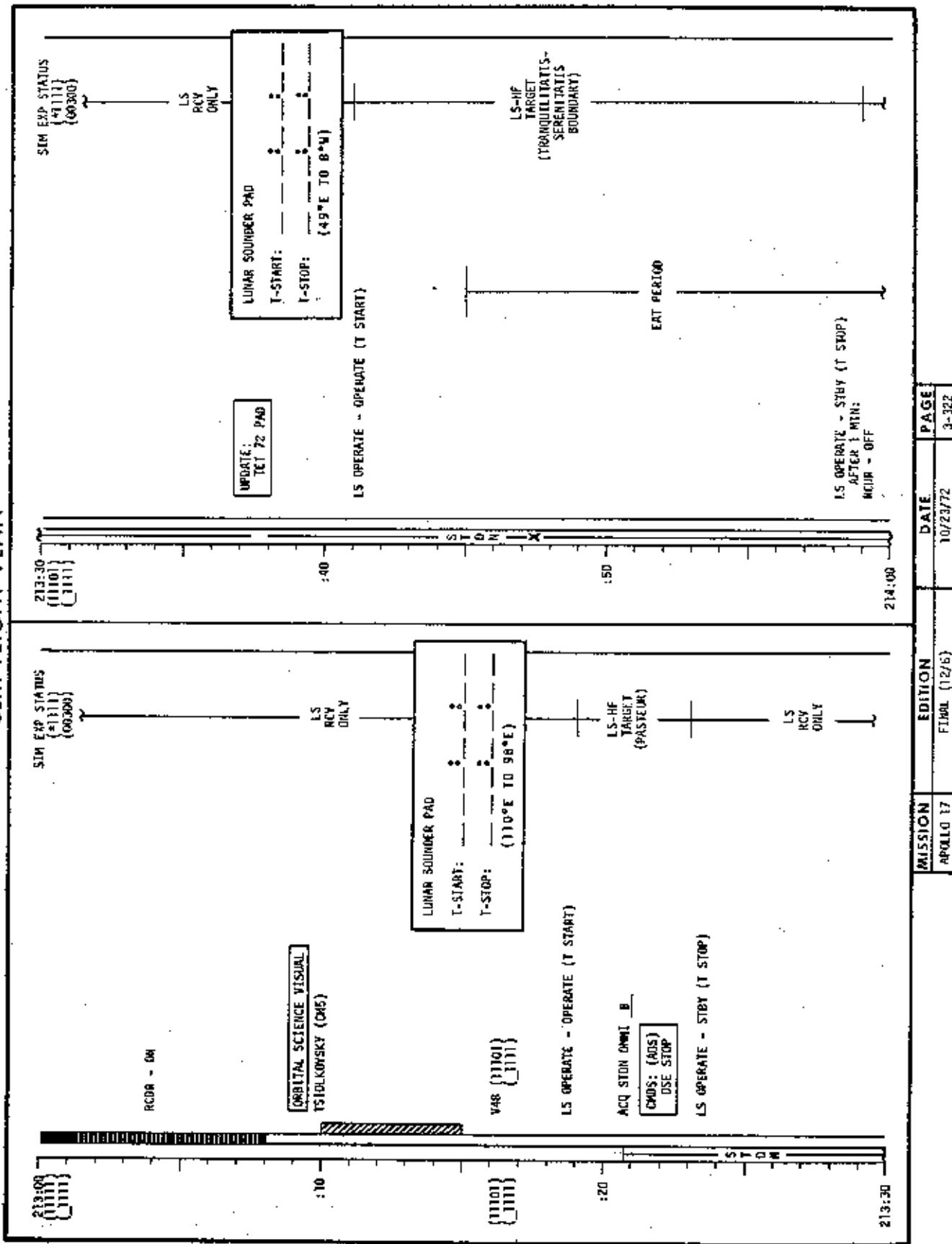


MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-329

CSM FLIGHT PLAN

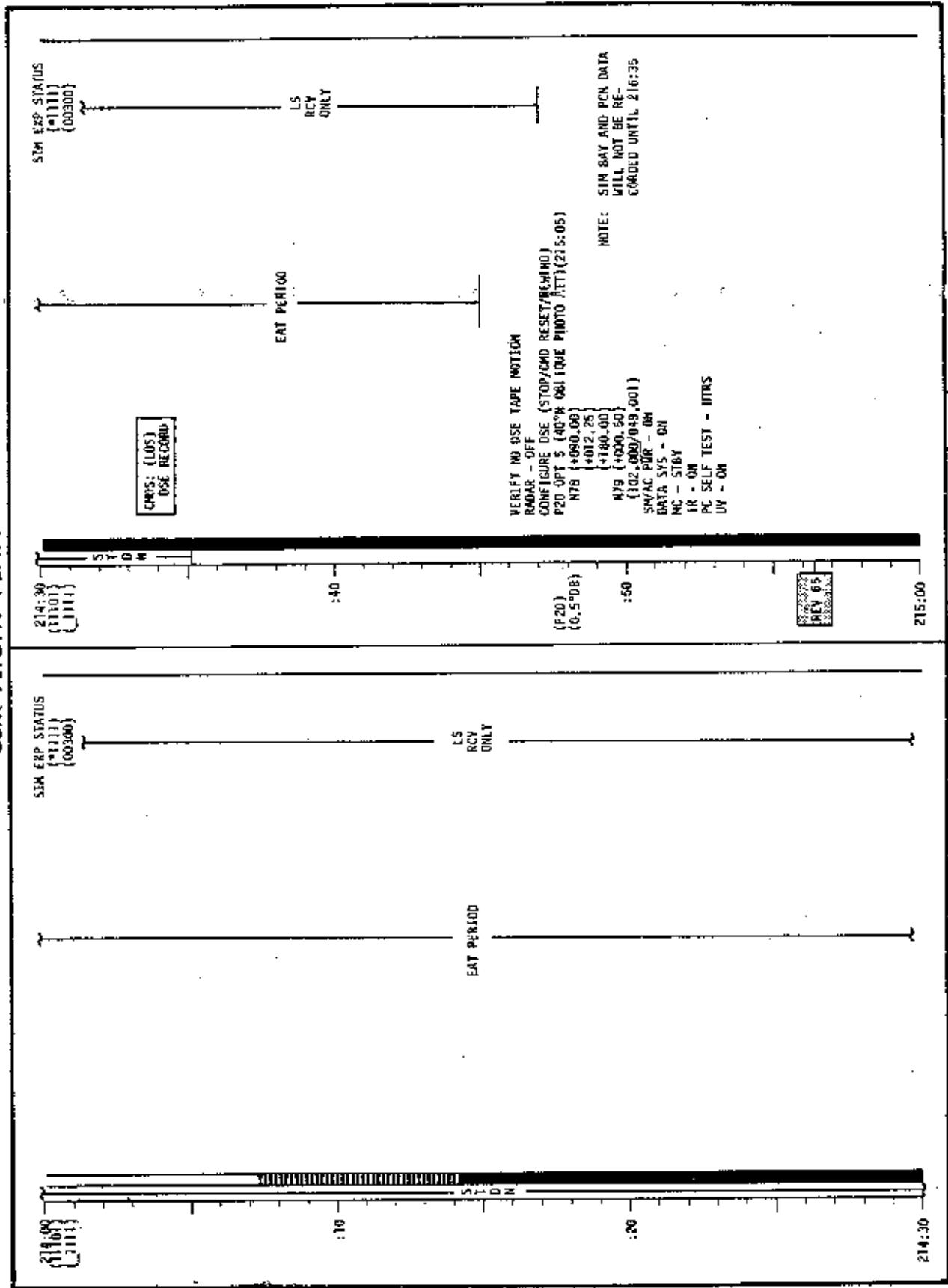


CSM FLIGHT PLAN



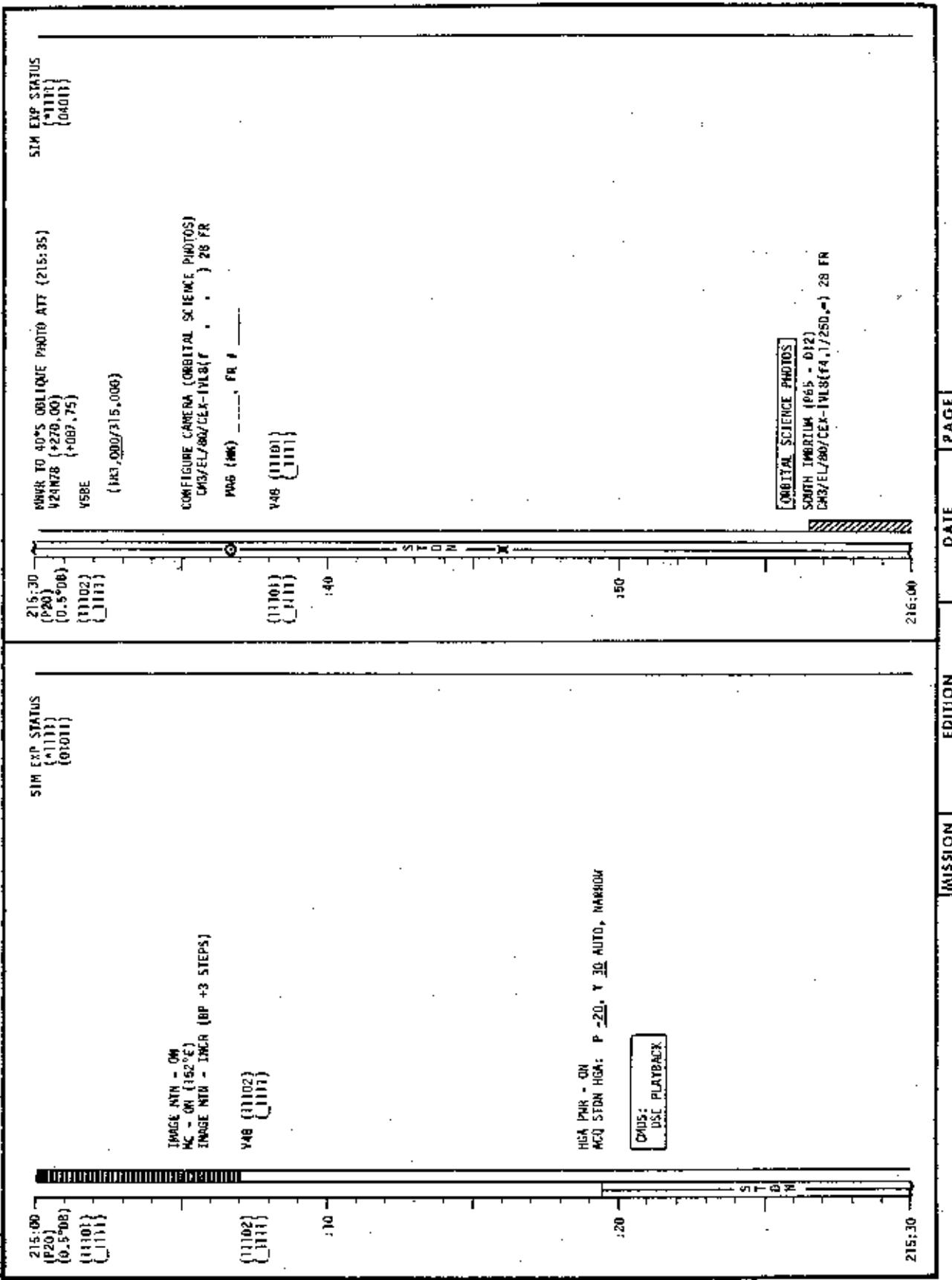
MISSION	EDITION	DATE	PAGE
APOLLO 17	F100L (12/6)	10/23/72	3-322

CSM FLIGHT PLAN

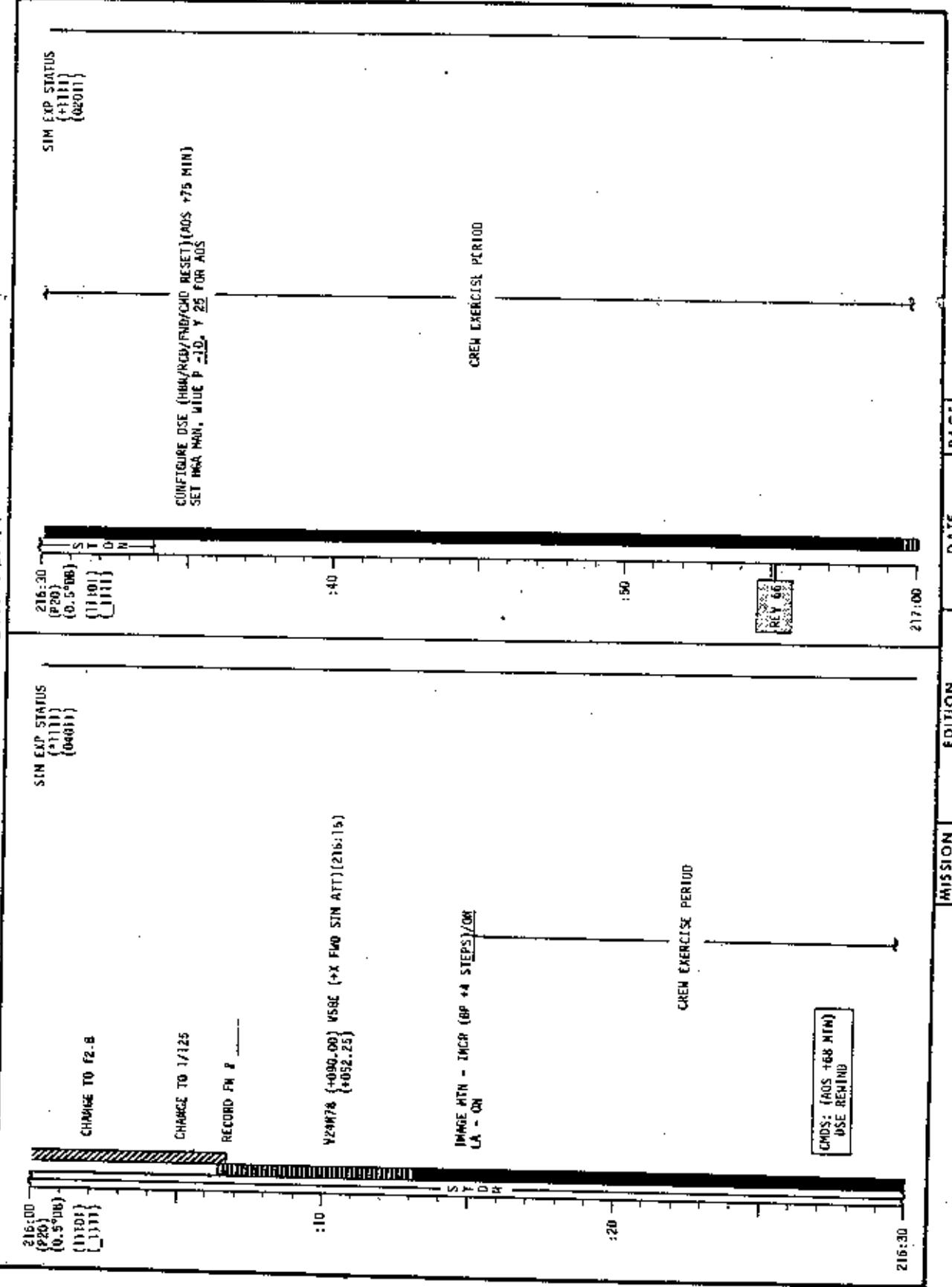


MISSION	EDITION	DATE	PAGE
APOGEE 17	FNL (12/6)	10/23/72	3-323

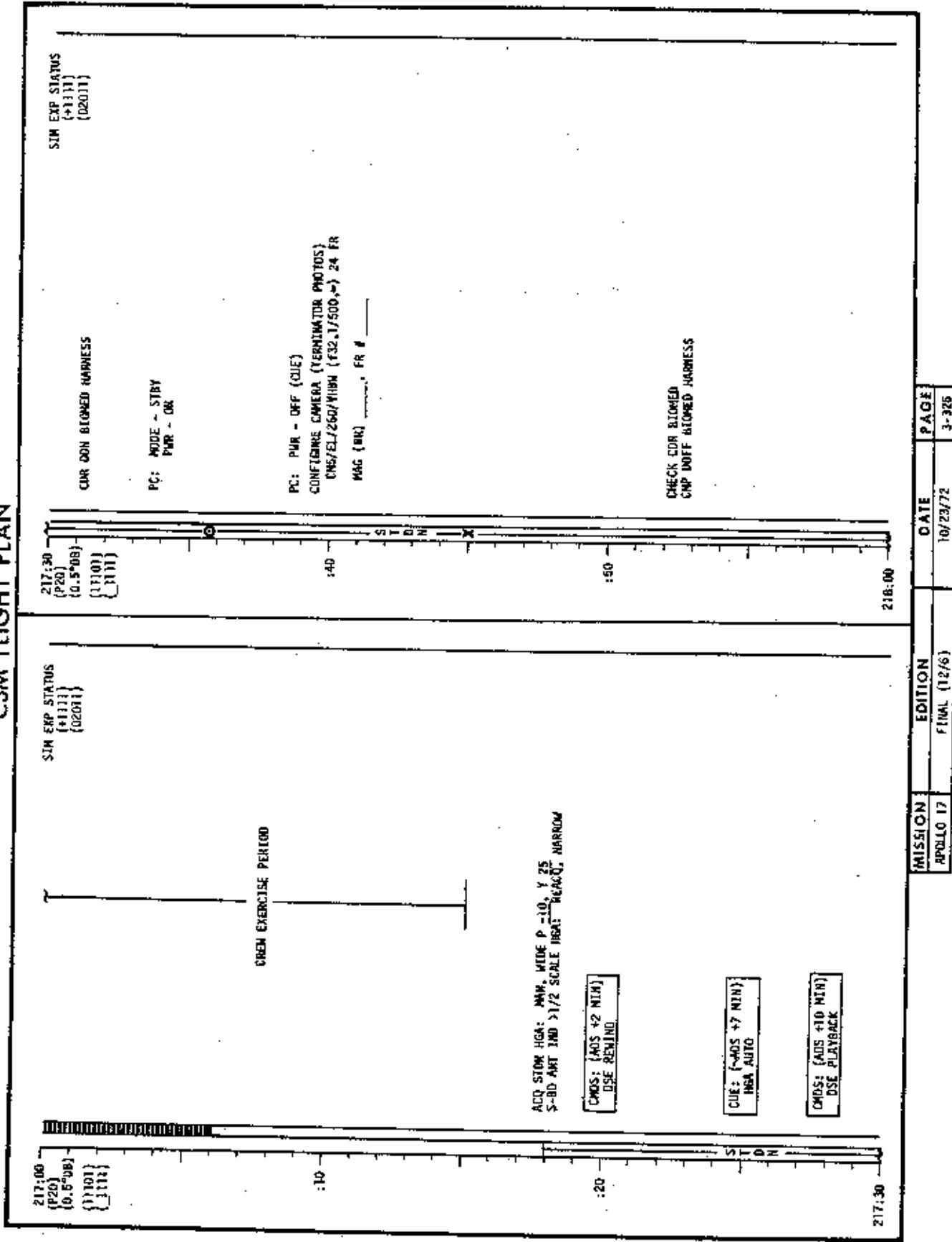
C5M FLIGHT PLAN



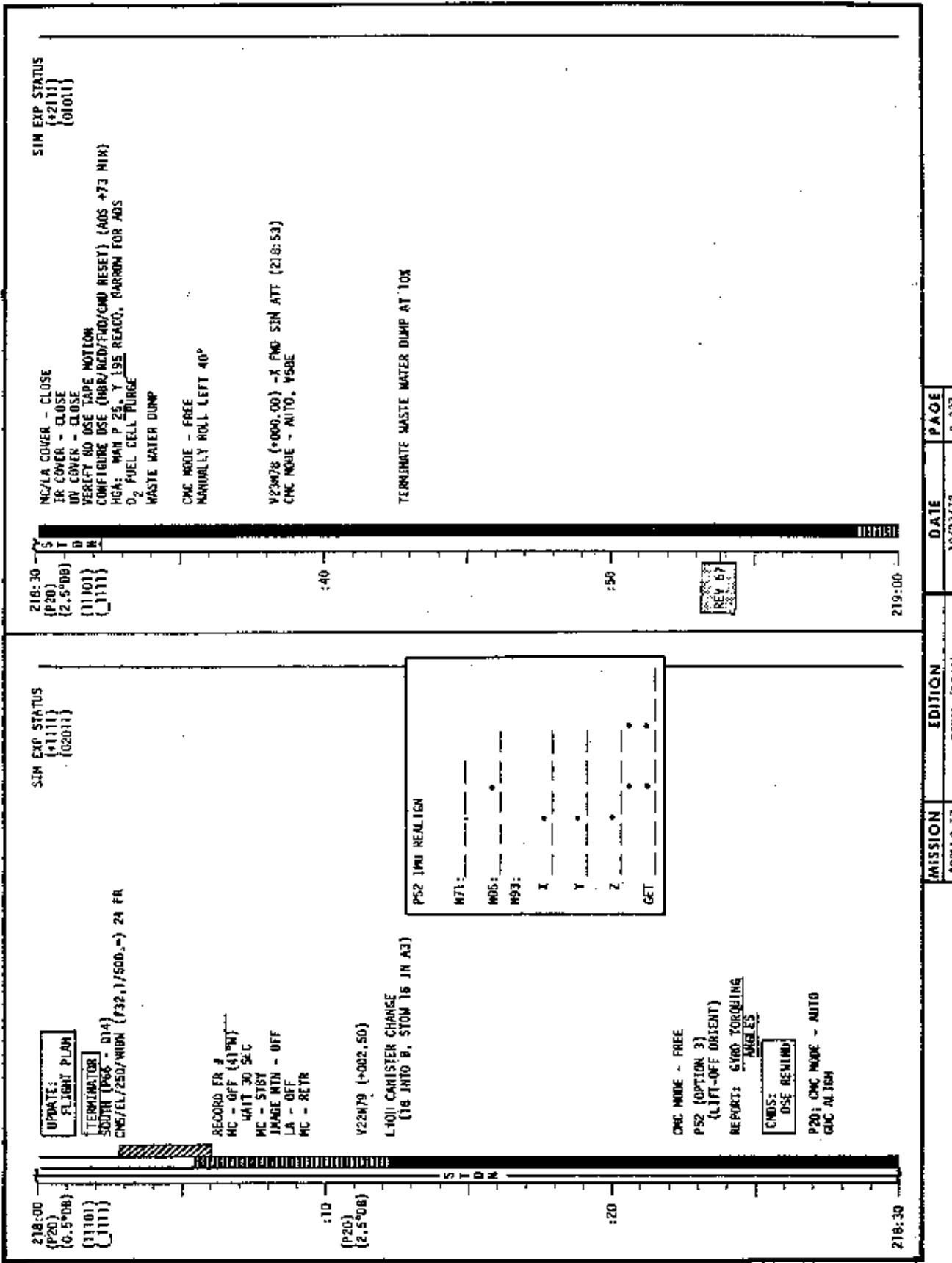
CSM FLIGHT PLAN



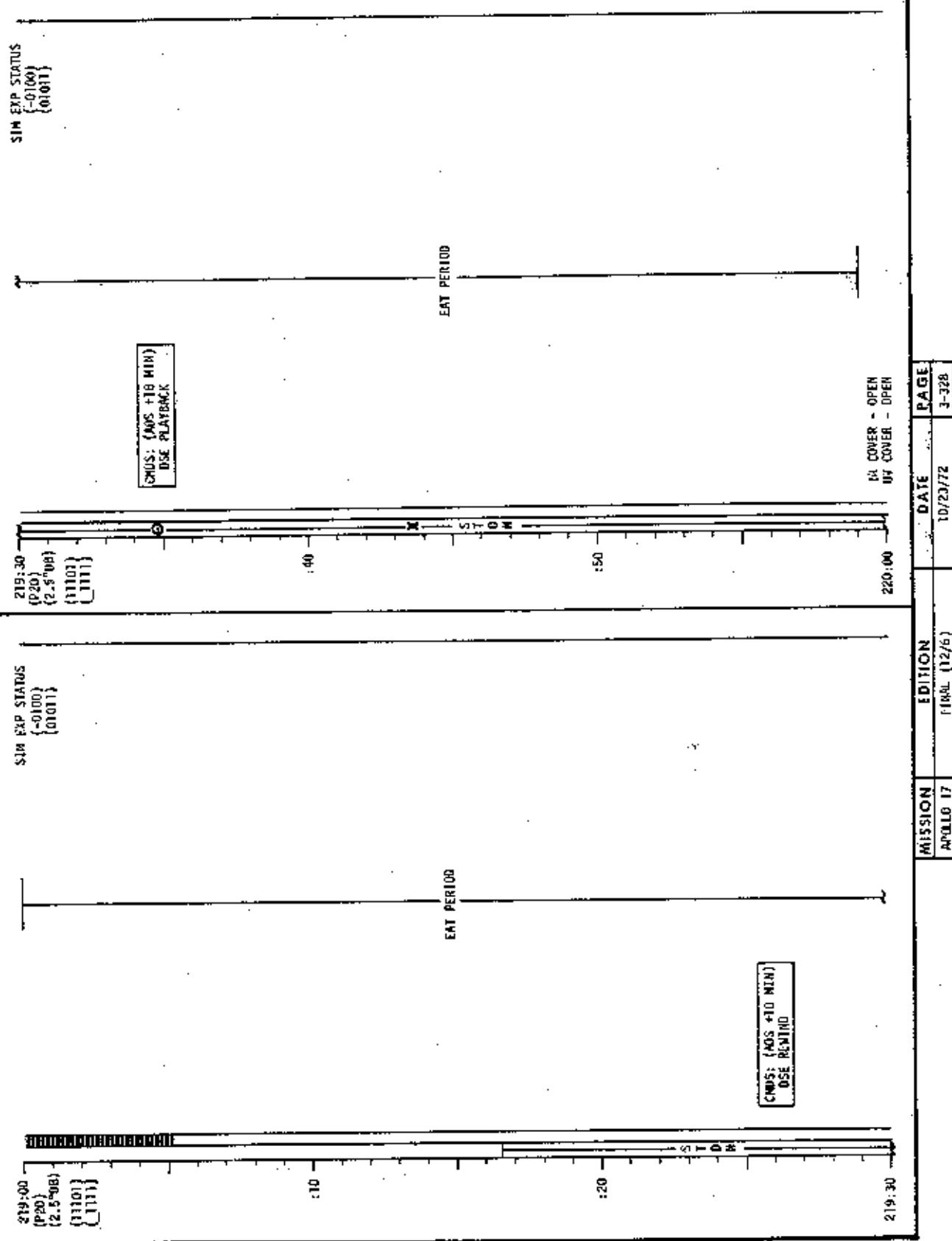
CSM FLIGHT PLAN



CSM FLIGHT PLAN



CSM FLIGHT PLAN



CCSM FLIGHT PLAN

INX:	SH S.V. & V66	SLEEP CHECKLIST	PAGE 51-1-20
ET-OR MONITOR LOADS			
SYSTEMS CHECKLIST			

220

SLW EXP STATUS

प्रिय-सार्व चेतावनी

FILM MASTERS REQUIREMENTS FOR THIS DAY:

88

REF ID: A05462 M1W

CMD5: (MOS +60 MIN)
DSE RECORD

CHECKED REHELD

3

הנחיות

10

434

2

4

1

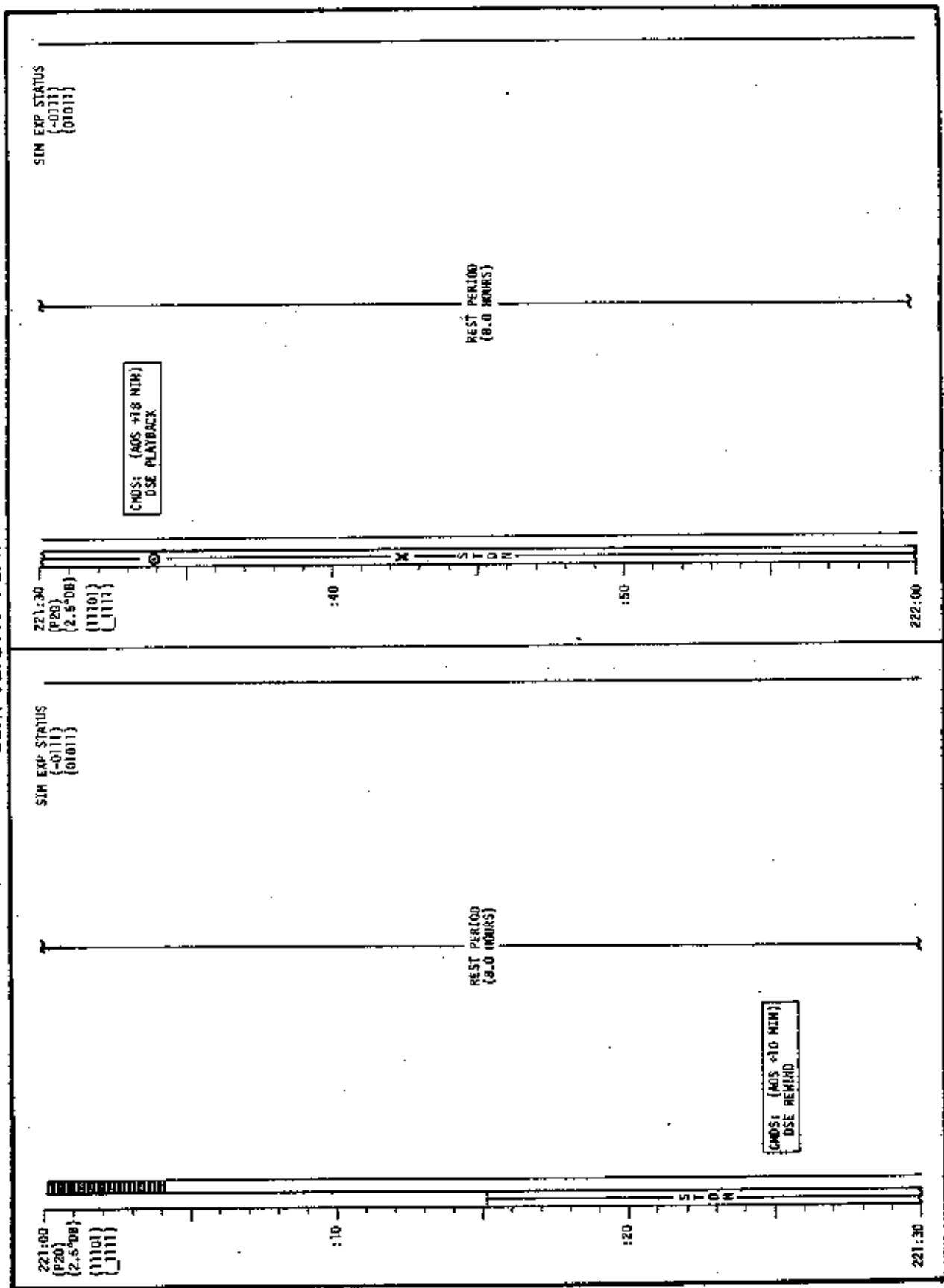
SUSKIN ET AL.

REST PERIOD
(8.0 HOURS)

221 : M

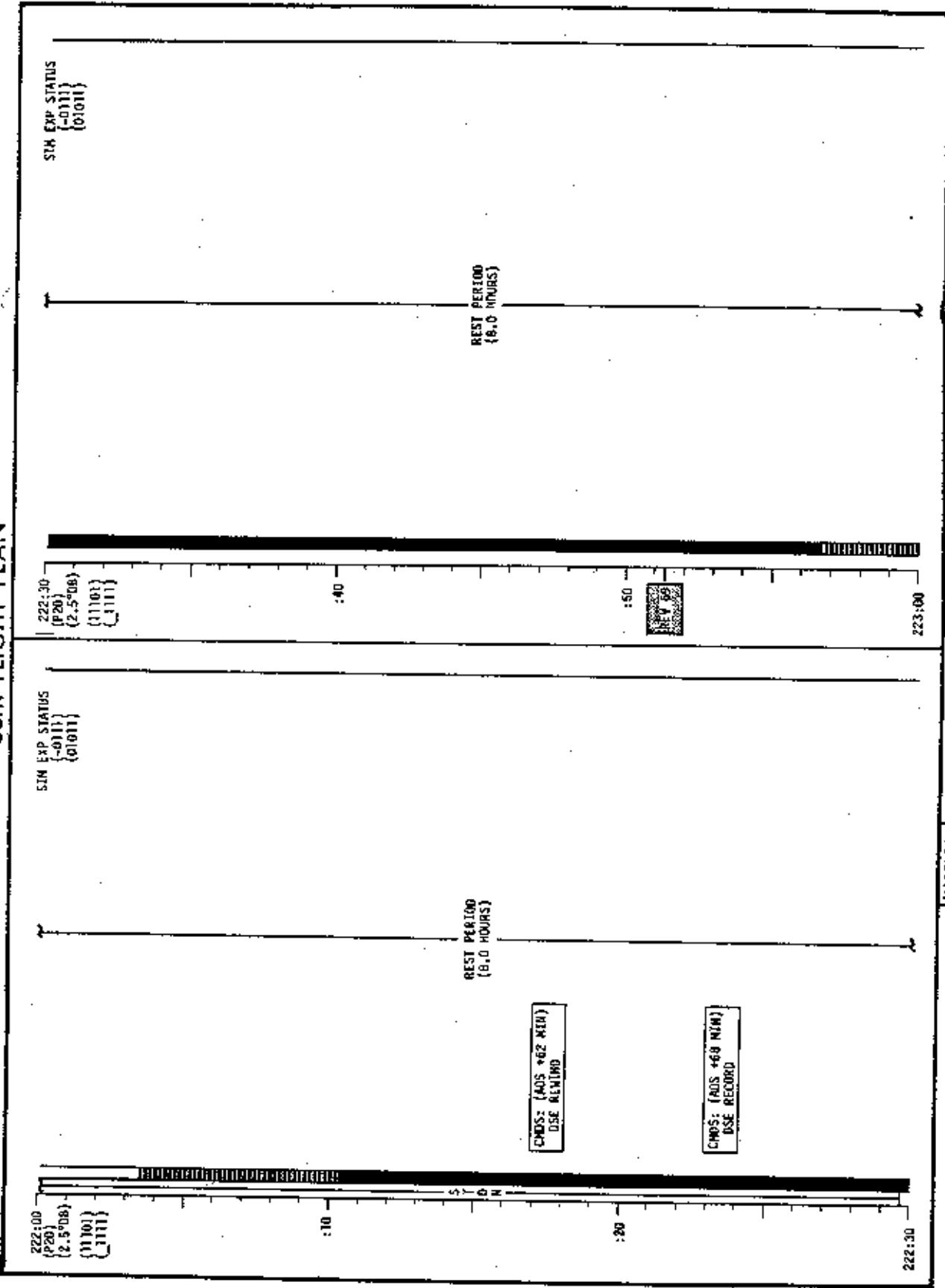
MISSION	EDITION	DATE	PAGE
APRIL 10 '77	FINAL (12/4)	MAY 22 '77	1-329

CSM FLIGHT PLAN

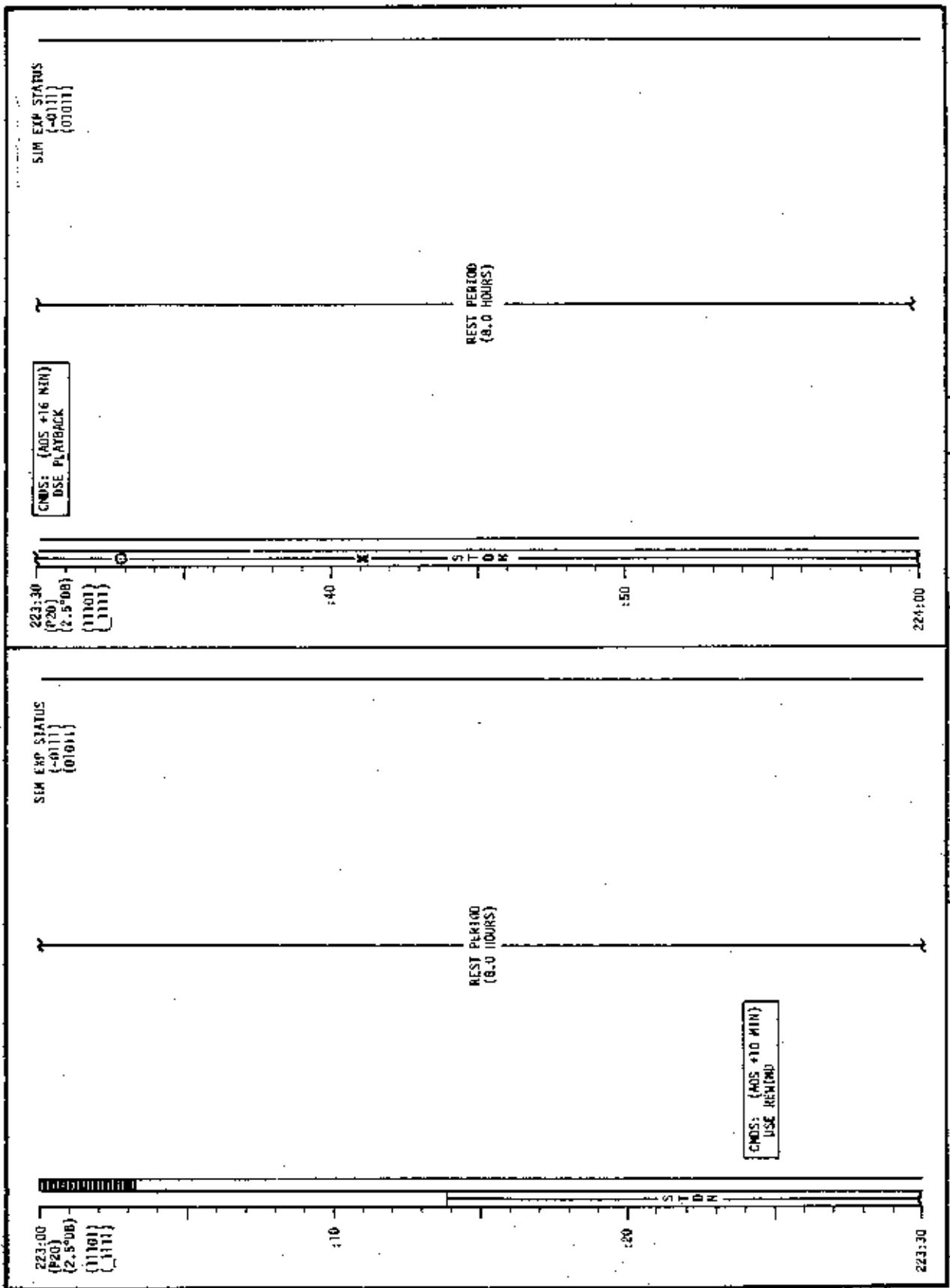


MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (126)	10/23/72	3-330

CSM FLIGHT PLAN

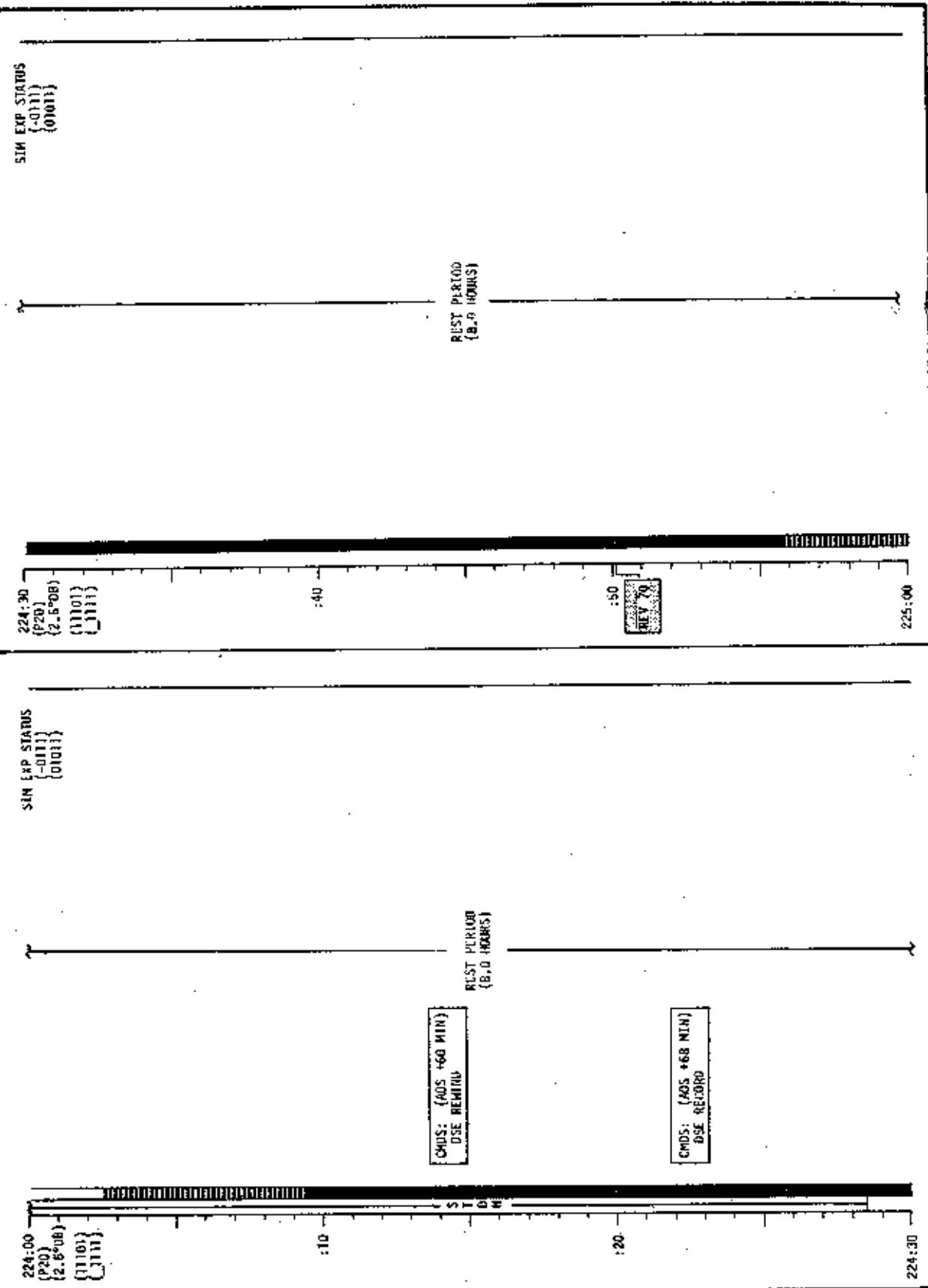


CSM FLIGHT PLAN



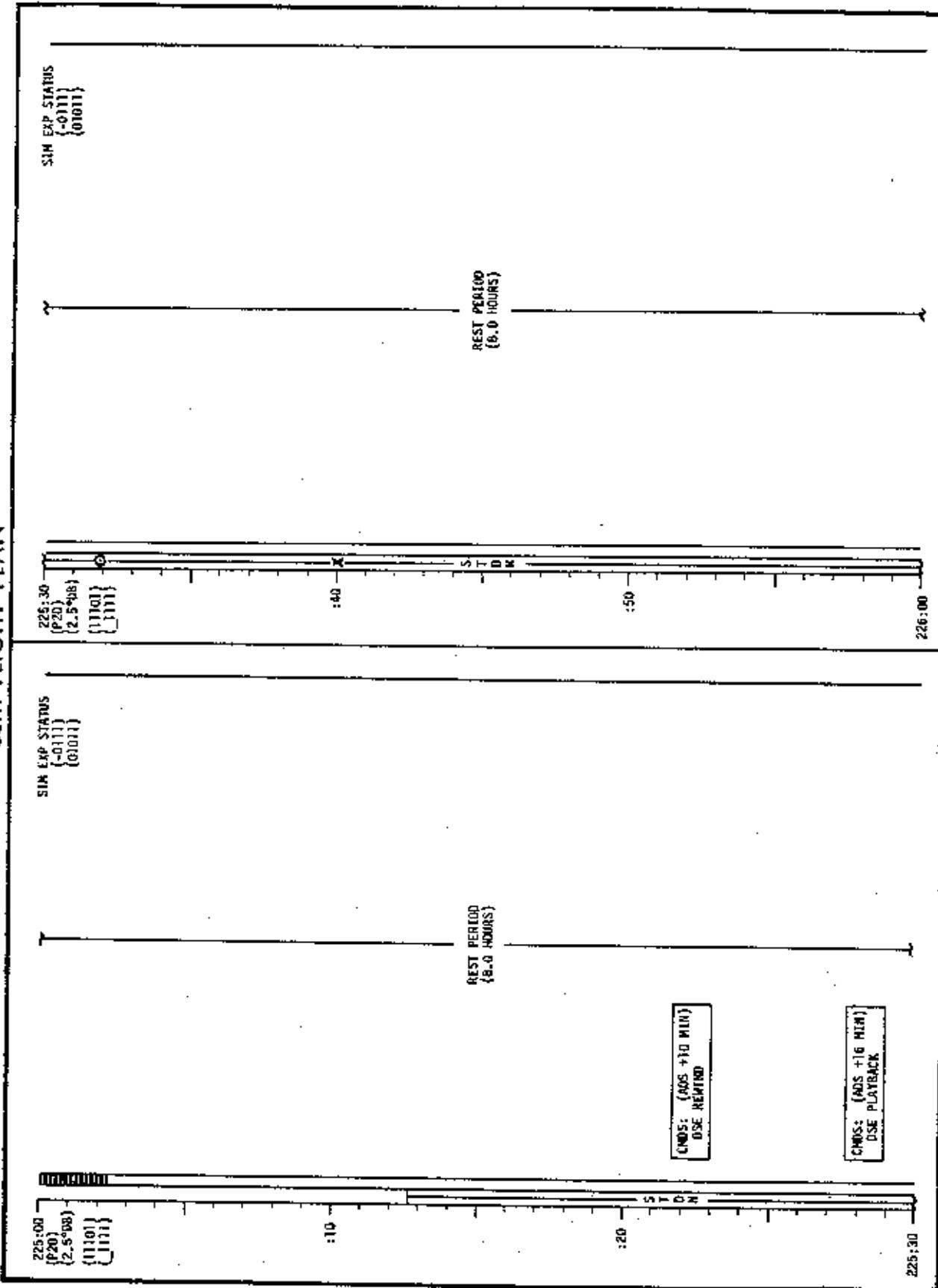
MISSION	EDITION	DATE	PAGE
APOLLO 17	F1/NM, (12/6)	10/23/72	3-332

CSM FLIGHT PLAN



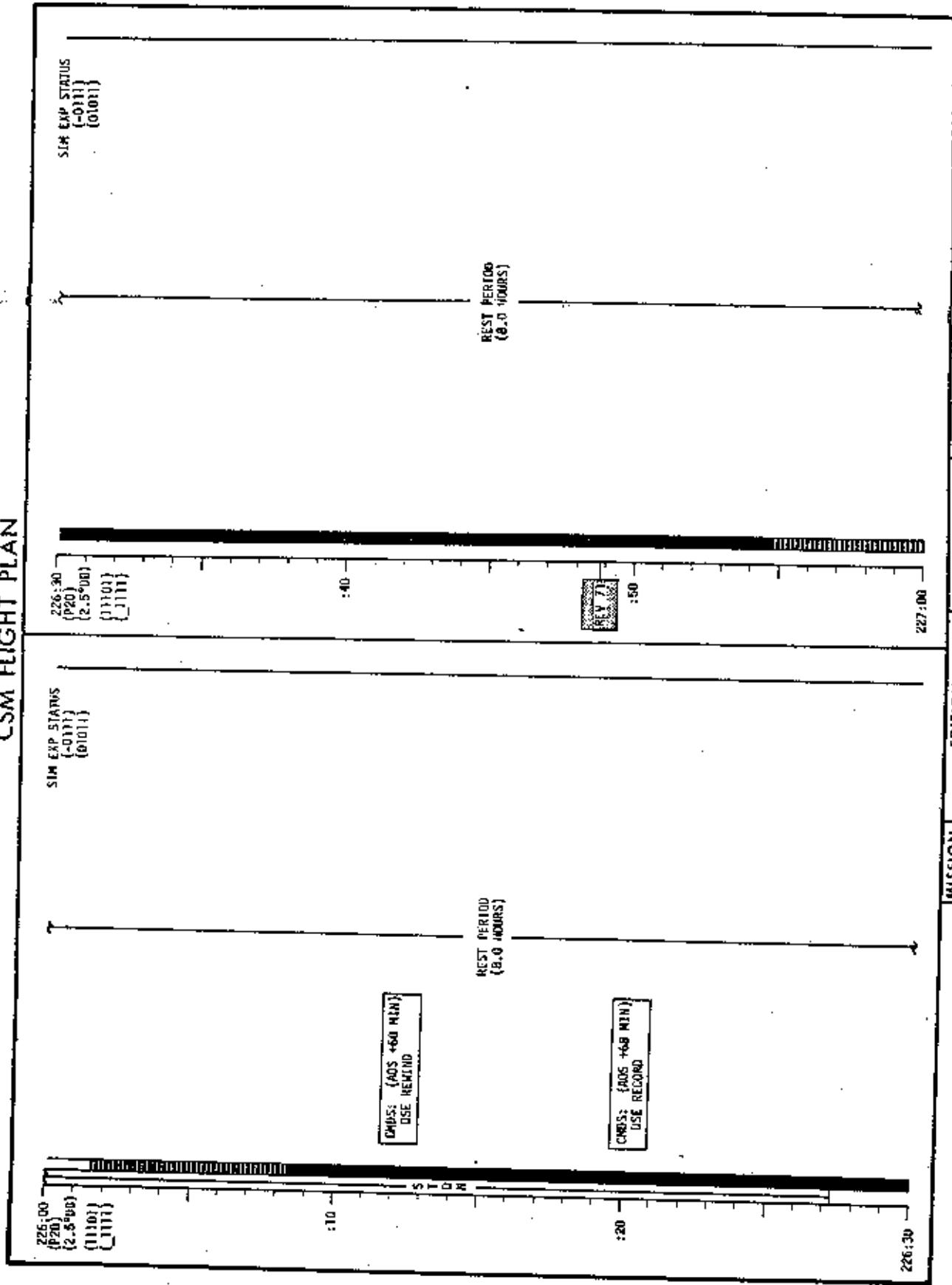
MISSION	EDITION	DATE	PAGE
Apollo 17	Final (12/6)	10/23/72	3-33

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-334

CSM FLIGHT PLAN



CSM FLIGHT PLAN

SIM EXP STATUS	SIM EXP STATUS	SIM EXP STATUS
{-0 11}	{-0 20}	{2.5~0 08}
{0 0 11}	{1 1 10 1}	{1 1 10 1}
{1 1 10 1}	{1 1 10 1}	{1 1 10 1}

1:40

1:50

2:00

2:10

2:20

2:30

REST PERIOD
48.0 HOURS)

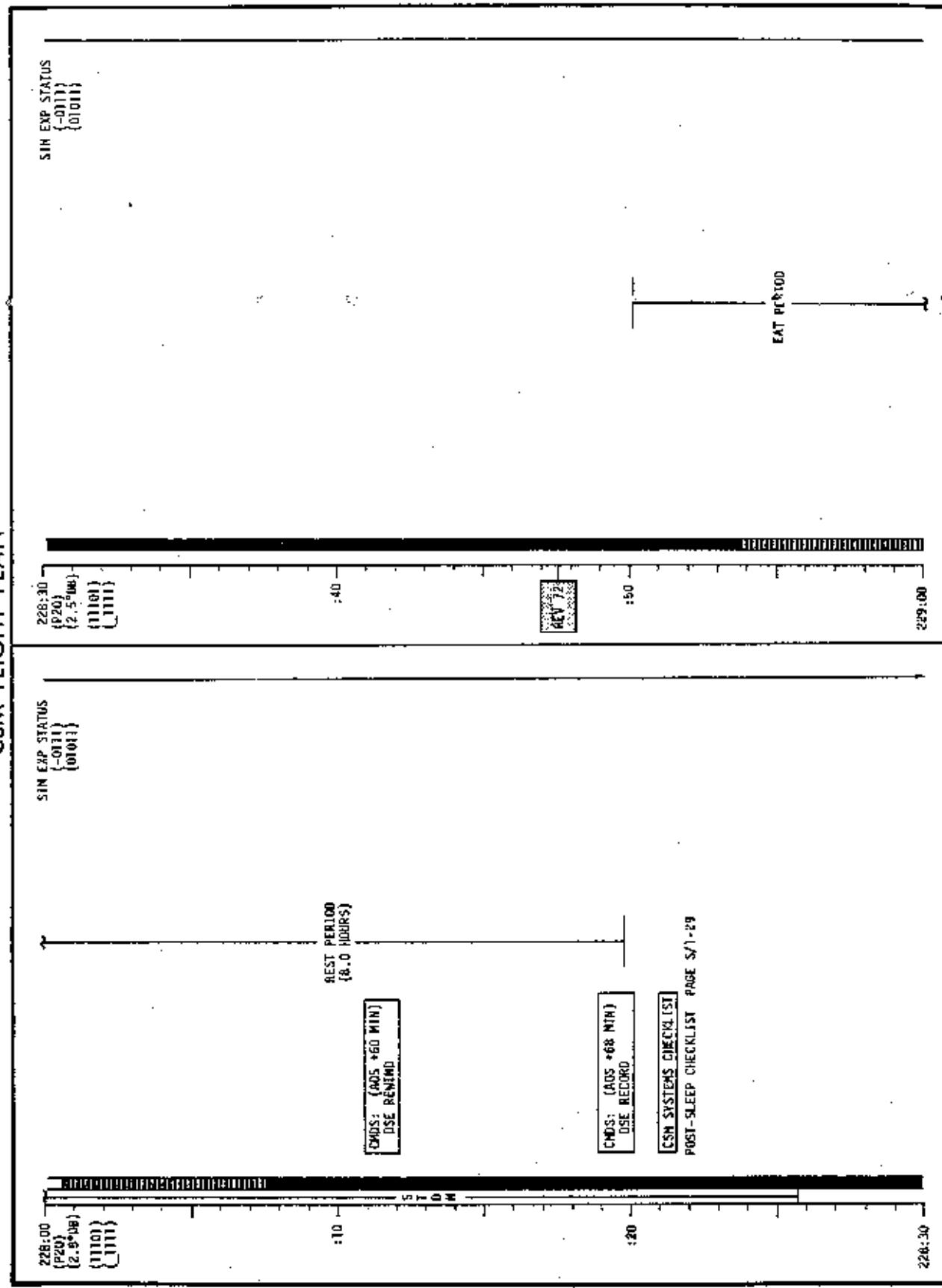
REST PERIOD
12.0 HOURS)

CHMS: (ADS + 10 MIN)
USE REMIND

CHMS: (ADS + 16 MIN)
DSC PLAYBACK

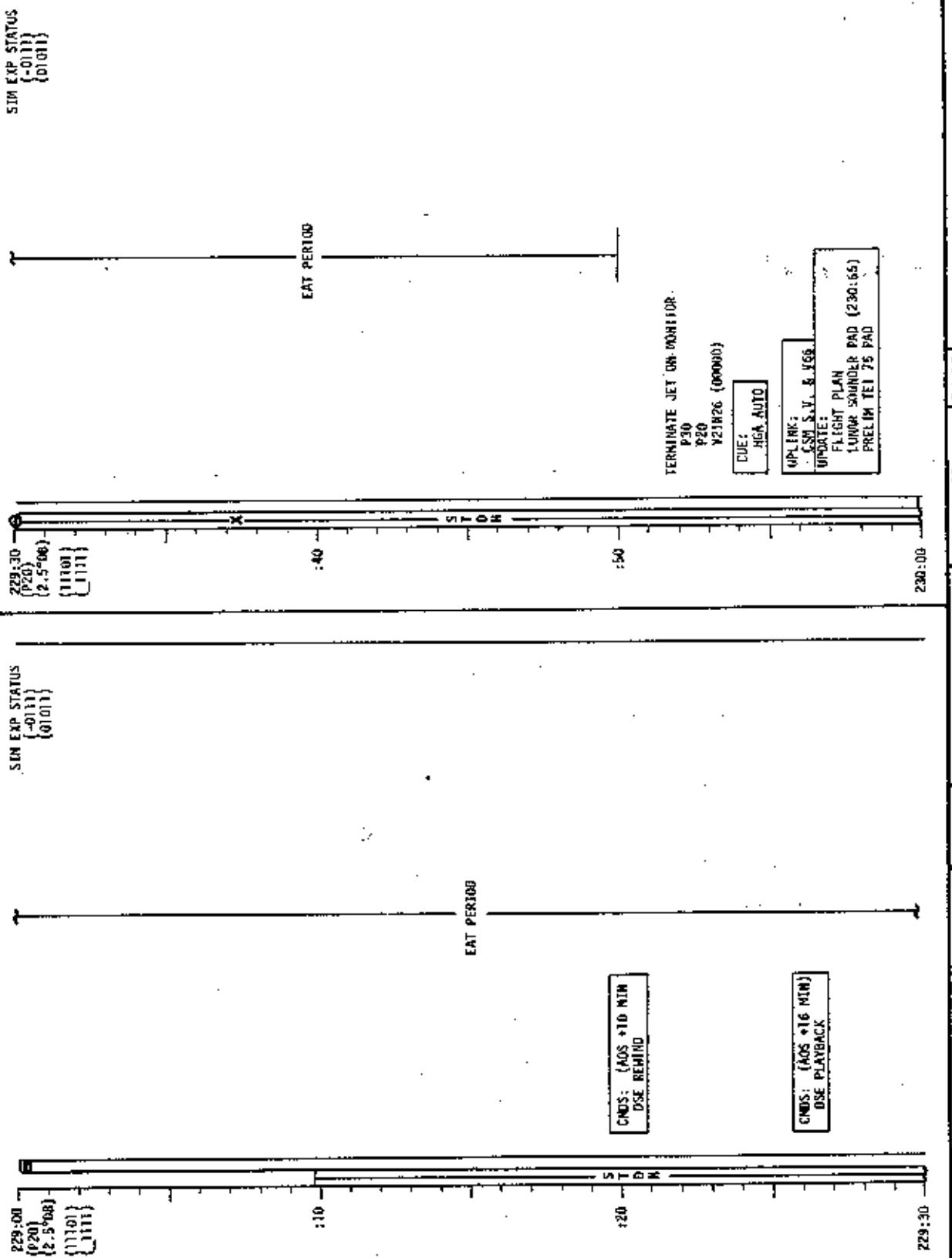
MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/77	3-336

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
Apollo 17	FINAL (12/61)	10/23/72	1-114

CSM FLIGHT PLAN



CSM FLIGHT PLAN

230-00
[P20] [2.500]
{11101} {11111}
H₂ PURGE LINE HEATERS - 09
CONFIRMED FOR URINE DUMP

SIN EXP STATUS

SIN EMP STATUS

REPORT: GRID 1

CMC MODE = FREE
**P52 (OPTION 3)
 {LIFT-OFF ORIENT}**
REPORT: EGYO TORQUE ANGLES

Y23078 [+180.00] +X FWD SIN ATT [230:30]
Y22879 [+000.50]
CNC WOOF - AUTO; V58E

15

1A - OFF
 PC SELF TEST - OFF
 UV - OFF
 DATA SYS - OFF
 SWAC PWR - OFF
 SET HIGH MAIN P - 23,
 HGA PWR - OFF
 SELECT DMM1 IN FG

 LS OPERATE - STAY ON
 RGRB - ON
 RADAN - ON
 RFLDR - OFF
 MODE - HF

[231:21] **NOTE:** USE VOICE RECORDED
UNTIL 230:39 WILL
NOT BE QUOTED

18 - OFF
PC SELF TEST - OFF
UV - OFF
DATA SYS - OFF
SWAC PAR - OFF
SET HGA MAN 0 - 27
Y 1A 85000 MAGNET 1000

CNAME: **YASA L1S**
 USE RECORD
 PCM BIT RATE = LOW

15

T-START: 00:00:00
T-STOP: 135°E 10 117°E

1135°E

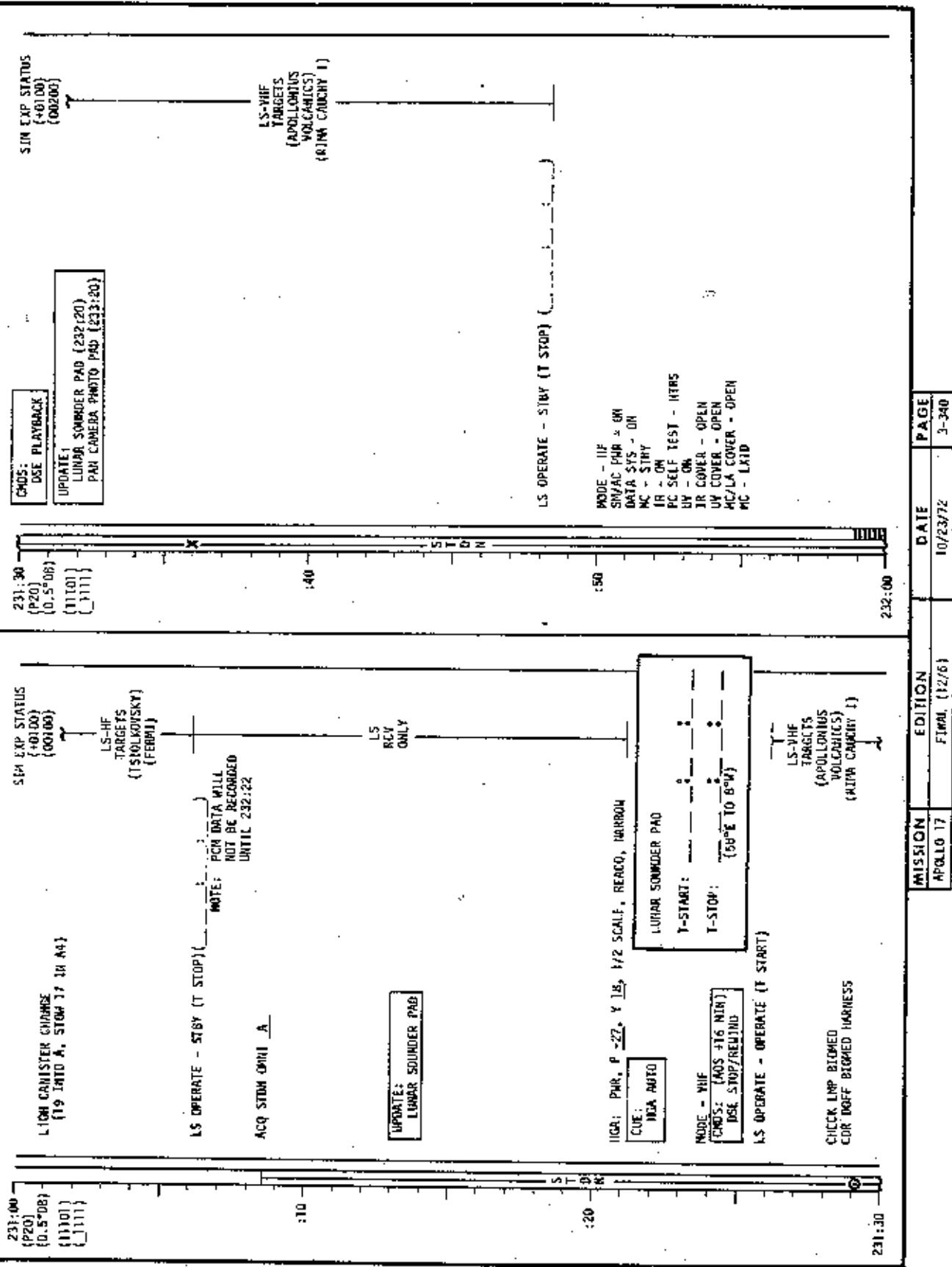
1135°E

L5 OPERATE : OPERATE (1 START)

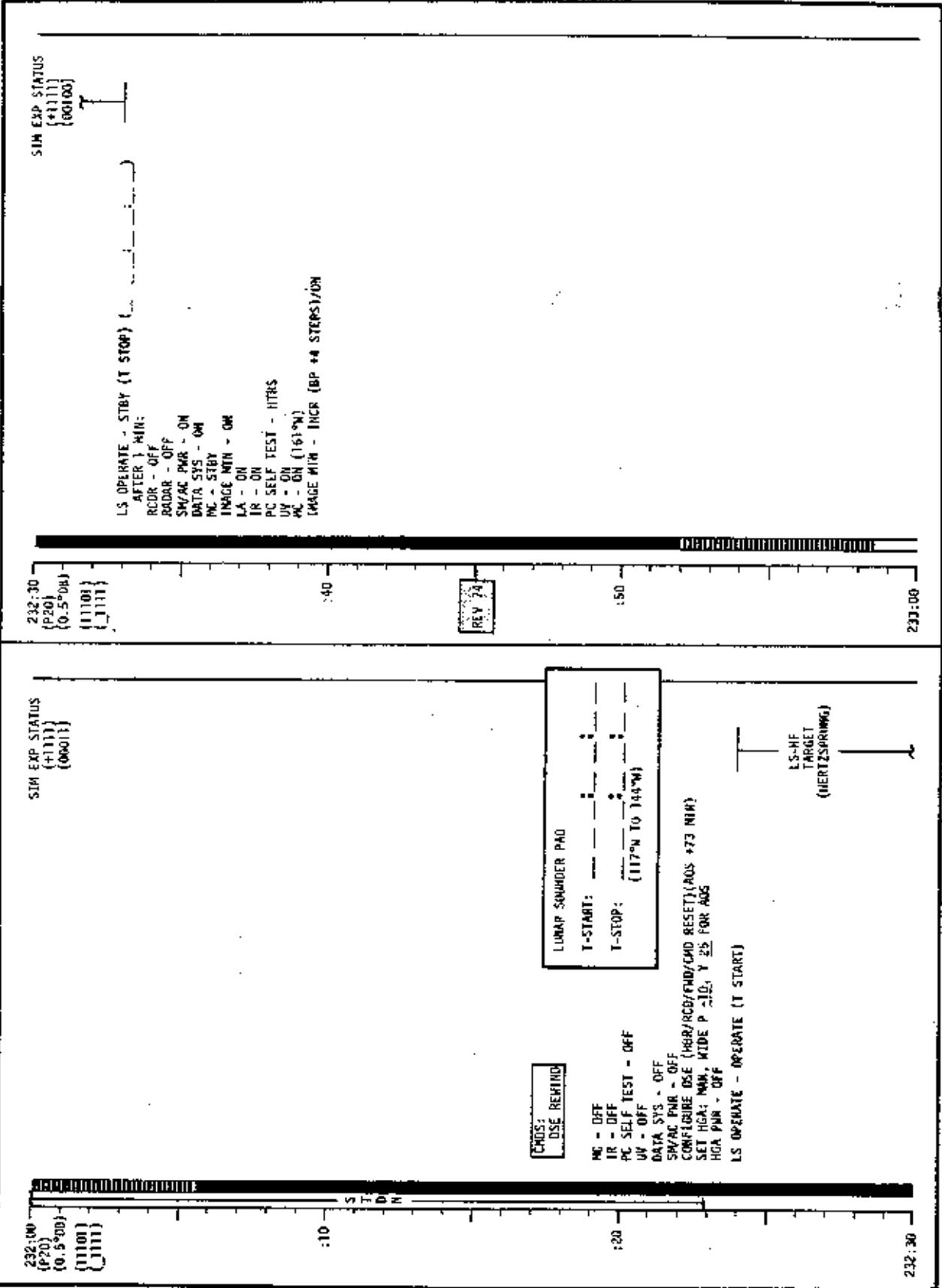
231:00] LS OPERATE : OPER

230

CSM FLIGHT PLAN

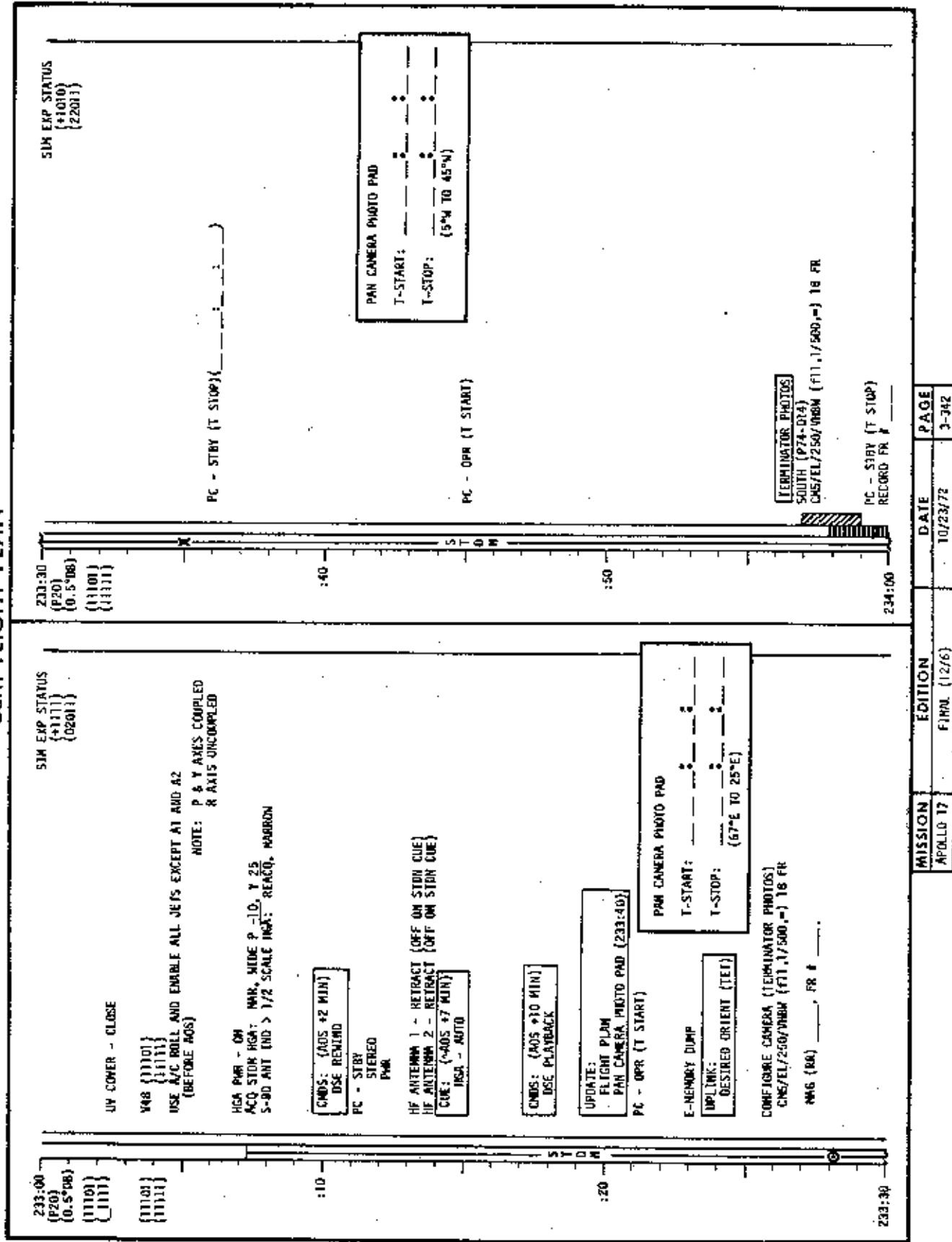


CSM FLIGHT PLAN

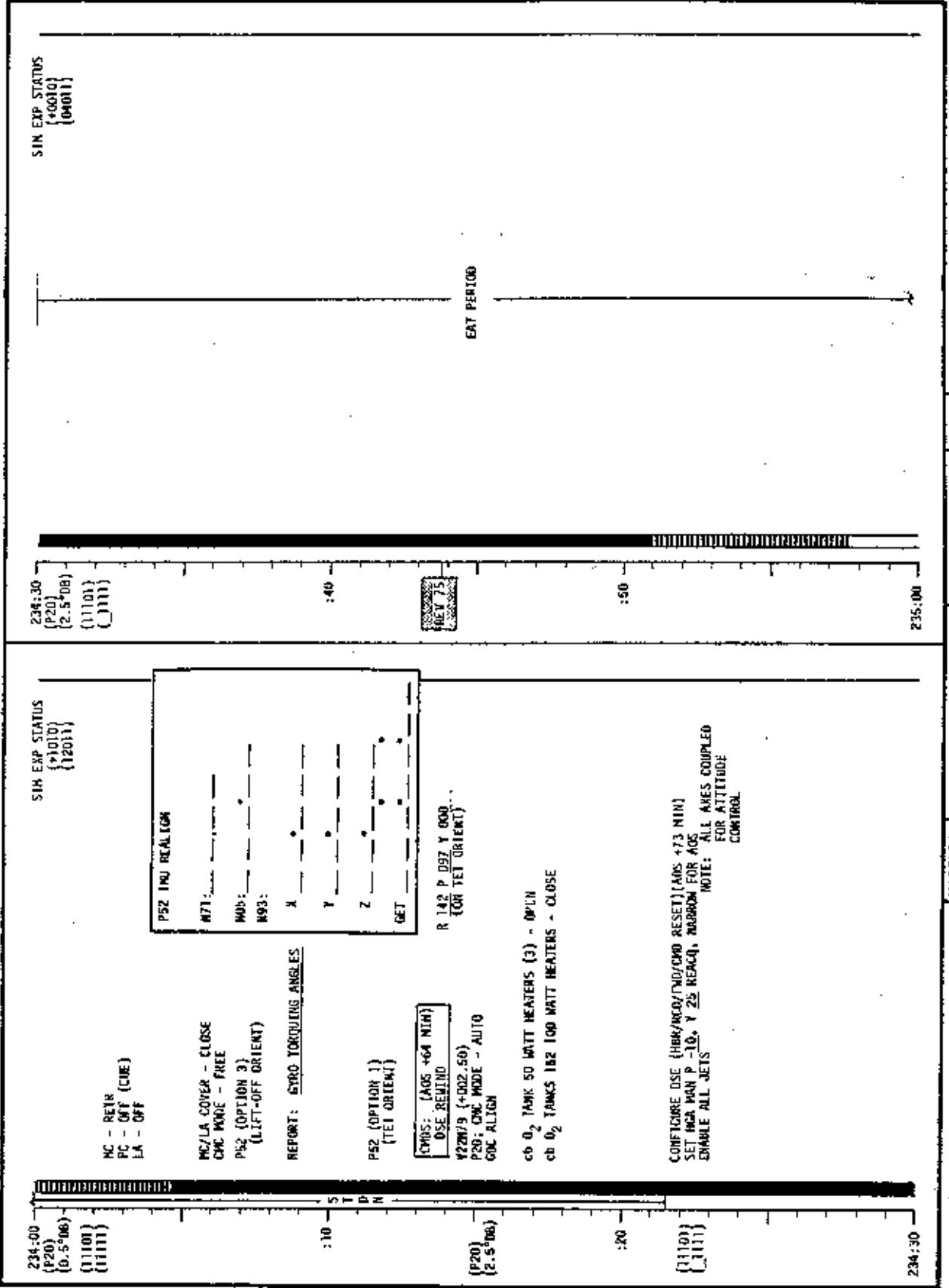


MISSION	EDITION	DATE	PAGE
APOLLO 17	FMM. (11/6)	10/23/72	3-341

CSM FLIGHT PLAN



CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	3-343

CSM FLIGHT PLAN

SIM EXP STATUS
[+4010]
[04011]

235:00
((20))
(2,598)
[1101]
[1111]

10



EAT PERIOD

CDS: (ADS +13 MIN)
DSE REWIND

5 D H
10
15
20

CDS: (ADS +21 MIN)
DSE PLAYBACK

235:30

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (126)	10/23/72	3-344

CSM FLIGHT PLAN

REFLINK: ESN 5.A. 6 966
TE 76 TAK L000
SIN ERG STATUS
(+006)
(0001)

235:30

UPLINK:	ESN 5, V ₆ 166
TEL 75 TGT LOAD	
UPDATE:	TEI 76 PAD (236:45)
	TEI 76 PAD
	WMP UPDATE REV 76 (236:50)

TYPE NO. OF SYSTEMS CHECKED

TYPE ENCL. NO. SYSTEMS FROM TUNNEL	PAGE S/1-20
CAMS OPERATIONAL ONE CICS	PAGE S/1-1
CAM RCS MONITORING ONE CICS	PAGE S/1-1
CAM RCS MONITORING ONE CICS	PAGE S/1-1
SPPS MONITORING CHECKS	PAGE S/1-1

MC - OFF
 WAIT 30 SEC
 ON - STBY
 ERASE MN - OFF
 PRE-SPS BURN SH PREP (CUE CARD) EXCEPT: IR COVER .. OPEN
 P20; VERIFY TEI TIG AND AV's
 DMC MODE - FREE
 P00
 DMC MODE - AUTO
 WAS (RESET LUNAR SURFACE FLAG)
 DMC MODE TO 1000 AND BURN AT 1000

CHDS: (AGB LOG)

P30 MANEUVER		PHASEDOD		P40/P7/G8/G10	
SET STARS	T E T	S P S	G & N	WT	N47
P ALIGN	*	0 0		P TRIM	W48
P ALIGN		0 0		V TRIM	
Y ALIGN	*	0 0		HRS	GETI
		+ 0 0		NTR	633
		+ 0 0		SEC	
UNLAGE		+ 0		A/V X	W61
				A/V Y	
				A/U Z	
			X X X	R (180)	
			X X X	P (600)	
			X X X	V (600)	
				H A	N64
				H P	
				A/VT	
			X X X	BT	
			X X X	AVC	
FOR 200/400 MINUTE				SAT5	
				O SFT	
				O O	TRN
				X X R	BSS
				X X	SPA
				X X X	SXP
OTHER		O		LAT	N61
				LONG	
				RTG	ENS
				VID	
					GET 0.05G

CSM FLIGHT PLAN

236:00
(11101)
(11111)

SIM EXP STATUS
[49010]
(31011)

UPDATE!
601MD-60 FOR TEL

V48 {11102}
(01111)

P40
10 T D R

CMS:
DSE RECORD
PCM BIT RATE - HIGH
VERIFY DSE TAPE ACTION (RBN/RCD/FWD/LND RESET)
SET HGA NAV P 47, Y 250 AUTO, NOBROW FOR AGS

SAT STAR CHECK

P40 (TRIM)

P40
(0.5°BB)

236:30

MISSION	EDITION	DATE	PAGE
APOLLO 17	FINAL (12/6)	10/24/72	3-346

CSM FLIGHT PLAN

SIM EXP STATUS
[*1010]
[3101]

NOTE:

NOTE:
1) PCM IS ALREADY IN HEAT.
2) DO NOT GO LBR POST-SPS.

* * * * * TIE 19 SEC WITHIN VIOLATING SPS OR RESERVE FOR MCC
* * * * * 19 SEC MAY BE DELAYED
* * * * * SINGLE BANK BURN TIME
* * * * * 2 MIN 27.6 SEC

TIG: 236:59:51
 BT: 2 MIN 22.2 SEC
 AFT: 3045.7 FEET/SEC
 WAGE: 4 JET 12 SEC
 088811: N/A

EST-SPS BURN SIM PAGE (CUE 7400)

(605) 236-5110 237-25 - CM 3 (f) - MONITOR
WHILE ALL DATA EXCEPT: D1 B2, A3, C4, B5, D4
COVER - OPEN N
LA CLOUD - OPEN
EXTD - OPEN
BD AUX TV - TV

9 STATION ITEM: P 41, Y 250 AUTO, MARROM

ON STUDY MONO PHR V/H DWD - HS ALT UN DAMAGE MTN - INCR (BP +3 REPORT: BURN STATUS

SIN EXP STATUS

TEI Barn Table					RC5 TRIM GUIDELINES
SPS LIMITS	P OR Y RATES	ATT DEVIATION	MANUAL START ACTION	OVERBURN SHUTDOWN CRITERIA	
MEDIUM	10° / SEC	$\pm 10^\circ$	GAN = DELAY 1 REV SCS = START	BT + 2 SECS $\Delta \theta = -40^\circ$ $\Delta C = 90^\circ$	TRIM X AND Z AXES TO 0 FPS IF (+) V > 0.11 RIGHT USE 90° AMP USE 4 THRUSTERS

NOTE: GEAR VALVE FAILURE - START ON SUSPECT BANK

PST-SPS BURN SIM PREP (CUE CARD)
1 (SDS) 236:53 TO 237:25 - GM 3 (if MONITOR)
HIGHLIGHT ALL JETS EXCEPT: GM 62, A3, C4, B3, D4
COVER - OPEN
LA COVER - OPEN
END
END AGV TV - IV

9 STATION ITEM: P 41, Y 250 AUTO, MARROM

UN
STUDY
MONO
PHR
V/H DWD - HS ALT
UN
MAGGIE MTH - INCR (BP +3
REPORT: BURN STATUS

P&P UPDATE REV 76

ମୁଦ୍ରଣ ତଥା ପ୍ରକାଶକ

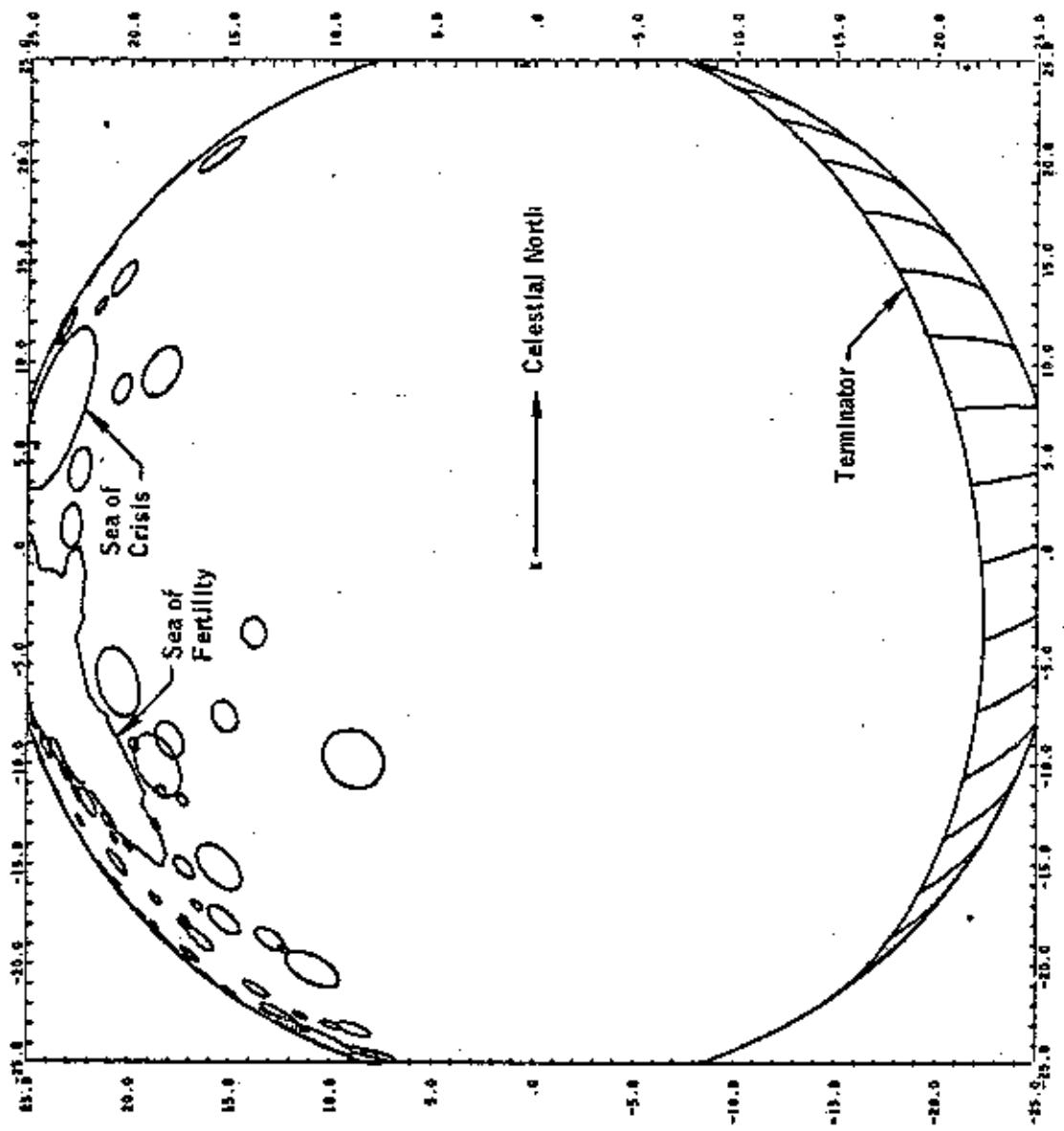
AOS WITH EUE

11

MISSION	EDITION	DATE	PAGE
APRIL 17	EDITION 17/6	10/23/17	7-10V

MISSION	EDITION	DATE	PAGE
APRIL 17	EDITION 17/6	10/23/17	7-10V

Longitude = 96.24° Latitude = -13.32° Radius = 2121.73 n. mi.



APOLLO 17

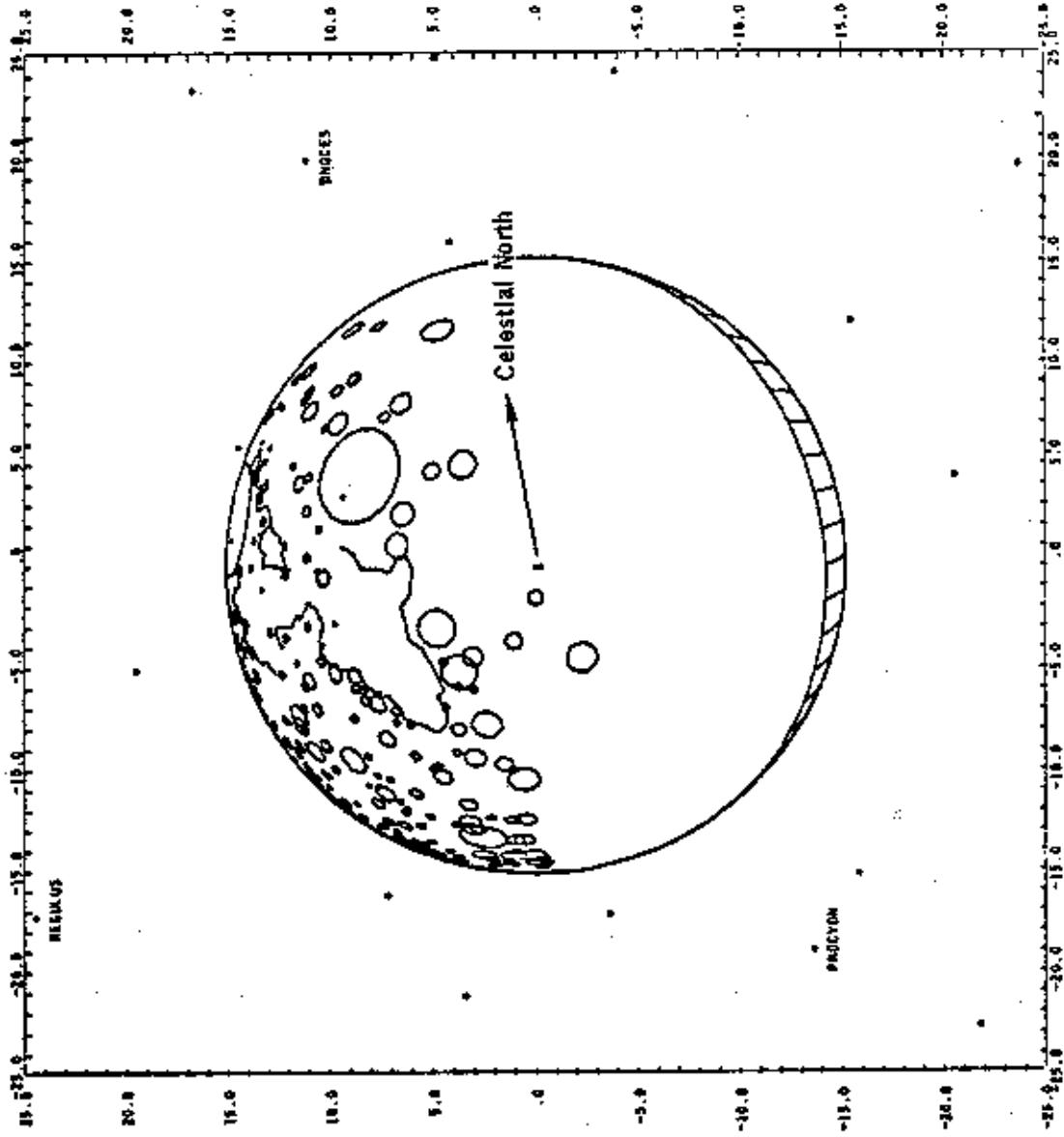
FINAL (12/6) 10/23/72

3-348

Longitude = 78.28°

Latitude = -6.51°

Radius = 3587.53 n. mi.



P27 UPDATE

PURP	T	E	I	R	O	N	V	T	V	V	V
GET	236°	43°	13.3	*	*	*	*	*	*	*	*
	01	INDEX	2	1	INDEX		INDEX				
304	01										
305	02	0	1	5	0	1					
306	03	0	0	0	0	2					
307	04	0	0	2	4	7					
310	05	1	7	3	1	4					
311	06	0	0	2	2	6					
312	07	2	7	6	0	1					
313	10	7	7	7	3	6					
314	11	4	7	2	2	3					
315	12	1	7	3	5	4					
316	13	0	6	7	6	5					
317	14	5	7	5	7	1					
320	15	4	2	4	1	5					
321	16	6	3	7	6	6					
322	17	4	5	0	2	0					
323	20	1	2	1	2	1					
324	21	1	1	3	2	0					
325	22										
326	23										
327	24										
N34		HRS	X	X			X	X			
		MIN	X	X	X		X	X			
		NAV CHECK SEC	X	X			X	X			
N43	LAT		0				0				
	LONG										
	ALT	+ 0					+ 0				

APOLLO 17

FINAL (12/6) 10/23/72

3-350

FLIGHT PLAN

MCC-H

1753 CST

PC - STBY AT (tb - bp)

(11102)
(01111)

V48 (11101)(01111)

:10

Y

CMD
DSE REWIND

:20

S-BD AUX TV - SCI

PC - OFF (STDIN CUE)
V49 MNVR TO UV STELLAR TGT ATT (LY & MIN) (237:45)

(137,189,000) HGA: P -72, Y 309

:40

CMD
DSE PLAYBACK

:50

COPY CSM S.V. FROM DSKY

UPLINK
DESIRED ORIENT
(PTC)

238:00

NOTES

SIM EXP STATUS
(*101)
(24011)

UV
IR

UV
IR

UV
LY & MIN
IR

UV OPTICAL AXIS
POINTED AT RA 4:35,
DEC +30° WITH CSM
+X AXIS AT RA 9:48:20,
DEC 28°51'51"

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	237:00 - 238:00	11/TEC	3-351

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

1853 CST

<input checked="" type="checkbox"/> {11101}	LIMIT CYCLE - ON ATT DEADBAND - MIN
	RATE - LOW
	BMAIG (3) - ATT 1/RATE 2
	SCS CONT - SCS
:10	P52 (OPTION 3) (TEI ORIENT)

REPORT: GYRO TORQUING ANGLES

P52 (OPTION 1)
(PTC ORIENT)
GDC ALIGN PTC REFSMMAT ATT.
SC CONT - CMC
BMAIG (3) - RATE 2
CMP DON BIOMED HARNESS

UV
LY & MIN
IR

:20

S T D H

238:30

:40

CMD DSE REWIND

:50

239:00

CMD
DSE RECORD

239:00

:40

:50

239:00

238:00 - 239:00

11/TEC

3-352

NOTES

SIM EXP STATUS
{*1011}
{0401}

SPACECRAFT REAL TIME
DATA IS NOT AVAILABLE
UNTIL 240:00

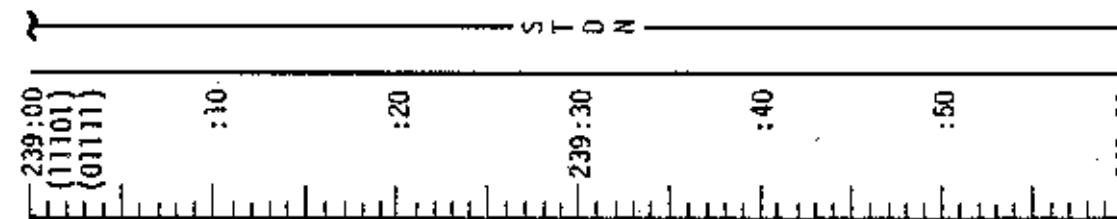
P52 IMU REALIGN	
N71:	—, —, —
N05:	—, —, —
N93:	—, —, —
X	—, —, —
Y	—, —, —
Z	—, —, —
GET	—, —, —

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	238:00 - 239:00	11/TEC	3-352

FLIGHT PLANNING BRANCH

FLIGHT PLAN

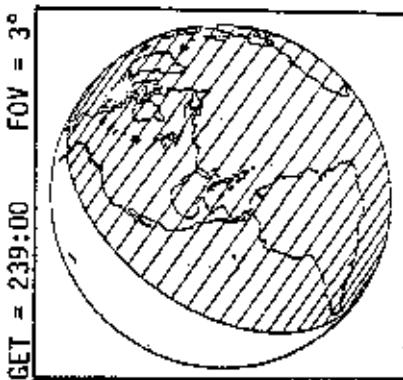
MCC-H 1963 CST



NOTES

SIM EXP STATUS
(*1011)
(0401)
EARTH DISTANCE
~190,239 NM

UV OPTICAL AXIS
POINTED AT EARTH
WITH +X AXIS AT
RA 9:31, DEC -14°



UV EXERCISE PERIOD
EARTH

IR

V49 MNVR TO UV STELLAR TGT ATT (MOON) (240:00)
(071,355,320) HGA: P -46, Y 347

CMD
DSE REWIND

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	239:00 - 240:00	11/TEC	3-353

FLIGHT PLANNING BRANCH

FLIGHT PLAN

2053 CST

MCC-H

CMD
DSE PLAYBACK

E
(11101)
(01111)

:10

UPDATE
FIREANT PLAN

:20

LIOH CANISTER CHANGE
(20 INTO B, STOW 18 IN A4)

S T D N —
MIC - OFF
WAIT 30 SEC

N
MIC - STBY
IMAGE MTN - OFF
MW - RETR
TR - OFF
MC/LA COVER - CLOSE
IR COVER - CLOSE

CSM G&C CHECKLIST

PASSIVE THERMAL CONTROL (GAN) PAGE 6/8-2
AFTER STDN CUE

V49 TO UW/PTC SLEEP ATT
V49 TO UW/PTC SLEEP ATT

D1, B2, A3, C4, B3 AND
D4 WILL BE USED FOR
PTC RATE DAMPING,
B2 & D2 FOR PTC
SPINUP
COMM: HGA REACQ, NARROW P -40, Y 90

UPLINK
CSM S.V. & V66

CMD
DSE REWIND

:50

241:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	240:00 - 241:00	11/TEC	3-354

FLIGHT PLANNING BRANCH

NOTES

SIM EXP STATUS
(*1011)
(04011)

UV OPTICAL AXIS
POINTED AT RA 6:58,
DEC +22° CSM + X
AXIS AT RA 11:20
DEC +4°

UV
MOON
IR

FLIGHT PLAN

MCC-H

241:00

{11101}
 {01111}

:10

:20

241:30

S
T
D
N

:40

:50

242:00

NOTES

SIM EXP STATUS
{*00001}
{01001}

DURING UW/PTC GALACTIC
SCAN THE CSM +X AXIS
WILL BE POINTED
AT RA 10:25, DEC
+07°

UW/PTC
GALACTIC SCAN

EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	241:00 - 242:00	11/TEC	3-355

FLIGHT PLAN

2253 CST

MCC-H

CSM SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE 5/1-29

COMM: HGA

FILM MAGS REQUIRED FOR NEXT DAY

DAC: FF

:20

:40

243:00

S

T

D

N

:20

:40

244:00

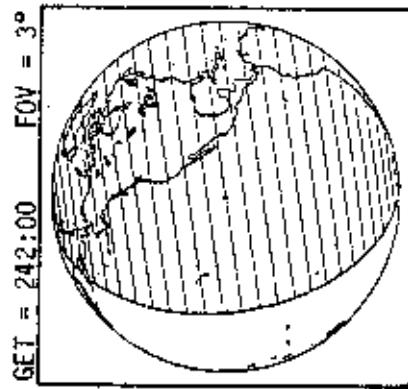
NOTES

SIM EXP STATUS
(*0001)
(01001)

DAP LOAD STATUS
(11101)(01111)

EARTH DISTANCE
~ 185,522 NM

UV/PTC
GALACTIC SCAN



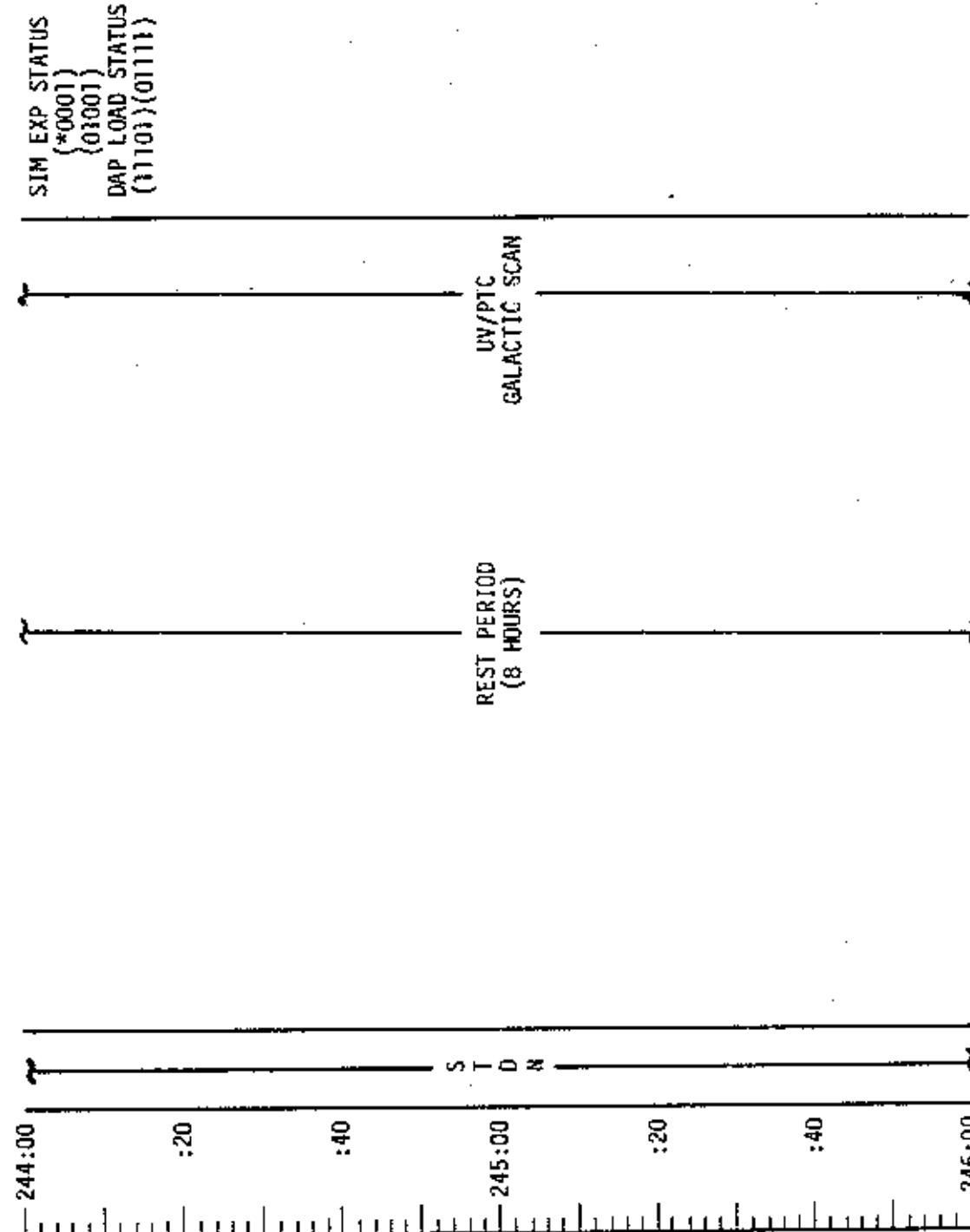
REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	242:00 - 244:00	11/TEC	3-356

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H 0053 CST



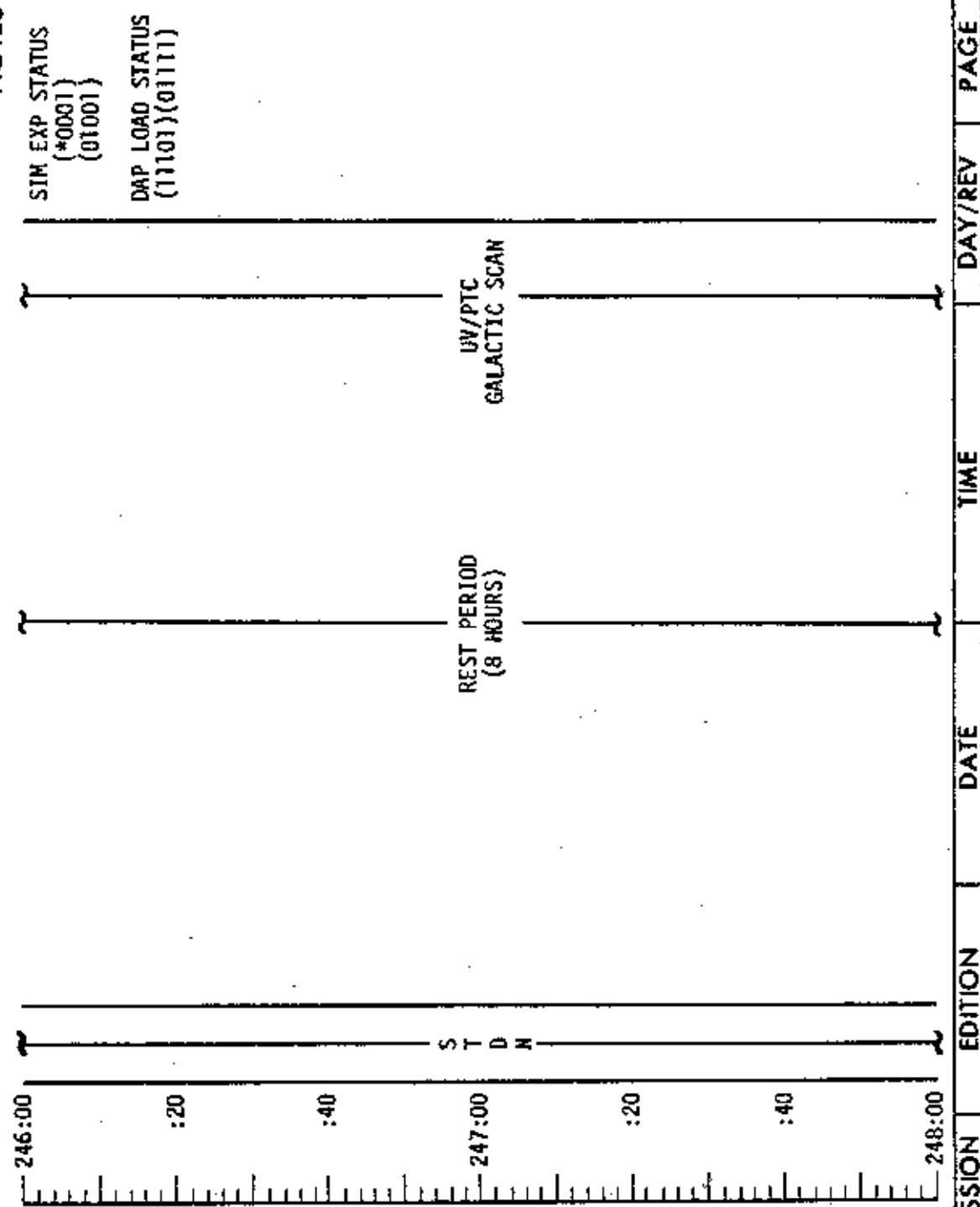
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	244:00 - 246:00	11/TEC	3-357

FLIGHT PLANNING BRANCH

FLIGHT PLAN

0253 CST

MCC-H



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	246:00 - 248:00	11/TEC	3-358

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0453 CST

248:00

:20

40

S T D N

249:00

:20

40

S T D N

250:00

:20

40

S T D N

FLIGHT PLAN

NOTES

SIM EXP STATUS
 {00001}
 {01001}

DAP LOAD STATUS
 (11101)(01111)

REST PERIOD
 (8 HOURS)

UV/PIC
 GALACTIC SCAN

SIM EXP STATUS
 {00001}
 {01001}

DAP LOAD STATUS
 (11101)(01111)

REST PERIOD
 (8 HOURS)

UV/PIC
 GALACTIC SCAN

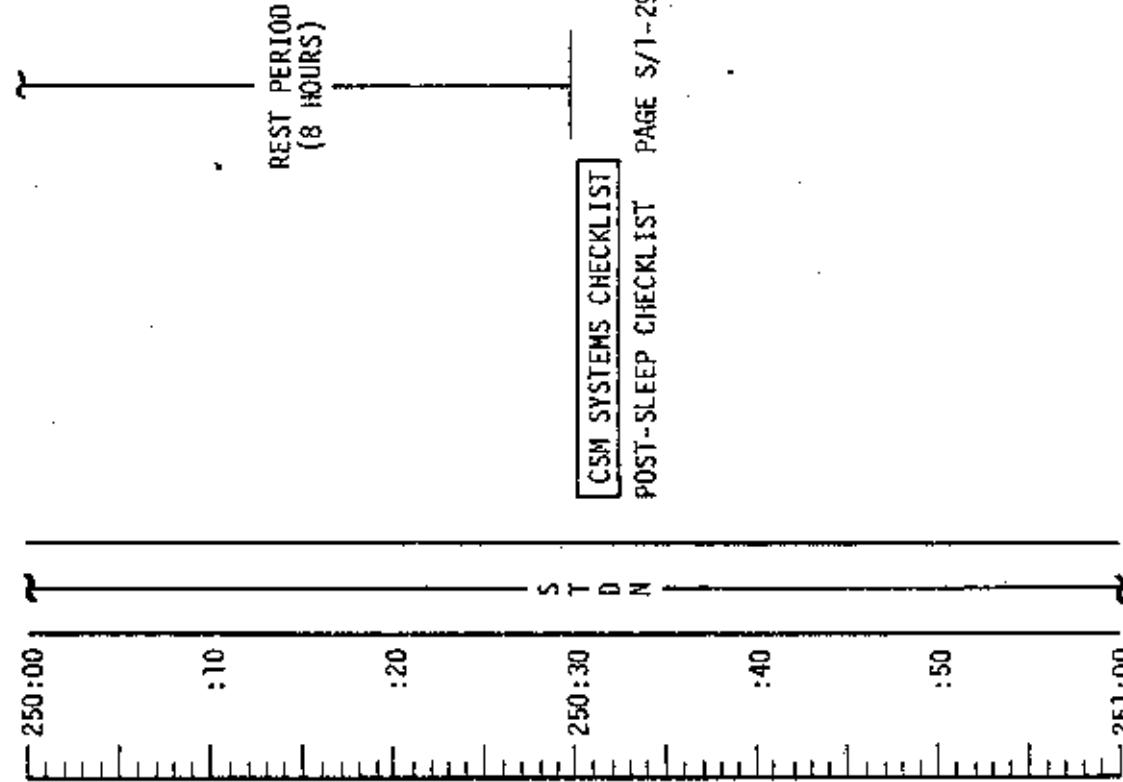
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	248:00 - 250:00	11/TEC	3-359

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0653 CST



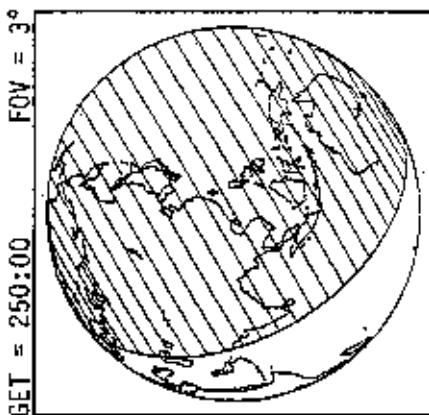
NOTES

SIM EXP STATUS
(*00001)
(01001)

DAP LOAD STATUS
(11101)(01111)

EARTH DISTANCE
~ 172,669 NM

UV/PTC
GALACTIC SCAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	250:00 - 251:00	11-12/TEC	3-360

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H 0753 CST

E
F
(11101)
(01111)

:10

:20

251:30

:40

:50

252:00

EAT PERIOD

UV/PIC
GALACTIC SCAN

NOTES

SIM EXP STATUS
(*0001)
{01001}

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	251:00 - 252:00	12/TEC	3-361

FLIGHT PLANNING BRANCH

FLIGHT PLAN

APOLLO 17

FINAL (12/6)

10/23/72

THIS PAGE INTENTIONALLY BLANK

3-363

FLIGHT PLAN

MCC-5
BURN TABLE

MANEUVER	SPS LIMITS	P OR Y RATES	ATT DEVIATION	MANUAL START ACTION	OVERBURN SHUTDOWN CRITERIA	RCS TRIM GUIDELINES
CORRIDOR CONTROL	LOOSE	10°/SEC COMPLETE	$\pm 10^\circ$ COMPLETE	DELAY NO RESTART	BT + 1 SEC AND $\Delta V_c = 0$	TRIM X AXIS ONLY TO 0.2 FPS
IP CONTROL	TIGHT	10°/SEC TERMINATE	$\pm 10^\circ$ TERMINATE	DELAY NO RESTART	BT + 1 SEC AND $\Delta V_c = 0$	*TRIM X & Z AXIS TO 0.2 FPS

*TRIM ONLY IF $X \leq 2$ FPS
 IF (+) V_{q_2} ROLL RIGHT 90°
 AND USE (+) Y THRUSTERS.

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	N/A	12/TEC	3-364

FLIGHT PLAN

MCC-H

1053 CST

254:00
{01101}
{01111}

:10

:20

254:30

:40

:50

255:00

S

T

D

N

TV AND DAC PREP
WAG (FF)

NOTES

SIM EXP STATUS
{*0010}
{01011}

IR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	254:00 - 255:00	12/TEC	3-366

FLIGHT PLANNING BRANCH

MCC-H 1153 CST

FLIGHT PLAN

NOTES

SIM EXP STATUS
(*0010)
(0101)

T

IR

E

{1110}
{0111}

:10

:20

255:30 S T D N

:40

:50

256:00

EVA EQUIPMENT PREP

PGA DONNING

MISSION EDITION DATE TIME

APOLLO 17 FINAL {12/6} 10/23/72 255:00 - 256:00

FLIGHT PLANNING BRANCH

DAY/REV

12/TEC

PAGE

3-367

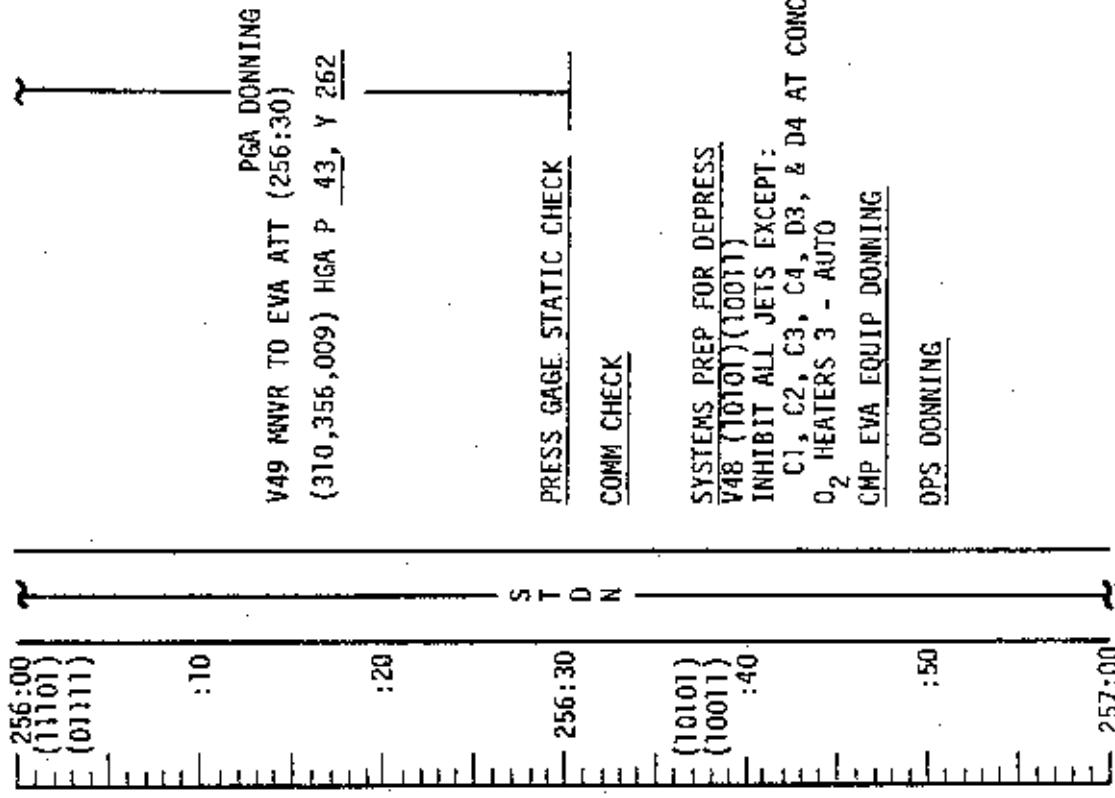
FLIGHT PLAN

MCC-H

1253 CST

NOTES

SIM EXP STATUS
(*0000)
(00000)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOULL 17	FINAL (12/6)	10/23/72	256:00 - 257:00	12/TEC	3-368

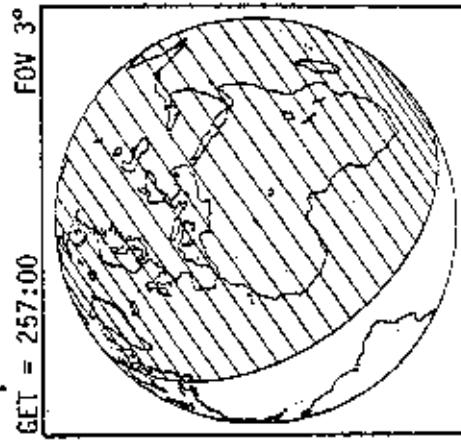
FLIGHT PLANNING BRANCH

MCCC-H 1353 CST

FLIGHT PLAN

NOTES

SIM EXP STATUS
(*0000)
(0000)
EARTH DISTANCE
~ 160,372 NM



CDR/LMP INTEGRITY CHECK

CMP HELMET/GLOVE DOWNING
EVA WARNING TONE CHECK
CMP INTEGRITY CHECK

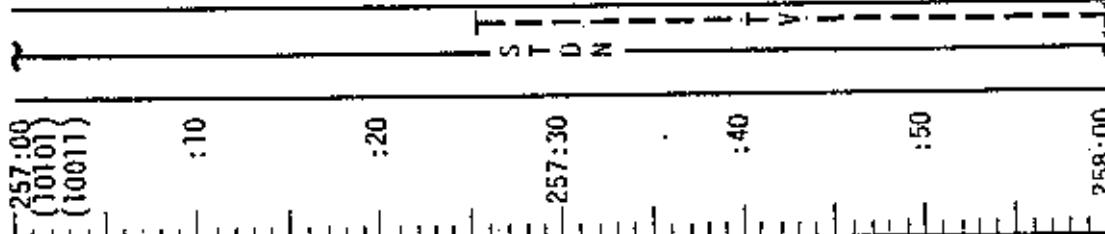
CABIN DEPRESS
GO/NO-GO FOR CABIN DEPRESS
S-BD AUX TV - TV
HATCH OPENING

EVA OPERATIONS
CMP EGRESS

INSTALL TV/DAC, ADJUST

RETRIEVE LUMAR SOUNDER FILM CASSETTE

RETRIEVE PAN CAMERA CASSETTE



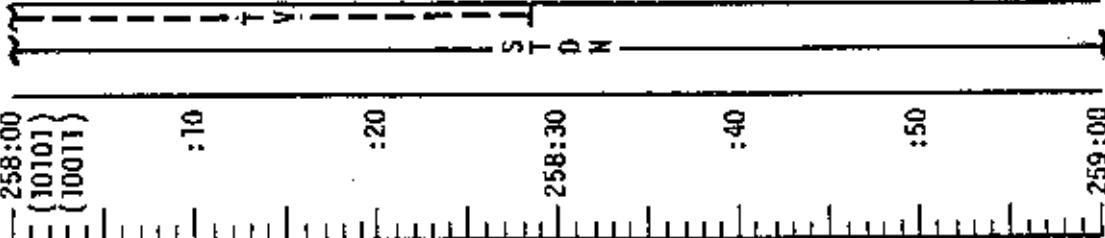
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	257:00 - 258:00	12/TEC	3-369

FLIGHT PLANNING BRANCH

FLIGHT PLAN

1453 CST

MCC-H



NOTES

SIM EXP STATUS
{*00000}
{00000}

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	258:00 - 259:00	12/TEC	3-370

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

259:00

{10101}
{10011}

:10

{11101}
{01111}

:20

V48 (11101)(01111)

SIM EXP PREP

AUTO RCS SELECT - OFF

EXCEPT: D1, B2, A3, C4, B3, D4

259:30

S
T
D
N

PCW BIT RATE - HIGH

S-BD AUX TV - SCI

DATA SYS - ON

LOGIC PWR (2) - OPLY/RETR

cb INST SCI EQUIP SEB (2) - CLOSE

IR - ON

UV - ON

IR COVER - OPEN

UV COVER - OPEN

:40

MANUALLY ROLL LEFT 40° TO R 270°

V49 MNVR TO UW STELLAR TGT ATT (COMA CLUSTER) (260:00)

(206,161,301) OMNI: A

O₂ HEATERS 3 - OFF

CONTINUE POST EVA

CMD
DSE RECORD

NOTES

SIM EXP STATUS
{*0000}
{00000}

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	259:00 - 260:00	12/TEC	3-371

FLIGHT PLANNING BRANCH

FLIGHT PLAN

CST
3

五
三

260;00

10

20

260 :30

四

5

261

APOLLO 13 EDITION DATE 10/23/7

EIGHT PLANNING BRANCH

NOTES

SIM EXP STATUS

SPACECRAFT REAL TIME
PCM IS NOT AVAILABLE
UNTIL 261:20

UV OPTICAL AXIS
POINTED AT RA 12:58,
DEC +26° WITH
CSM +X AXIS AT
RA 16:37:00, DEC
-12° 24'

EAT PERIOD UV COMA CLUSTER

2

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	260:00 - 261:00	12/TEC	3-372

FLIGHT PLAN

MCC-H

1753 CST

CMD
DSE REWIND

261:00
[01101
01111]

CONTINUE POST EVA
MANUALLY ROLL RIGHT 40° TO R 246
V49 MNWR TO UV STELLAR TGT ATT (CAL LUNAR GRAZING 60x14)
(261:20)

:10

:20

261:30 S T N

:40 :50

262:00

CMD
~~DSE~~ PLAYBACK

NOTES

SIM EXP STATUS
{*0011}
{00011}

UV
STELLAR CAL

IR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	261:00 - 262:00	12/TEC	3-373

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCCC-H

1853 CST

262:00
 {11101}
 {01111} | T | V49 MNVR TO UW STELLAR TGT ATT (CAL LUNAR GRAZING 60 X 60) | SIM EXP STATUS
 (262:35)
 (035,228,298) HGA: P-8, Y 336

:10

:20

262:30 S T D N

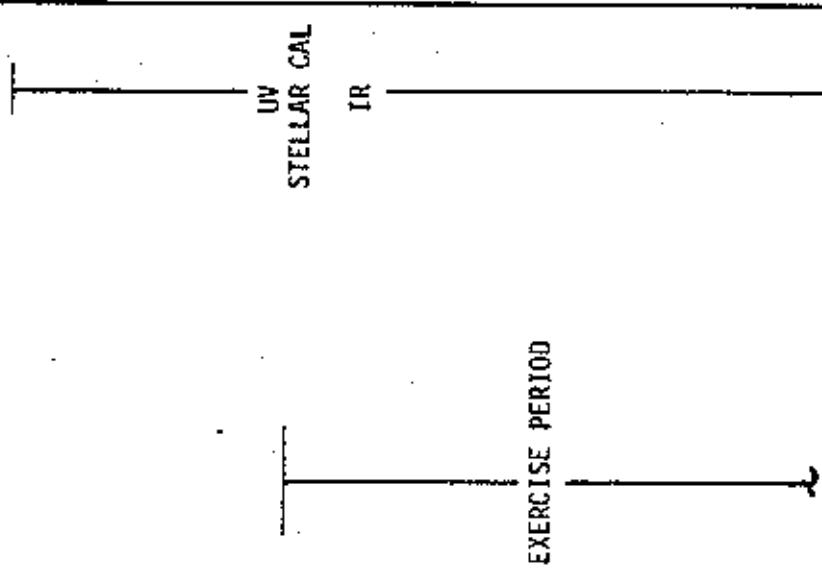
:40

:50

263:00

NOTES

{11101}
 {00011}



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	262:00 - 263:00	12/TEC	3-374

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

E {11101}
E {01111}

:10

:20

S T
LIOH CANISTER CHANGE
{22 INTO B, STOW 20 IN A4)

D N

:40

P52 (OPTION 3)
(PTC ORIENT)

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

265:00

SIM EXP STATUS
{*0001}
{00001}

DURING UV/PTC
GALACTIC SCAN THE
CSM +X AXIS WILL
BE POINTED AT RA
00:55, DEC +08°

UV/PTC
a ERI, a GRU

P52 IMU REALIGN

N71:	—	—
ND5:	—	—
N93:	X	—
	Y	—
	Z	—
GET	—	:

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	264:00 - 265:00	12/TEC	3-376

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

NOTES

265:00
 (1110)
 (0111) EXIT GEN PTC AT ROLL ANGLE 014, HGA: P 02, Y 203
 USING JETS D1,B2,A3,C4,B3,D4 PAGE G/8-3

UPDATE FLIGHT PLAN

PASSIVE THERMAL CONTROL (GMN) PAGE G/8-2

AFTER STDN CUE
 V49 MNVR TO UV/PTC SLEEP ATT

(014,074,015)

P20 OPT 2, X-AXIS

N78 (0,0,0)

N79 (-0.4200, +000.50)

N34 (0,0,0)

COMM: HGA REACQ NARROW

P -40, Y 90

D1,B2,A3,C4,B3
 AND D4 WILL BE USED
 FOR PTC RATE
 DAMPING, B2 & D2
 FOR PTC SPINUP

SIM EXP STATUS
 {*0001}
 {00001}

CSM GAC CHECKLIST

:10

:20

265:30

:40

:50

266:00

S T D N

EAT PERIOD

UV/PTC

GALACTIC SCAN

DURING UV/PTC
 GALACTIC SCAN
 THE CSM +X AXIS
 WILL BE POINTED
 AT RA 20:20, DEC
 +88°

UV/PTC

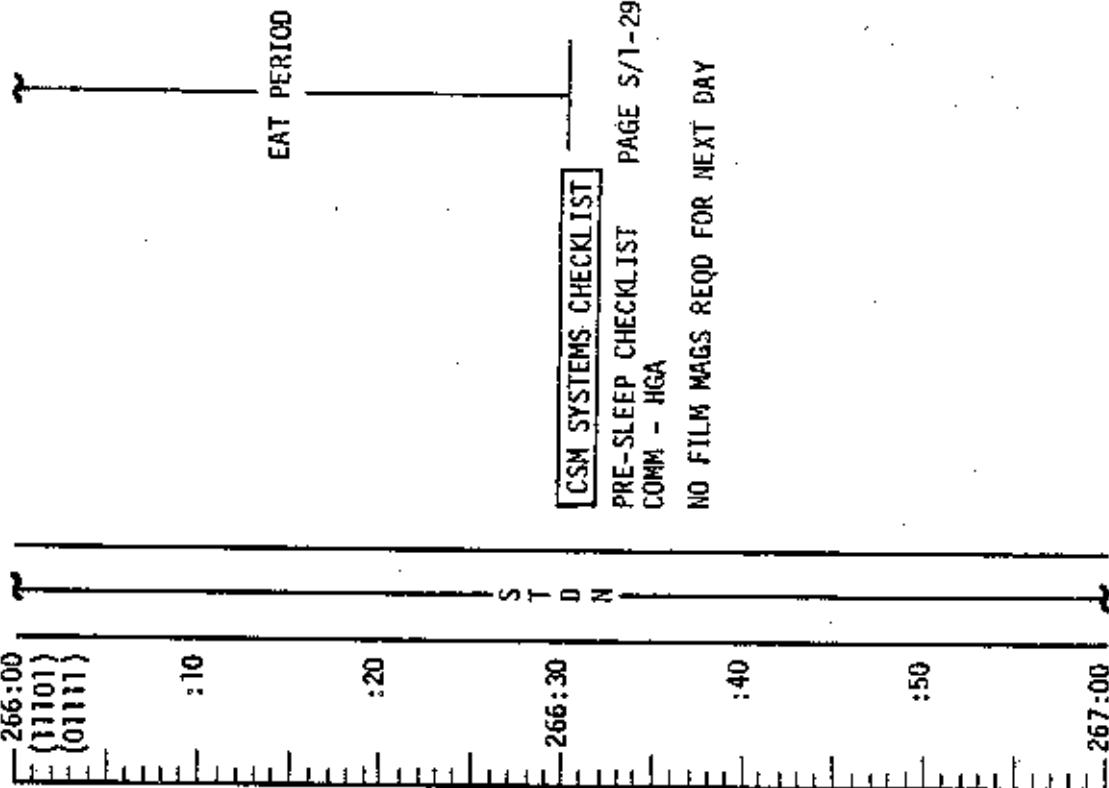
GALACTIC SCAN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	265:00 - 266:00	12/TEC	3-377

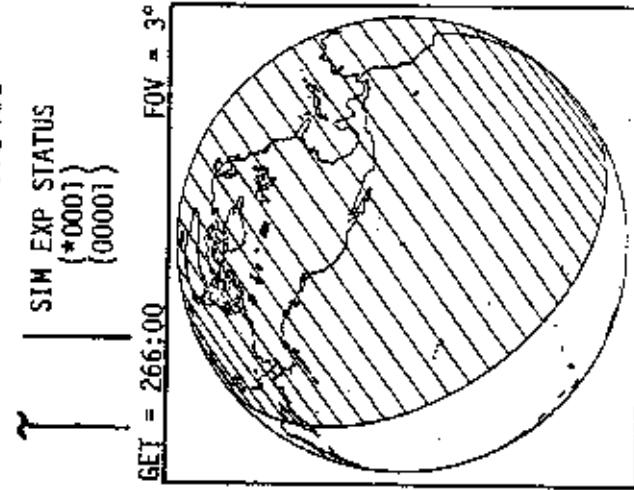
FLIGHT PLAN

2253 CST

MCC-H



NOTES



ONBOARD READOUT	
BAT C	
UV/PTC	PYRO BAT A
GALACTIC SCAN	PYRO BAT B
	RCS A
	B
	C
	D

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	266:00 - 267:00	12/TEC	3-378

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

2353 CST

267:00

268:00

269:00

:20

:40

:20

:40

269:00

267:00

268:00

269:00

:20

:40

:20

269:00

NOTES

SIM EXP STATUS
(*0001)
(00001)

DAP LOAD STATUS
(11101)(01111)

REST PERIOD
(8 HOURS)

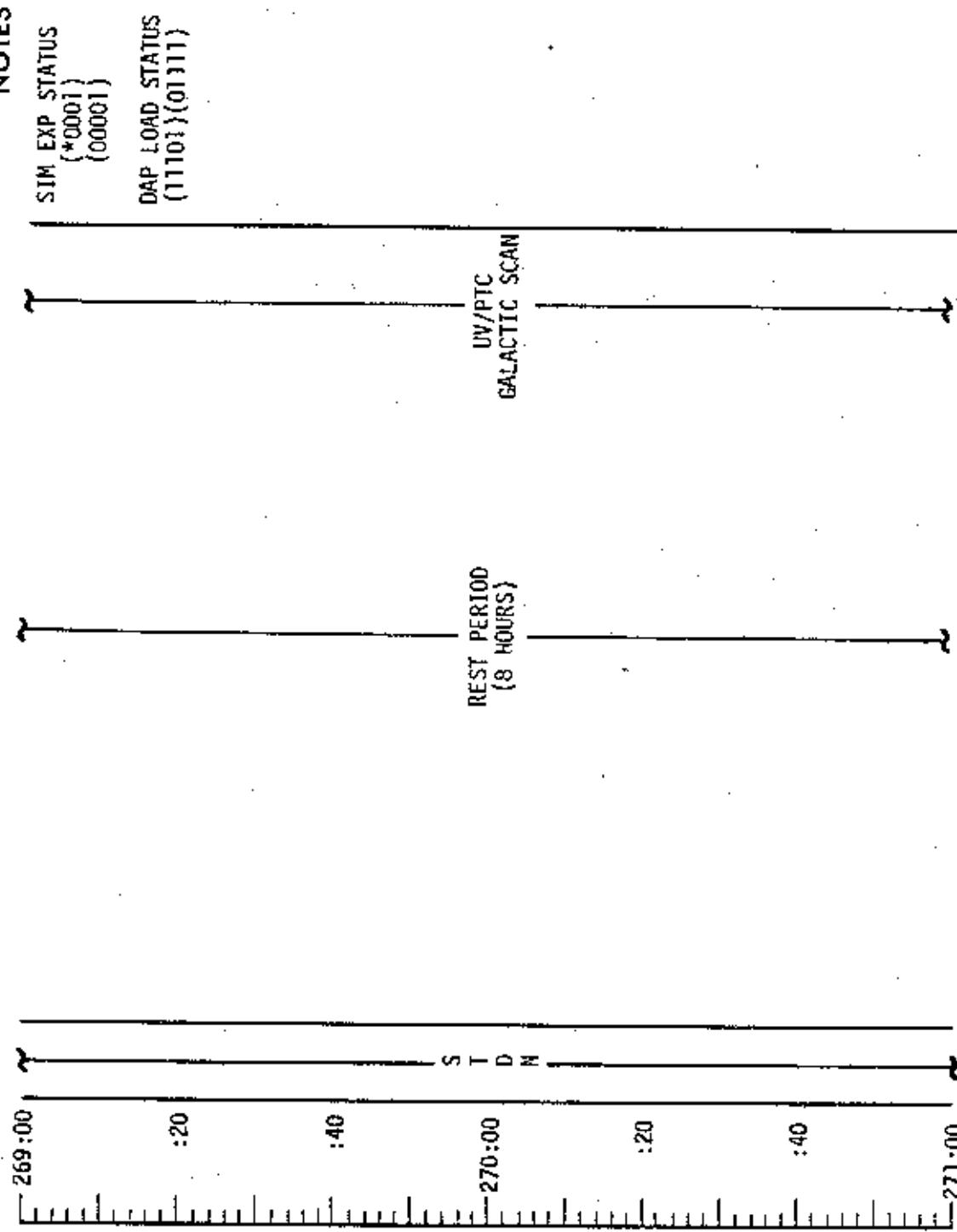
UV/PTC
GALACTIC SCAN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	267:00 - 269:00	12/TEC	3-379

FLIGHT PLAN

MCC-H

0153 CST



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	269:00 - 271:00	12/TEC	3-380

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

0353 CST

271:00

T

:20

:40

272:00

S

T

D

N

:20

:40

273:00

NOTES

SIM EXP STATUS
(*00001)
(00001)

DAP LOAD STATUS
(11101)(01111)

REST PERIOD
(8 HOURS)

UV/PTC
GALACTIC SCAN

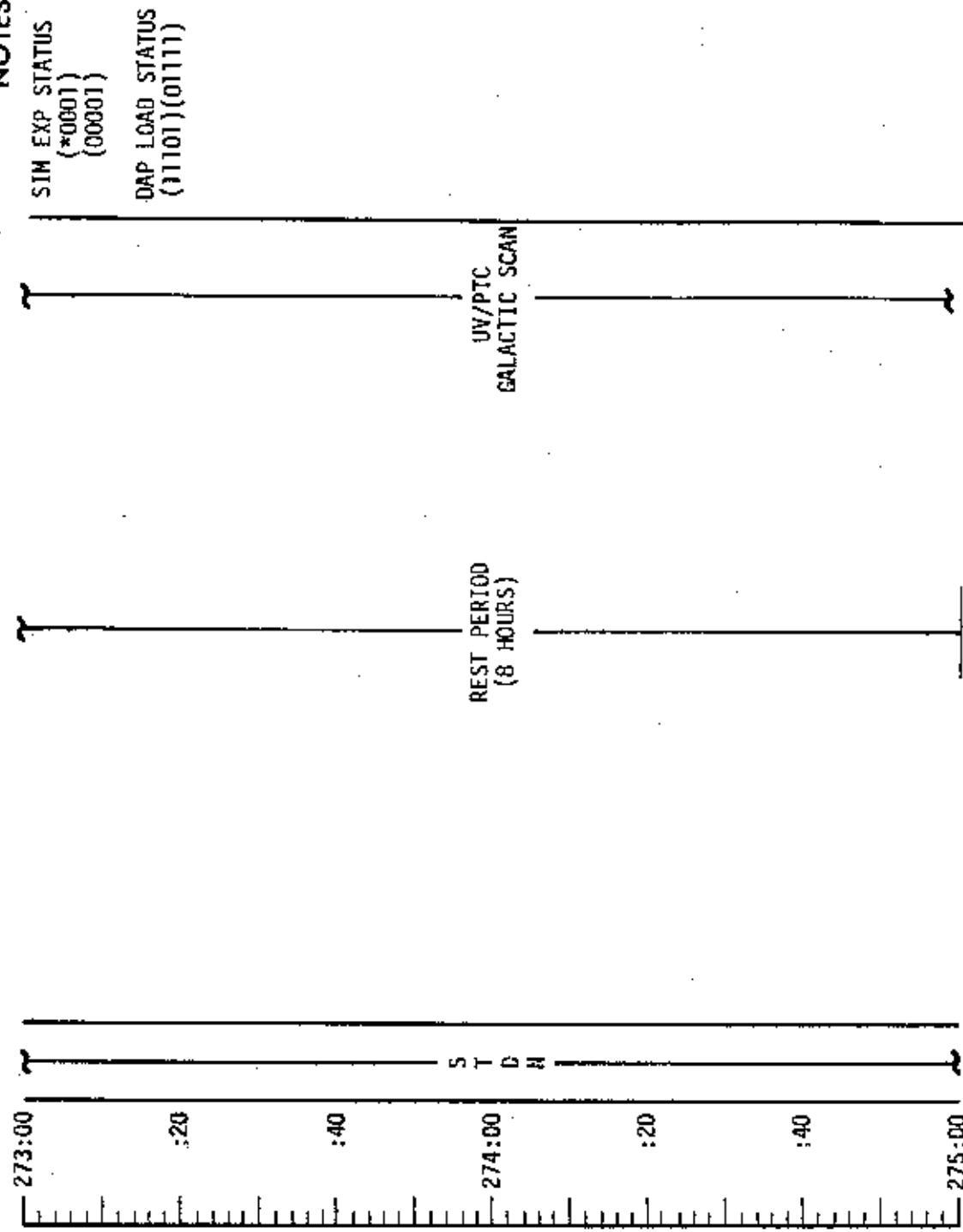
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	271:00 - 273:00	12/TEC	3-381

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0553 CST



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	273:00 - 275:00	12/TEC	3-382

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0753 CST

CSM SYSTEMS CHECKLIST

POST-SLEEP CHECKLIST PAGE S/1-29

:10

275:00 :20

275:30 :30

276:00 :40

276:00 :50

NOTES

SIM EXP STATUS
(*0001)
(00001)

DAP LOAD STATUS
(11101)(01111)

EARTH DISTANCE
~ 121,855 NM

GET = 275:00 FOV = 4°



UV/PTC
GALACTIC SCAN

EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	8/28/72	275:00 - 276:00	13/TEC	3-383

FLIGHT PLANNING BRANCH

FLIGHT PLAN

0853 CST

MCC-H

E
F
(0111)
(1101)

:10

:20

UPDATE
CONSUMMABLES STATUS
FLIGHT PLAN
SIM EXP STATUS
WASTE WATER DUMP
PERCENTAGE

IR - ON
EXIT G&N PTC AT ROLL ANGLE 014 HGA: P -16, Y 247

USING JETS D1,B2,A3,C4,B3,D4 PAGE 6/8-3

H₂ PURGE LINE HEATER - ON

P52 (OPTION 3)
(PTC ORIENT)

CONFIGURE FOR URINE DUMP

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

IR COVER - OPEN (BEFORE DUMP)

H₂ & O₂ FUEL CELL PURGE

SAMPLE BUSS'S (3) - STOW SAMPLES (3)

DUMP URINE FROM BUSS'S (3) - STOW

START NEW URINE COLLECTION PERIOD

WASTE WATER DUMP TO PERCENTAGE SPECIFIED BY STDN

CHARGE BATTERY A

H₂ PURGE LINE HEATER - OFF

277:00

NOTES

SIM EXP STATUS
(*0001)
(00001)

EAT PERIOD

UV/PTC
GALACTIC SCAN

CSM G&C CHECKLIST

IR - ON
EXIT G&N PTC AT ROLL ANGLE 014 HGA: P -16, Y 247

USING JETS D1,B2,A3,C4,B3,D4 PAGE 6/8-3

H₂ PURGE LINE HEATER - ON

P52 (OPTION 3)
(PTC ORIENT)

CONFIGURE FOR URINE DUMP

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

IR COVER - OPEN (BEFORE DUMP)

H₂ & O₂ FUEL CELL PURGE

SAMPLE BUSS'S (3) - STOW SAMPLES (3)

DUMP URINE FROM BUSS'S (3) - STOW

START NEW URINE COLLECTION PERIOD

WASTE WATER DUMP TO PERCENTAGE SPECIFIED BY STDN

CHARGE BATTERY A

H₂ PURGE LINE HEATER - OFF

277:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	276:00 - 277:00	13/TEC	3-384

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES

MCC-H 0953 CST

277:00
[(1101)
 (0111)]

W49 MNVR TO UV STELLAR FG1 ATT (DARK NORTH) (277:15)
(212,172,316) OMNI D

:10

CMD
DSE RECORD

:20

SIM EXP STATUS
(*0011)
(0001)
SPACECRAFT REAL TIME
PCM IS NOT
AVAILABLE UNTIL
278:00

UV OPTICAL AXIS
POINTED AT RA 14:00,
DEC +22° WITH CSM
+X AXIS AT RA 17:40,
DEC -17°30'.

277:30

S T D N
STOWAGE FOR ENTRY

:40

:50

IR

DARK NORTH

CMD STOP
DSE PCM BIT RATE - LOW

278:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	277:00 - 278:00	13/TEC	3-385

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H 1053 CST

278:00
(11101)
(0111)

:10

CMD
PCM BIT RATE - HIGH
DSE RECORD

:20

278:30
CMD
DSE REWIND
PCM BIT RATE - LOW

:40

:50

279:00

V49 MNVR TO THERMAL ATT (278:15)
(265,037,011) OMNI C

NOTES

SIM EXP STATUS
(*0011)
(00011)

SPACECRAFT REAL TIME
PCM IS NOT
AVAILABLE UNTIL
278:30

T
UV
DARK NORTH
IR

CREW EXERCISE PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	278:00 - 279:00	13/TEC	3-386

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1153 CST

279:00
((1101)
((0111))

LMP DON BIOMED HARNESS
CREW EXERCISE PERIOD

:10

V49 MNVR TO UV STELLAR TGT ATT(NORTH ECLIPTIC POLE)(279:25)
(131,138,327) HGA: P -45, Y 50

:20

S

CHECK LMP BIOMED HARNESS
CDR DOFF BIOMED HARNESS
PCM EXP/EVA CHECKLIST

T
D
N

:30

R

:40

:50

UV
NEP

IR

LIGHT
FLASH
OBS

TIME

DAY/REV

PAGE

NOTES

SIM EXP STATUS
(*0011)
(00011)

UV OPTICAL AXIS
POINTED AT RA 19:00,
DEC +78° WITH CSM
+X AXIS AT RA 17:55,
DEC +11°

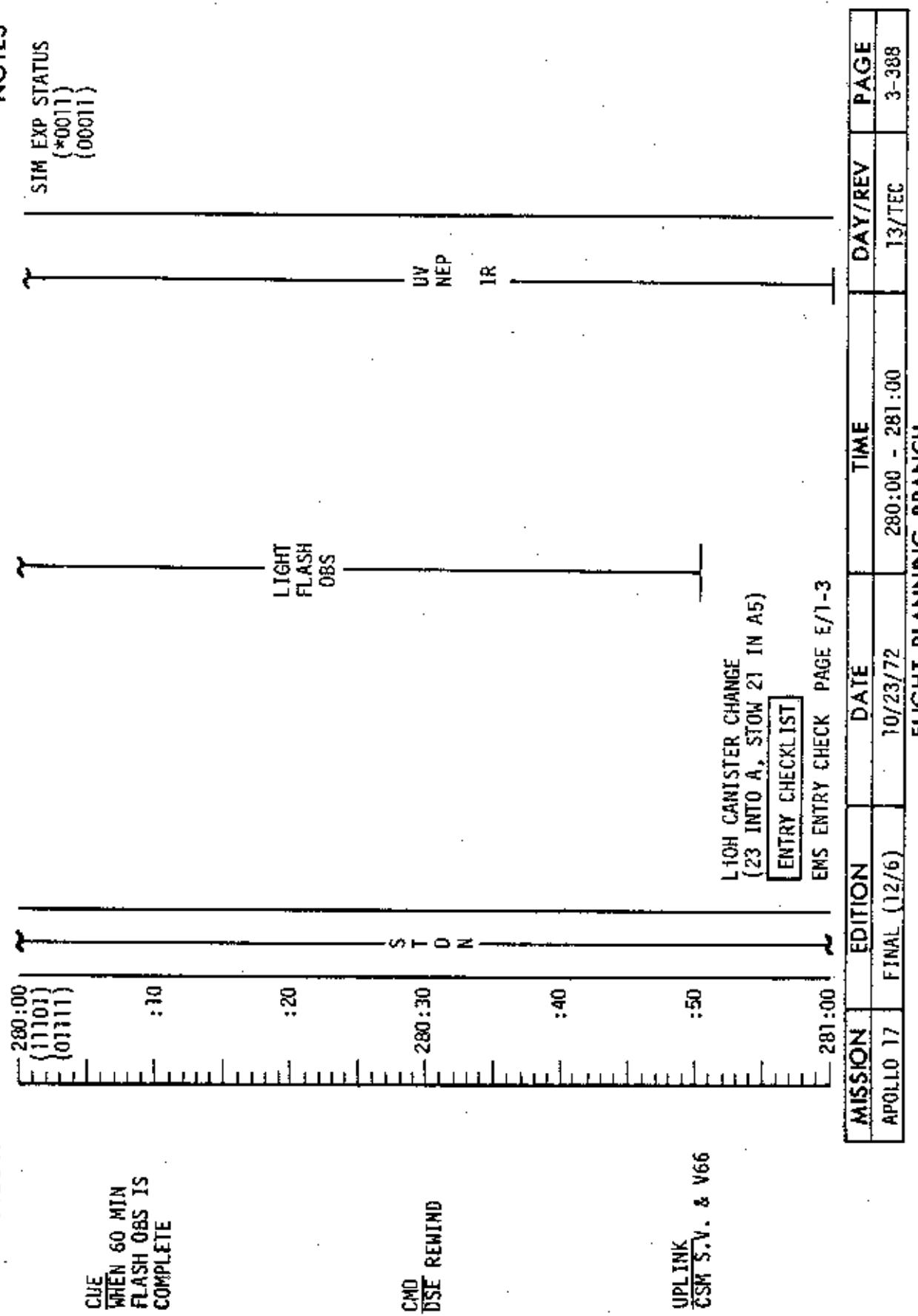
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	279:00 - 280:00	13/TEC	3-387

FLIGHT PLANNING BRANCH

FLIGHT PLAN

1253 CST

MCC-H



FLIGHT PLAN

MCC-H 1353 CST

UPDATE ENTRY PAD
FLIGHT PLAN

:10 :20 :40 :50
CMD DSE RECORD

281:00
[1110]
(0111)
MANUALLY ROLL LEFT 40° TO R 091°
V49 MNVR TO UV SOLAR ATMOSPHERE CAL ATT (281:15)

(273,026,325) OMNI C
P20 OPT 2
N78 (+090.00)
(+019.74)
N79 (-0.2000)
(+000.50)
N34 {0,0,0}

CMD (HGA AOS)

DSE DUMP

281:30

S

T

D

N

282:00

UV
ATMOSPHERE
CAL

ACQ HGA:
S-BD ANT IND >1/2 SCALE HGA:
REACQ, MARROW

STOP PITCH RATE AT 146°

:40

:50

UV
ATMOSPHERE
CAL

IR

NOTES

SIM EXP STATUS
(*0911)
(00011)
IF MCC-6 IS REQUIRED:
UPLINK TGT LOAD
UPDATE MNVR PAD

IF MCC-6 IS REQUIRED:
PERFORM AT 282:18

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	281:00 - 282:00	13/TEC	3-389

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1453 CST

282:00
 (0110)
 (0111)

:10

ON STDN CUE

CMD
DSE RECORD

EI -22 HRS

:20

V49 MNVR TO UV STELLAR TGT ATT 'VIRGO CLUSTER'(282:25)

(253,018,017) OMNI D

282:30

S
T
D
N

:40

:50

283:00

NOTES

SIM EXP STATUS
(*0011)
{00011}

SPACECRAFT REAL TIME
PCM IS NOT AVAILABLE
UNTIL 283:15

UV OPTICAL AXIS
POINTED AT RA 12:30,
DEC +12°

UV
VIRGO CLUSTER

IR

EAT PERIOD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	282:00 - 283:00	13/TEC	3-390

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MANUALLY ROLL RIGHT 40° TO R293°.
W40 MNVR TO UW STELLAR TGT ATT (DARK SOUTH) (283:37)
{056,186,354} HGA: P -44, Y 283
PREPARE FOR TV PRESS CONFERENCE
TV (GDS) 284:07-284:37 CM/TV AVG (F5.6 MONITOR)

CMD
PCM
POSE
PLAYBACK

UV DARK SOUTH IR

CHARGE BATTERY C

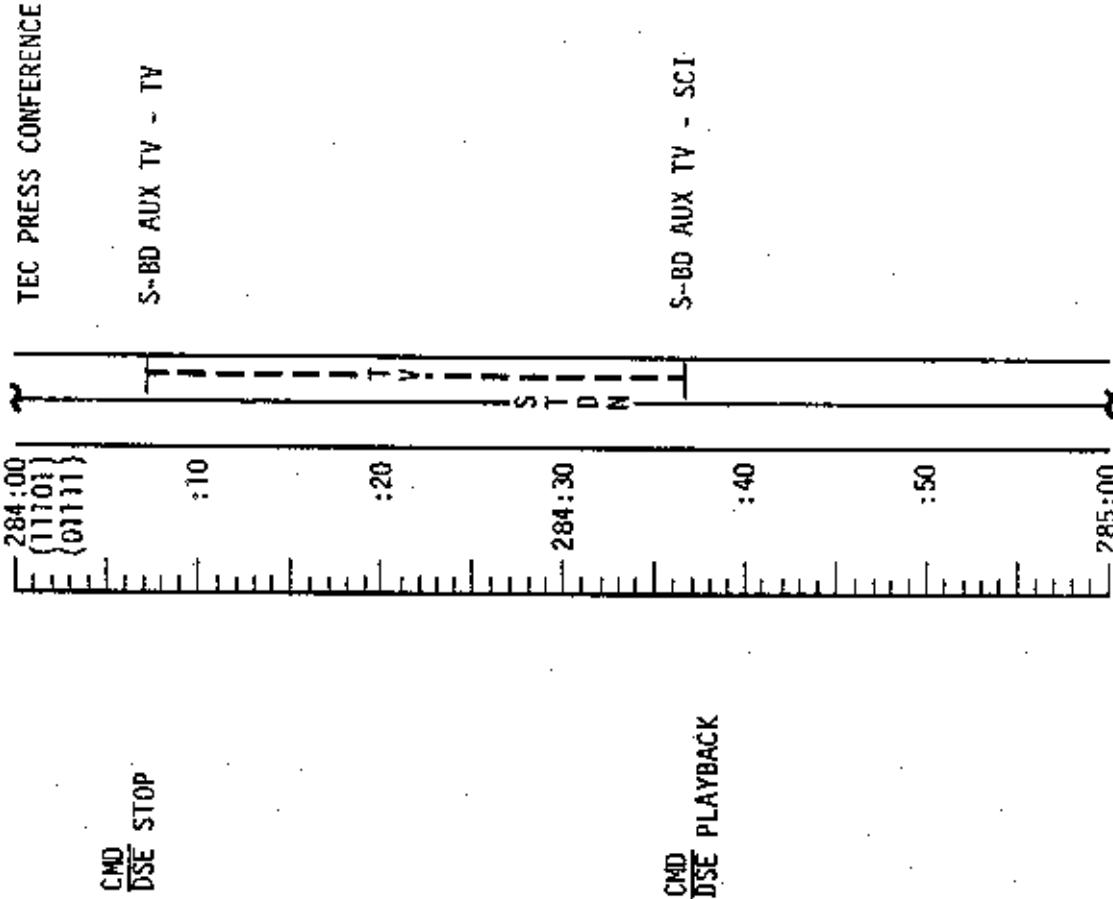
NOTES
SIM EXP STATUS
{*0011}
00011

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	283 :00 - 284 :00	13 / TEC	3-391

FLIGHT PLAN

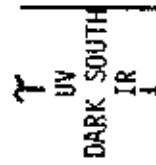
MCC-H

1653 CST

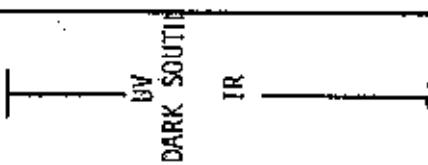


NOTES

SIM EXP STATUS
(*0011)
(00011)



UV OPTICAL AXIS
POINTED AT RA 01:05,
DEC -10° WITH CSM
+X AXIS AT RA 20:30
DEC -25°



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	284:00 - 285:00	13/TEC	3-392

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1753 CST

UPDATE
FLIGHT PLAN

CMD
DSE REWIND

285:00
{1101}
(0111)

10
(0111)

CSM G&C CHECKLIST

PASSIVE THERMAL CONTROL (G&N) PAGE G/8-2
EXCEPT: DAMP RATE FOR 5 MIN

V49 MNVR TO UV/PTC ATT

D1, B2, A3, C4, B3 AND
D4 WILL BE USED FOR
PTC RATE DAMPING
B2 & D2 FOR PTC
SPINUP

(N20,035,047)
IR COVER - CLOSE
P20 OPT 2, X-AXIS
N78 (0,0,0)
N79 (-0.4200, +000.50)
N34 (0,0,0)

COMM: HGA REACQ NARROW P -40, Y 90

T
UV
DARK SOUTH
IR

UV/PTC
NEP, PEG

DURING UV/PTC
GALACTIC SCAN THE
CSM + AXIS WILL
BE POINTED AT
RA 04:55, DEC +46°

NOTES

SIM EXP STATUS
(*0011)
{00011}

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	285:00 - 286:00	13/TEC	3-393

FLIGHT PLAN

MCC-H

1853 CST

(11102)
 (01111)

:10

286:00
:20

286:30
:40

CMD
DSE RECORD

(11102)
(01111)

(11102)
(01111)

:50

287:00

CSM GMC CHECKLIST

EXIT G&N PTC AT ROLL ANGLE 131, HGA: P -21, Y 149
USING JETS D1,B2,A3,C4,B3 AND D4 PAGE 6/8-3
AFTER STDIN CUE
V49 MNVR TO UV STELLAR TGT ATT (SPICA) (286:30)
(255,188,321) OMNI 0
IR COVER - OPEN

V48 (11102)(01111)

S T D N

V48 (11102)(01111)

L

287:00

NOTES

SIM EXP STATUS
(*00001)
(00011)}

UV/PTC
NEP, Y PEG

SPACECRAFT REAL TIME
PCM IS NOT
AVAILABLE UNTIL
286:52

UV OPTICAL AXIS
POINTED AT RA
13:24, DEC -11°
WITH CSM +X AXIS
AT RA 18:02, DEC -30°

UV
SPICA

IR

UV
SPICA, NUMA

IR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	286:00 - 287:00	13/TEC	3-394

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1953 CST

E {11102}
(01111)

E-MEMORY DUMP (CUE STDN)

CSM GAC CHECKLIST

PASSIVE THERMAL CONTROL (GAN) PAGE 6/8-2

AFTER STDN CUE
IR COVER - CLOSE
IR - OFF

P20 OPT 2, X-AXIS

N78 (0,0,0)
N79 (-0.4200, +000.50)

N34 (0,0,0)

COMM: HGA REACQ NARROW
P -40, Y 90

S

T

D

N

287:30

:40

:50

288:00

NOTES

SIM EXP STATUS
(*0011)
(00011)

T
UV
IR
SPICA, NUMA

D1, B2, A3, C4, B3 AND
D4 WILL BE USED
FOR PTC RATE
DAMPING, B2 & D2
FOR PTC SPINUP

BURING UV/PTC
GALACTIC SCAN
THE CSM +X
AXIS WILL BE
POINTED AT
RA 17:40, DEC
+05°

UV/PTC
SPICA, NUMA

LQH CANISTER CHANGE
(24 INTO B, STOW 22 IN A5)

CHECK CMP BIOMED
LMP DOFF BIOMED HARNESS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	287:00 - 288:00	13/TEC	3-395

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

288:00

E {11102}
(0111)

UPDATE
FLIGHT PLAN

:10

P52 (OPTION 3)
(PTC ORIENT)
REPORT: GYRO TORQUING ANGLES
GDC ALIGN

CSM G&C CHECKLIST

EXIT G&N PTC AT ROLL ANGLE 146 HGA: P -39, Y 46
USING JETS D1,B2,A3,C4,B3,D4 PAGE 6/8-3
PASSIVE THERMAL CONTROL (GaN) PAGE 6/8-2
AFTER STDN CUE
V49 MNVR TO UV/PTC SLEEP ATT
(146,284,014)
P20 OPT 2, X-AXIS
N78 (0,0,0)
N79 (-0.4200, +000.50)
N34 (0,0,0)
COMM: HGA REACQ NARROW
Y48 (TTT01)(0111)

:20

S

EAT PERIOD

288:30

O

N

:40

EAT PERIOD

:50

EAT PERIOD

289:00

EAT PERIOD

MISSION EDITION DATE TIME DAY/REV PAGE

APOLLO 17 FINAL (12/6) 10/23/72 288:00 - 289:00 13/TEC 3-396

FLIGHT PLANNING BRANCH

NOTES

SIM EXP STATUS
(*0001)
(00001)

UV/PTC
SPICA, NUMA

P52 IMU REALIGN

N71: _____
N05: _____
N93: _____

X
Y
Z
GET

D1,B2,A3,C4,B3 AND
D4 WILL BE USED
DAMPING, B2 & D2
FOR PTC SPINUP

DURING UV/PTC
GALACTIC SCAN THE
CSM +X AXIS WILL
BE POINTED AT
RA 05:45, DEC -47°

UV/PTC
GALACTIC SCAN

FLIGHT PLAN

MCC-C-H

2153 CST

289:00
T
E
(01101)
(01111)

:10

:20

:30

289:30

S T D N

:40

:50

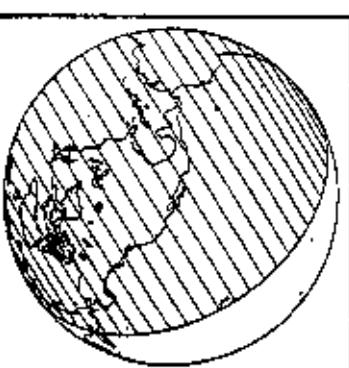
290:00

NOTES

SIM EXP STATUS
{*0001}
{00001}

EARTH DISTANCE
~ 80,921 KM

GET = 289:00



UV/PTC
GALACTIC SCAN

EAT PERIOD

CSM SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE S/1-29
COMM - HGA

FILM MAGS REQUIRED FOR NEXT DAY

DAC: GG

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	289:00 - 290:00	13/TEC	3-397

FLIGHT PLANNING BRANCH

FLIGHT PLAN

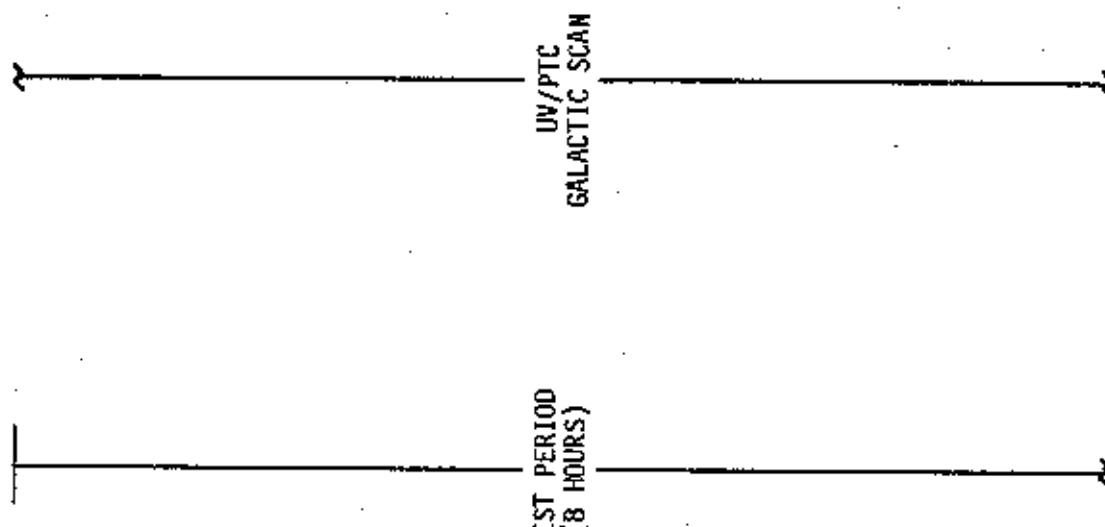
MCCCH

290:00



NOTES

SIM EXP STATUS
(*0001)
(00001)
DAP LOAD STATUS
(11101)(01111)



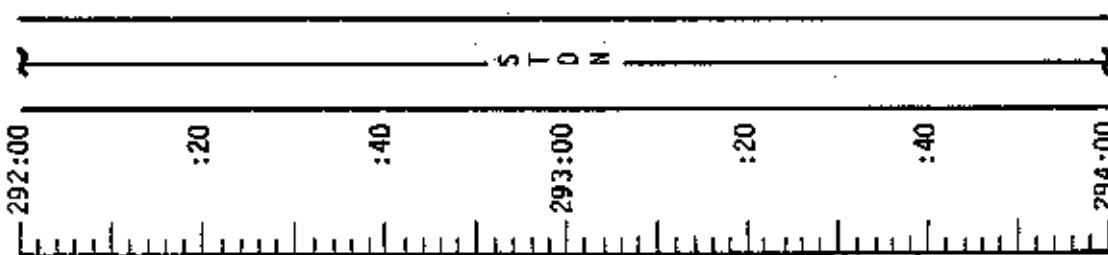
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	290:00 - 292:00	13/TEC	3-398

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0053 CST



NOTES

SIM EXP STATUS
(*0001)
(00001)

DAP LOAD STATUS
(11101)(01111)

UV/PTC
GALACTIC SCAN

REST PERIOD
(8 HOURS)

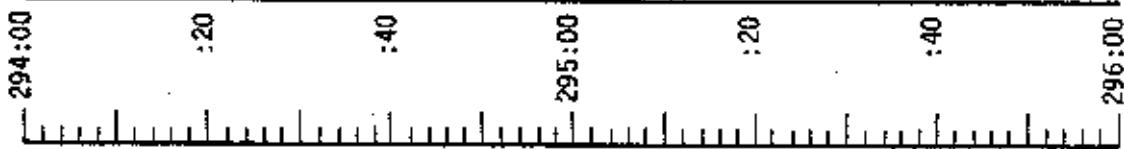
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLO 17	FINAL (12/6)	10/23/72	292:00 - 294:00	13/TEC	3-399

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0253 CST



NOTES

SIM EXP STATUS
(*0001)
(00001)

DAP LOAD STATUS
(11101)(01111)

REST PERIOD
(8 HOURS)

UV/PTC
GALACTIC SCAN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	294:00 - 296:00	13/TEC	3-400

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

NOTES

SIM EXP STATUS
{'0001'
{00001}}
DAP LOAD STATUS
(11101)(01111)

0453 CST
296:00

:20

:40

297:00
S T D N

:20

:40

298:00

REST PERIOD
(8 HOURS)

UV/PTC
GALACTIC SCAN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	296:00 - 298:00	13/TEC	3-401

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

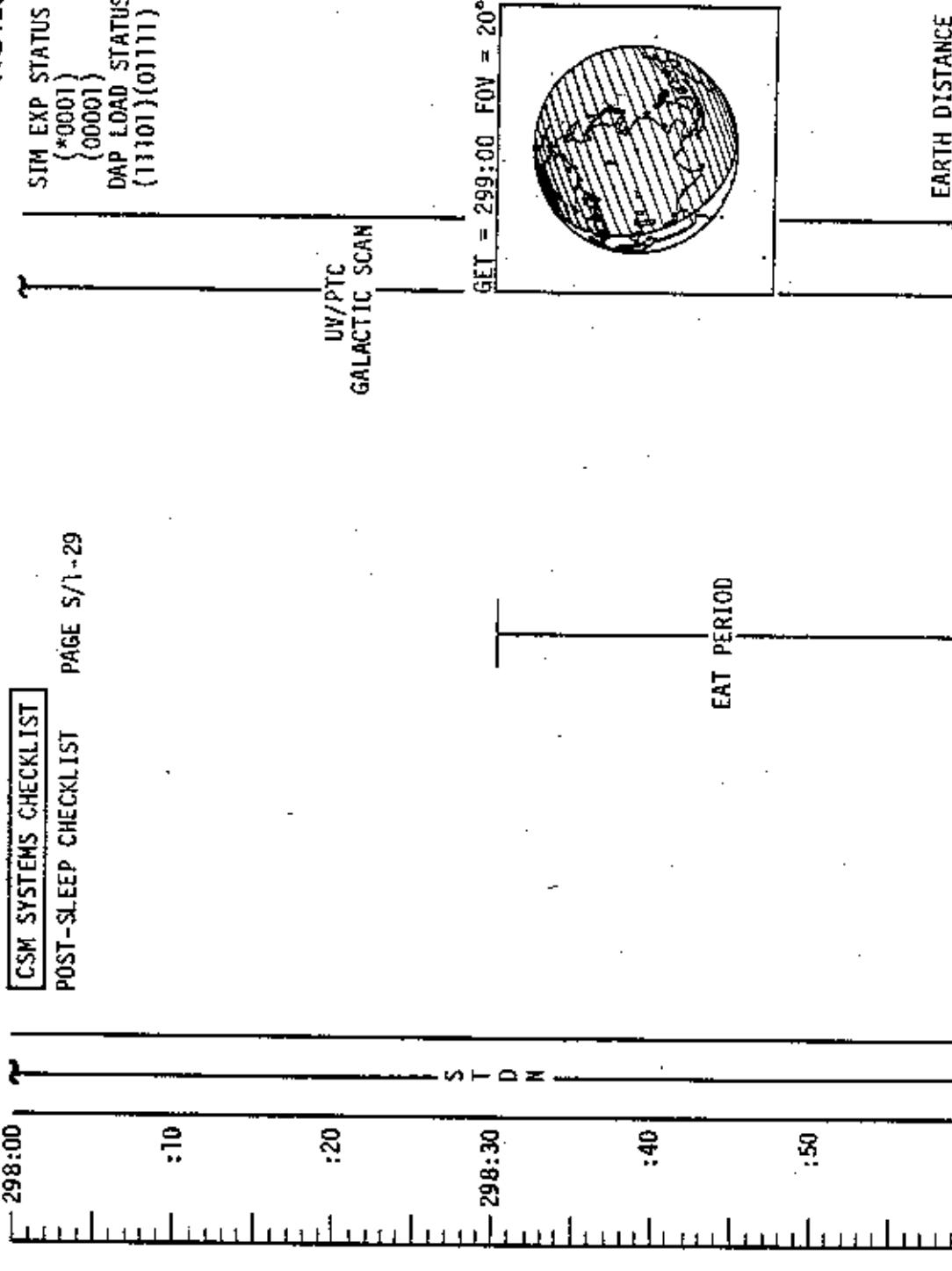
0653 CST

CSM SYSTEMS CHECKLIST

POST-SLEEP CHECKLIST PAGE S/1-29

NOTES

SIM EXP STATUS
(*0001)
(0000)
DAP LOAD STATUS
(11101)(01111)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	298:00 - 299:00	14/TEC	3-402

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES

MCC-H
0753 CST
[1110]
[0111]

:10
:20
299:30
D
S
T
N
H
M
:40
[1110]
[0111]

EAT PERIOD
UV/PTC
GALACTIC SCAN

UPDATE
CONSUMABLE STATUS
FLIGHT PLAN
GO/NO-GO FOR
MCC-7

299:30
R
SC
P52
OPT - 3
(OPT T)
(ENTRY ORIENT)

DESIRED ORIENT
(ENTRY)

REPORT: CM INJECTOR VALVE TEMPS
SYS TEST METER SC, SD, 6A, 6B, 6C, 6D
CSM G&C CHECKLIST
EXIT G&N PTC AT ROLL ANGLE 146, HGA: P 27, Y 93
(COUPLED JETS) PAGE 6/B-3
V48 (11102)(01111)
IR - ON
IR COVER - OPEN
LIMIT CYCLE - ON
ATT DEADBAND - MIN
RATE - LOW
BMAG (3)-ATT 1/RATE 2
SC CONT - SCS
P52 (OPT - 3)
(PTC ORIENT)

REPORT: GYRO TORQUING ANGLES
P52 (OPT T)
(ENTRY ORIENT)

STARS
SA
TA
TA
R 246
P 324
Y 059

P52 IMU REALIGN
N71: _____
N05: _____
N93: X
Y
Z
GET

UV
TR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	299:00 - 300:00	14/TEC	3-403

FLIGHT PLAN

0853 CST

三

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	300:00 - 301:00	14/TEC	3-404

APOLLO 17 FINAL (12/6) 10/23/72

3-405

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FLIGHT PLAN

MCC-7
BURN TABLE

MANEUVER	SPS LIMITS	P OR Y RATES	ATT DEVIATION	MANUAL START ACTION	OVERBURN SHUTDOWN CRITERIA	RCS TRIM GUIDELINES
CORRIDOR CONTROL	LOOSE	10°/SEC COMPLETE	+ 10° COMPLETE	DELAY NO RESTART	BT + 1 SEC AND $\Delta V_c = 0$	TRIM X AXIS ONLY TO 0.2 FPS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)		N/A	14/TEC	3-406

FLIGHT PLAN

MCC-H 0953 CST
E-301:00
E-(11102)
E-01111

*#40 SPS THRUSTING OR
*#41 RCS THRUSTING

10

EI -3 HR

:20

301:

2

50

302:00

NOTES

SIM EXP STATUS
(*0011)

*PERFORM IF MCC-7
IS REQUIRED

TIG: 301:18
BT: NOW ZERO
ΔVT: NOW ZERO
ULLAGE: NOW ZERO

MCC-7

*V66 SET S.V. INTO LM S.V.
*REPORT: BURN STATUS

CWP DOM COUNTERPRESSURE ELEMENT

VERIFY STOWAGE

REMOVE AND STOW CABIN FAN FILTER (U2)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	301:00 - 302:00	14/TEC	3-407

FLIGHT PLAN

MCC-H

1053 CST

F [302:00
{1102
01111]

IR - OFF
UV - OFF
IR COVER - CLOSE
UV COVER - CLOSE
S-BD AUX TV - OFF
DATA SYS - OFF

:10 STOW FLIGHT PLAN

CSM ENTRY CHECKLIST
LOGIC SEQUENCE CHECK PAGE E/1-2

:20

UPDATE
GO/NO-GO FOR
PYRO ARM
SEQUENCE

S T D N
302:30

:40

:50

P52 (OPTION 3) PAGE E/1-2
(ENTRY ORIENT)

303:00

NOTES

SIM EXP STATUS
{*0011}
{00011}

P52 IMU REALIGN	
N71:	-----
N05:	-----
NS3:	-----
X	-----
Y	-----
Z	-----
GET	-----

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	302:00 - 303:00	14/TEC	3-408

FLIGHT PLANNING BRANCH

FLIGHT PLAN

NOTES
 SIM EXP STATUS
 (*0000)
 (0000)

MCC-H	1153 CST {11102 {01111}	REPORT: GYRO TORQUING ANGLES	:10	" GDC ALIGN PAGE E/1-3 V49 MNVR TO HORIZON CHECK ATT BORESIGHT & SXT STAR CHECK
		EMS ENTRY CHECK PAGE E/1-3 PRI & SEC WATER EVAP ACTIVATION PAGE E/1-4		
		CONFIGURE CAMERA EQUIP FOR FIREBALL & CHUTES PHOTOS CM RCS PREHEAT (IF REQUIRED)		
		FINAL STOWAGE PAGE E/1-5		
		UPDATE <u>GO/NO-GO FOR</u> PYRO ARM ENTRY PAD RECOVERY PAD UPLINK <u>CSM S.V. & V66</u>	:40	CONFIGURE FOR VHF A SIMPLEX VOICE CHECK TERMINATE RCS PREHEAT PYRO BATT CHECK SYSTEMS TEST PANEL CONFIGURATION PAGE E/1-6 CONFIGURE PNL 8 P27 & ENTRY PAD UPDATE
			:50	EMS INITIALIZATION PAGE E/2-1
				RSI ALIGNMENT CM RCS CHECK
		EI ~30 MIN		SEPARATION CHECKLIST PAGE E/2-2 P61 ENTRY PREP PAGE E/2-2 P62 CM/SV SEP & PRE-ENTRY MNVR PAGE E/2-3 P63 ENTRY INIT PAGE E/2-4
		304:00		VHF-A SIMPLEX COMM CHECK

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	303:00 - 304:00	14/TEC	3-409

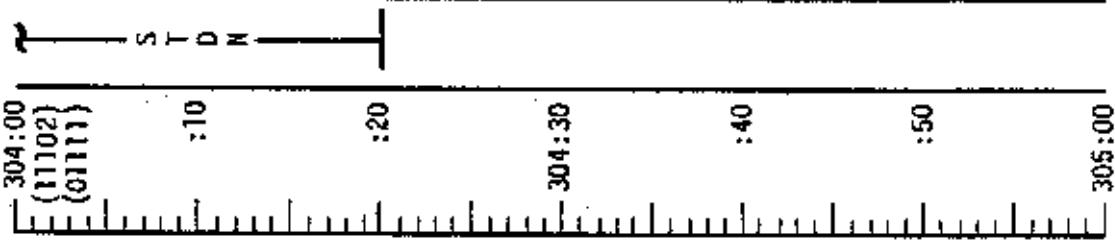
FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1253 CST

CW/SM SEP 304:03



NOTES

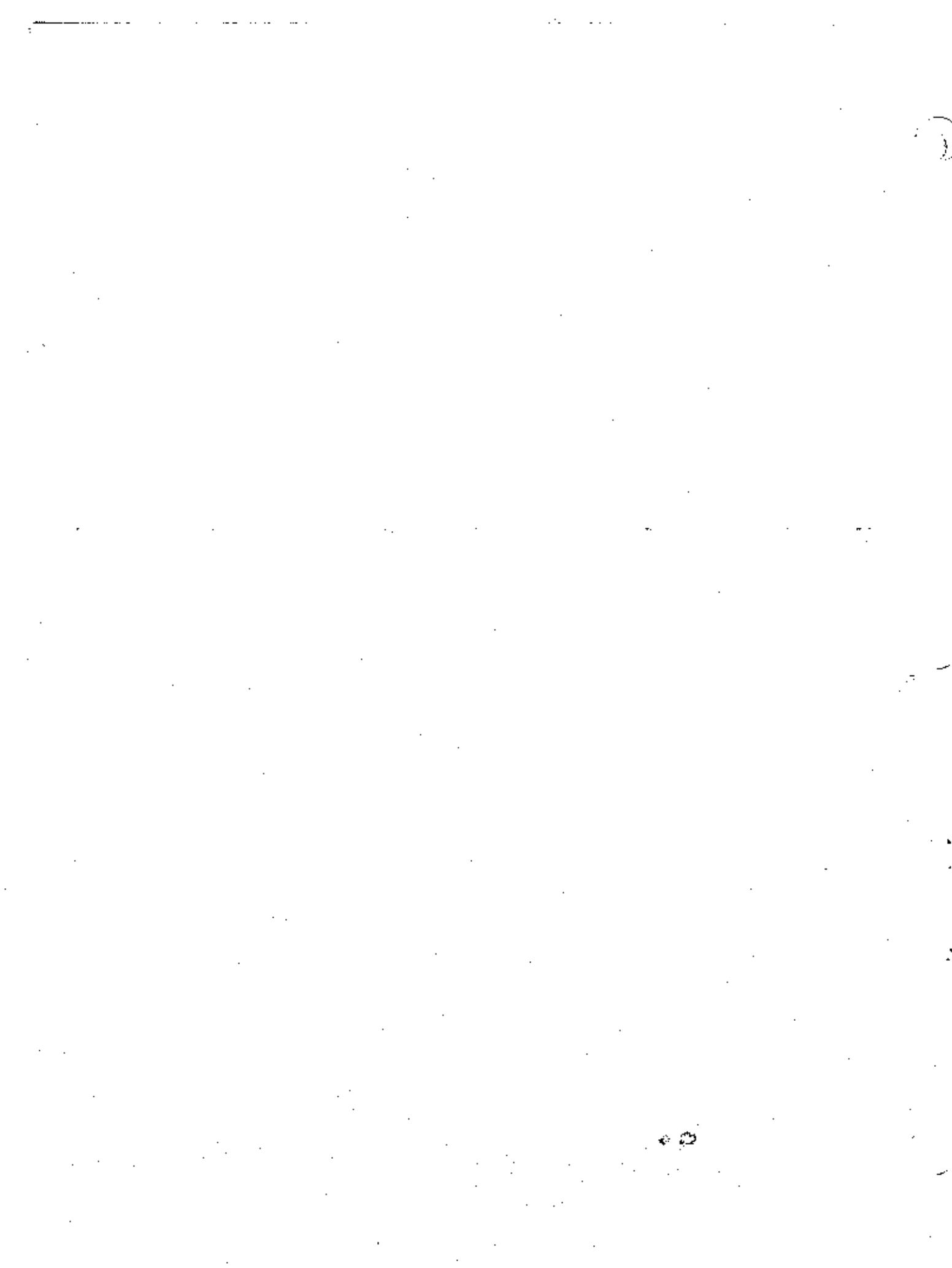
TIME FROM 400K FT	
TRAJECTORY EVENTS	MIN:SEC
400K FT (GET 304:18:00 .5)	00:00
ENTRY S-BAND BLACKOUT	00:17
0.05G	00:29
KA - INITIATE CONSTANT DRAG	00:52
MAX HEATING RATE	01:12
ROOT = -700 FPS	01:20
PEAK G (FIRST)	01:23
SUBCIRCULAR VELOCITY	02:06
P64 TO P67	02:02
EXIT S-BAND BLACKOUT	03:36
PEAK G (SECOND)	05:32
GUIDANCE TERMINATION	06:44
DROGUE DEPLOYMENT	07:41
MAIN DEPLOYMENT	08:23
SPLASHDOWN	13:09

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	304:00 - 305:00	14/TEC	3-410

FLIGHT PLANNING BRANCH

SECTION 4 - CONSUMABLES ANALYSIS

SECTION IV



10/23/72

4-1

Mission profile dependent
8/29/72 Basic

THE SPS ANALYSIS ASSUMPTIONS
FOR THE SPS PROPELLANT ANALYSIS

1. All spacecraft weights and the sequential consumables losses were taken from the Spacecraft Operational Data Book, Amendment 127.
2. The engine I_{sp} assumed for this analysis is 314.5 seconds.
3. The 3σ dispersions are the RSS of the penalties imposed on the SPS margin by 3σ dispersions in propellant loading, mixture ratio, engine I_{sp} , maneuver ΔV , spacecraft weight, and consumable weight losses.
4. The CSM/LM weights for the J-missions have increased to an extent that, for some launch dates, the S-IVB will not have sufficient propellant reserves to compensate for a 3σ engine. Thus, in order to have a combined 3σ confidence level for the S-IVB and SPS, the S-IVB ΔV deficit is covered in the SPS propellant budget. Currently, the nominal mission does not require this allowance.
5. The ground rule for a contingency allowance is to budget for either an LM rescue or for a maneuver to avoid adverse weather conditions at entry, whichever produces the least SPS margin. The ΔV for the LM rescue allowance and the weather avoidance allowance is 600 ft/sec and 300 ft/sec, respectively. For this mission, the weather avoidance allowance produces the least SPS margin.

Mission profile dependent
8/29/72 Basic

APOLLO 17 SPS PROPELLANT SUMMARY

[DECEMBER 7, 1972, G.m.t., LAUNCH DATE; 72° LAUNCH AZIMUTH]

Item	Required, lb	Remaining, lb
Actual loading		40 796
Trapped and unavailable	441	40 355
Outage	60	40 295
Unbalance meter	100	40 195
Available for ΔV		40 195
Required for ΔV		
LOI (2979.9 fps)	26 143	14 052
DOI	1 497	12 555
CIRC (70.1 fps)	276	12 279
LOPC-1 (336.7 fps)	1 238	11 041
TEI (3045.7 fps)	9 446	1 595
Nominal remaining		1 595
Dispersions		
TLMC (23 fps)	263	1 332
-3σ performance	367	965
S-IVB ΔV deficit	0	965
Margin above 3σ		965
Available for contingencies*		965

*965 lb is equivalent to 378 fps end-if-mission reserve. Weather avoidance contingency allowance of 300 fps requires 795 lbs, which results in a margin after contingencies of 172 lbs.

SM RCS budget

Mission profile dependent

8/29/72 Basic

Ground Rules and Assumptions

1. Following transposition and docking, the S-IVB performs the evasive maneuver.
2. Two midcourse corrections (translunar) are executed as SPS burns with one MCC followed by an RCS trim.
3. One midcourse correction (transearth) is executed as an RCS burn of 5 fps.
4. Quad management is to be determined during the mission..
5. Single jet RCS control during SIM exps.
6. Couple jet RCS control during SIM off periods (major burns).
7. All maneuvering at low rate ($0.2^\circ/\text{sec}$) both docked and undocked.
8. Attitude hold deadband during SIM photography and major burns - 0.5° .
9. Attitude hold deadband at other times - 2.5° .
10. Lunar orbit usage Sim photography 1.0 lb/hr
 Rest periods 0.1 lb/hr
 Other 0.5 lb/hr
11. Nominal ullages.
12. Redlines will be defined by the Flight Control Division as an aid in assuring that mission rules are not violated during the mission. They are subject to review during the mission as mission phases are completed and systems capabilities are evaluated. In the event the rescue redline is violated prior to rendezvous, Lunar orbit photography activities can be curtailed to conserve propellant. The lunar orbit redline includes a nominal transearth coast phase (with all navigational sightings) plus a 3 sigma G&N TEI cutoff error MCC. If a rescue is required and the lunar orbit redline is violated prior to the nominal TEI, TEI can be performed early and navigational sighting activity curtailed during the transearth phase. The rescue redline is based on the minimized activity during the transearth phase.

Mission profile dependent
8/29/72 Basic

APOLLO 17 SM RCS ANALYSIS

Item	Required, lb	Remaining, lb
Nominal loading	--	1338.4
Initial M/R outage	15.6	--
Total trapped	26.4	--
Gaging inaccuracy	56.0	--
Deliverable		1240.4
Nominal usage		
Translunar coast	177.5	--
Lunar orbit	395.9	--
Transearth coast	99.4	--
Total	672.8	--
Nominal remaining usable		567.6

10/23/72

4-1

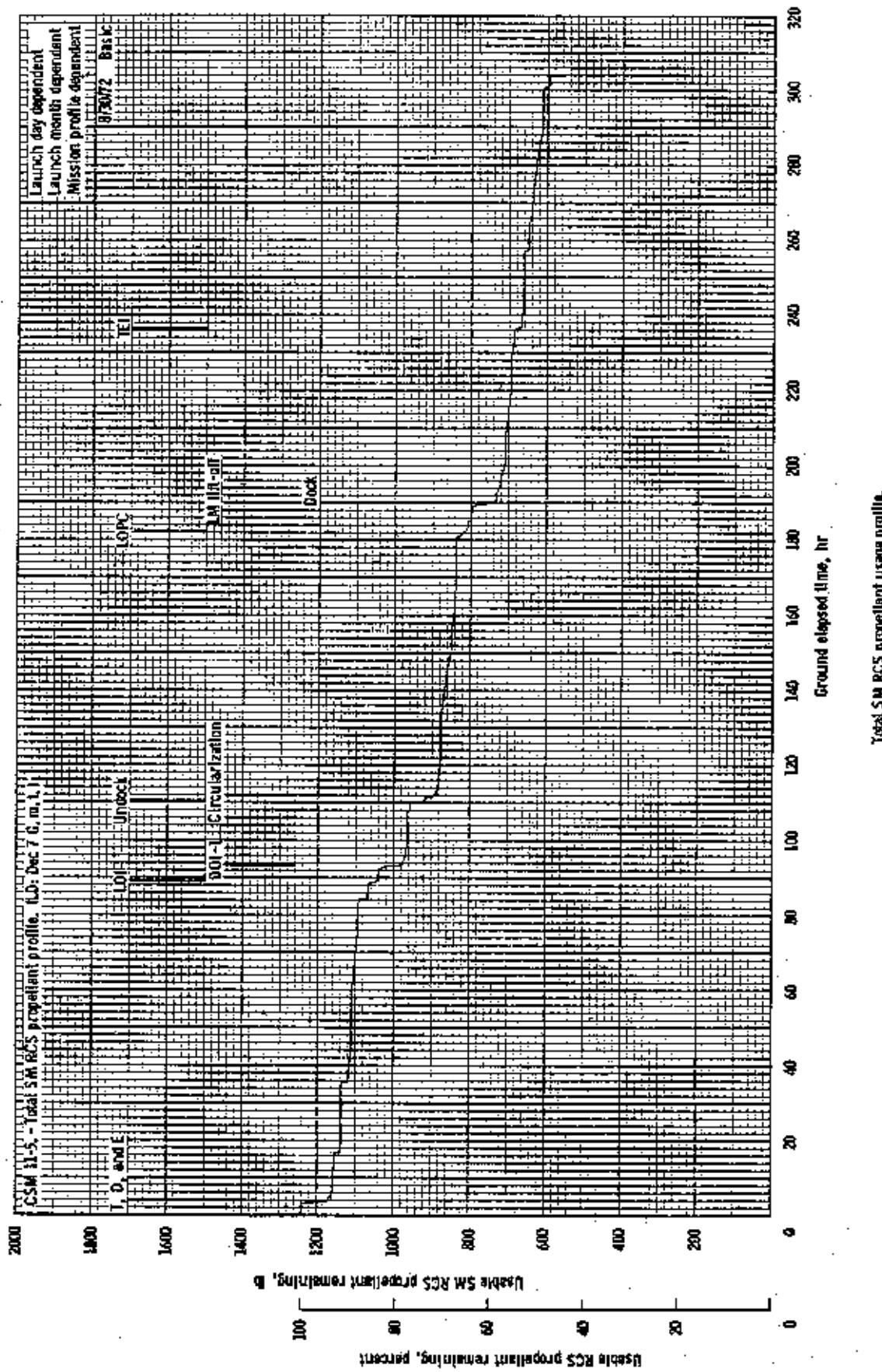
Mission profile dependent
8/29/72 Basic

SM RCS PROPELLANT TRANSLATION COST

Apollo 17

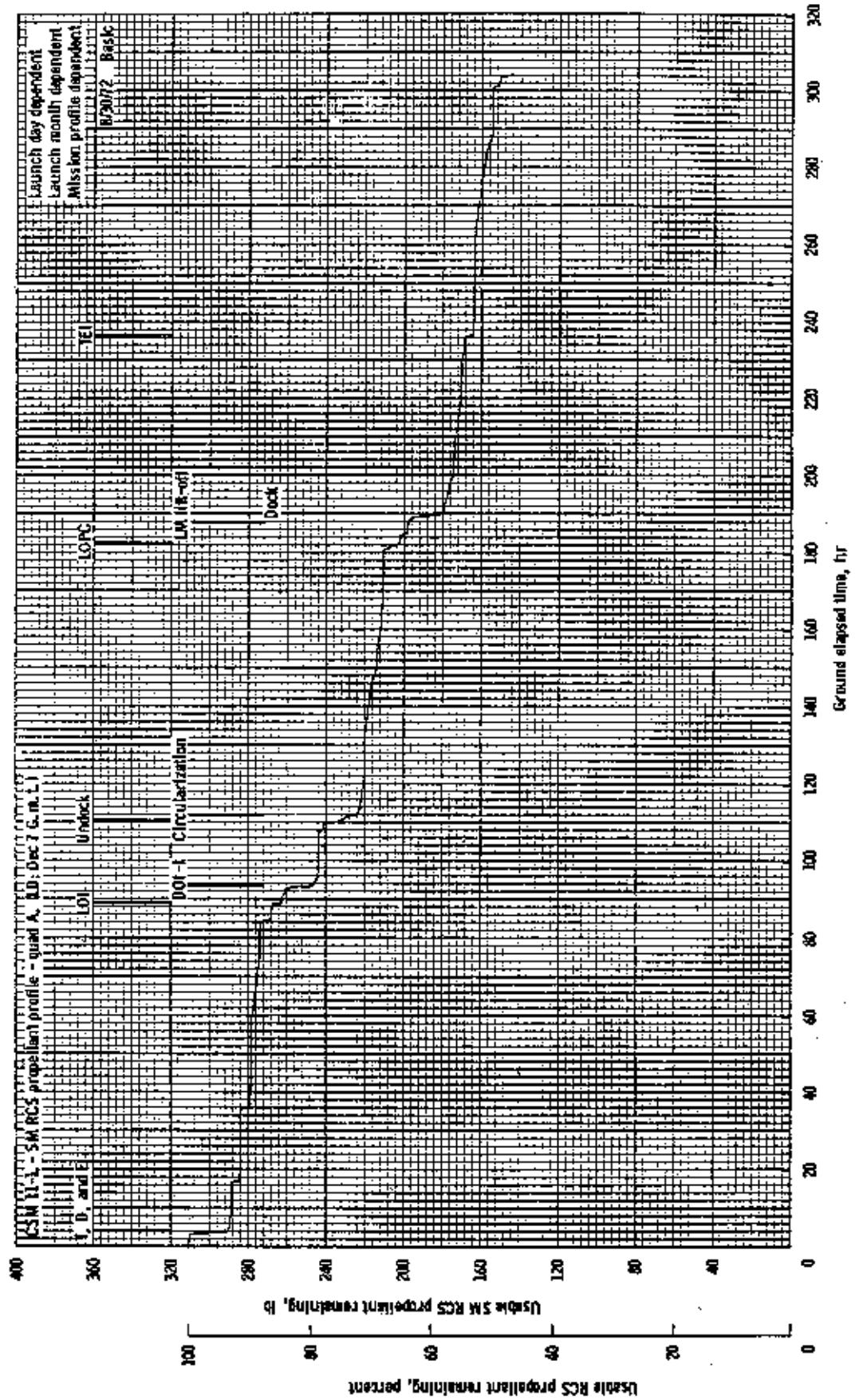
(CSM 114/LM-12)

Mission phase	Typical S/C weight (lb)	+X jet G&C (1b/fps)	+X SCS (1b/fps)	2 +X jet A/C (1b/fps)	2 +X jet SCS (1b/fps)	2 +X jet A/C (1b/fps)	2 +X jet SCS (1b/fps)	+Y or +Z G&C (1b/fps)
Translunar	103 000	11.7	13.3	12.0	13.3	12.4	13.3	--
Lunar orbit docked	75 000	8.6	9.3	8.7	9.3	8.8	9.3	--
Lunar orbit undocked	36 500	4.0	4.7	4.1	4.7	4.3	4.7	5.0
Transearth	26 900	3.1	3.8	3.2	3.8	3.4	3.8	3.5

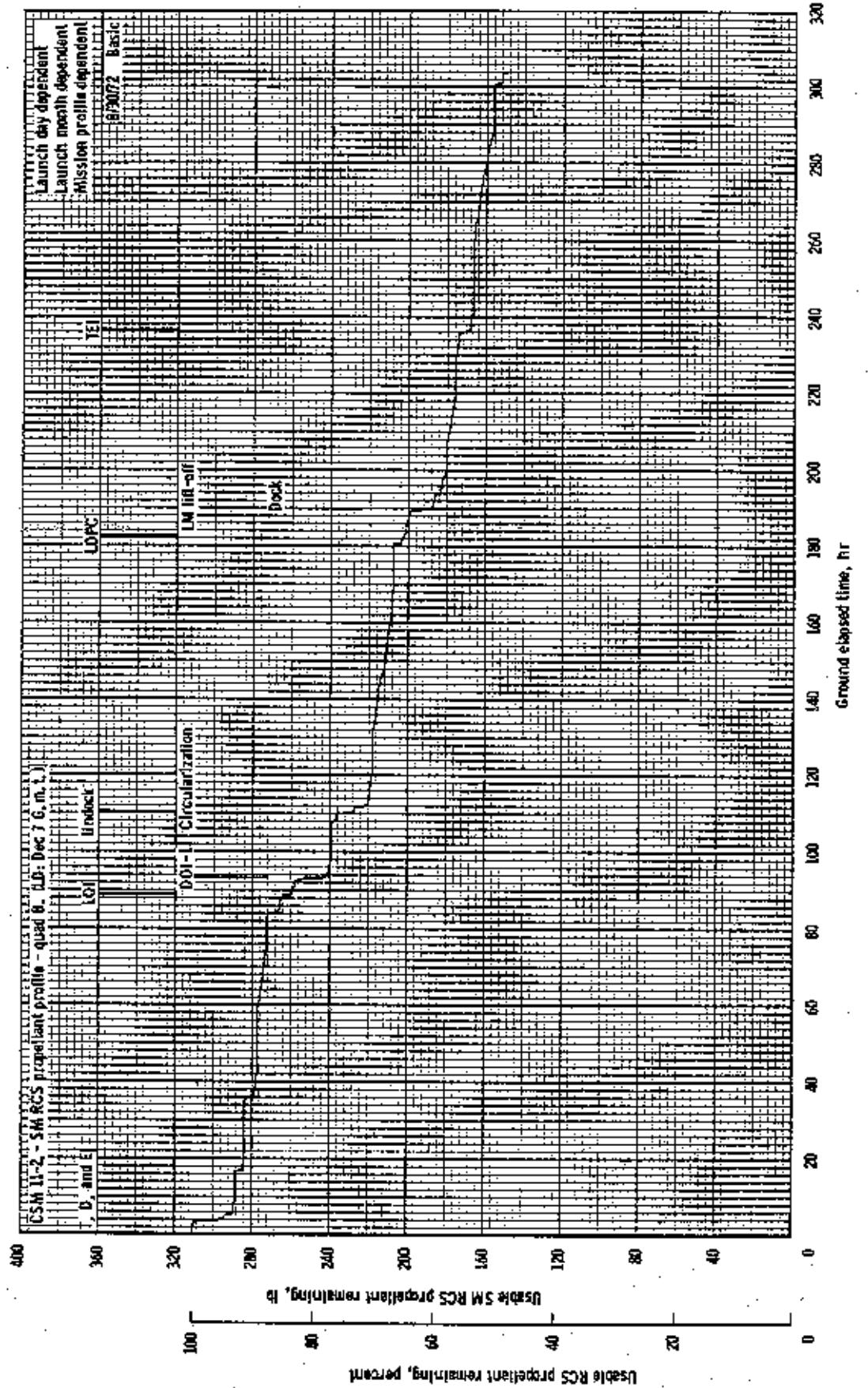


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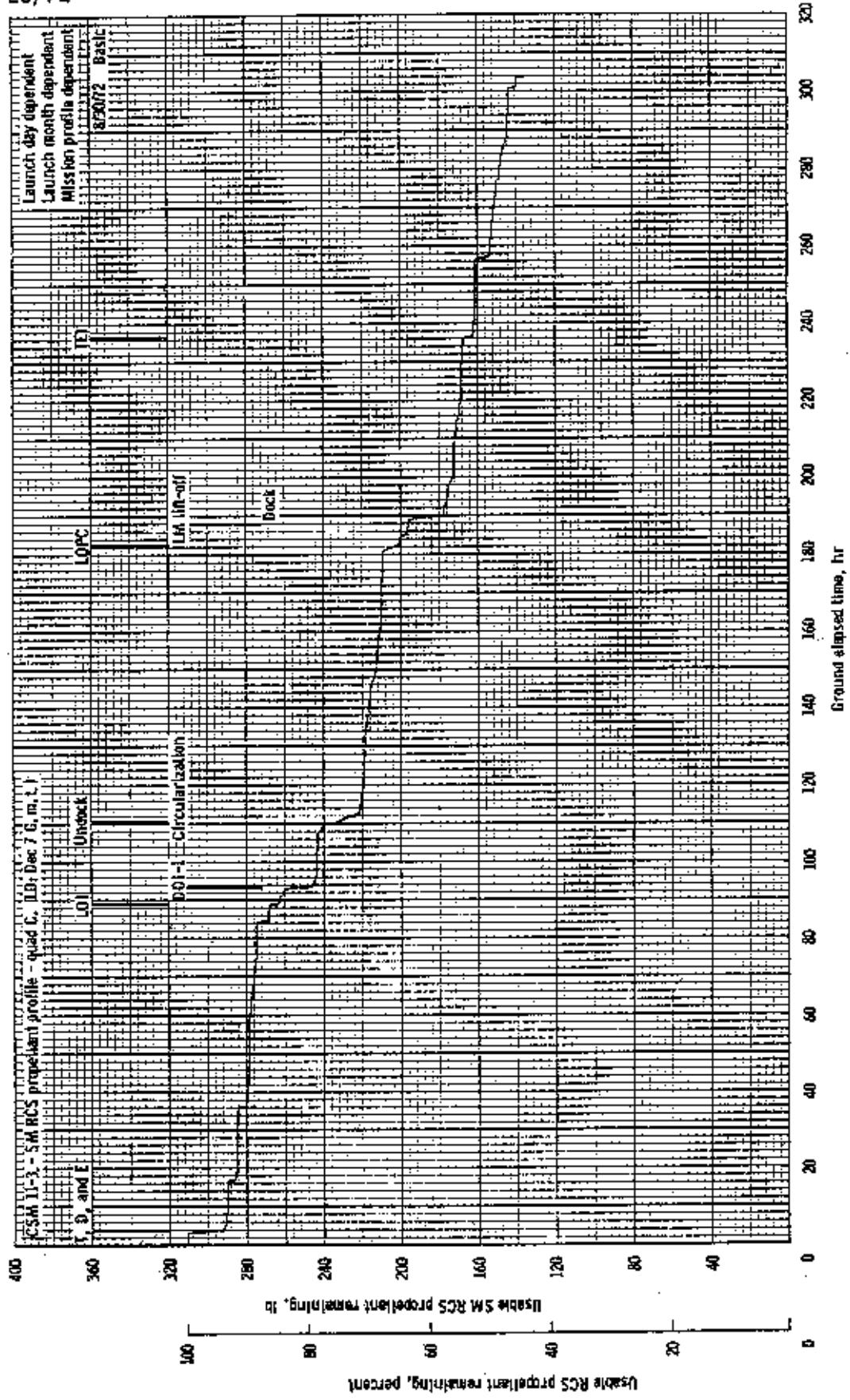
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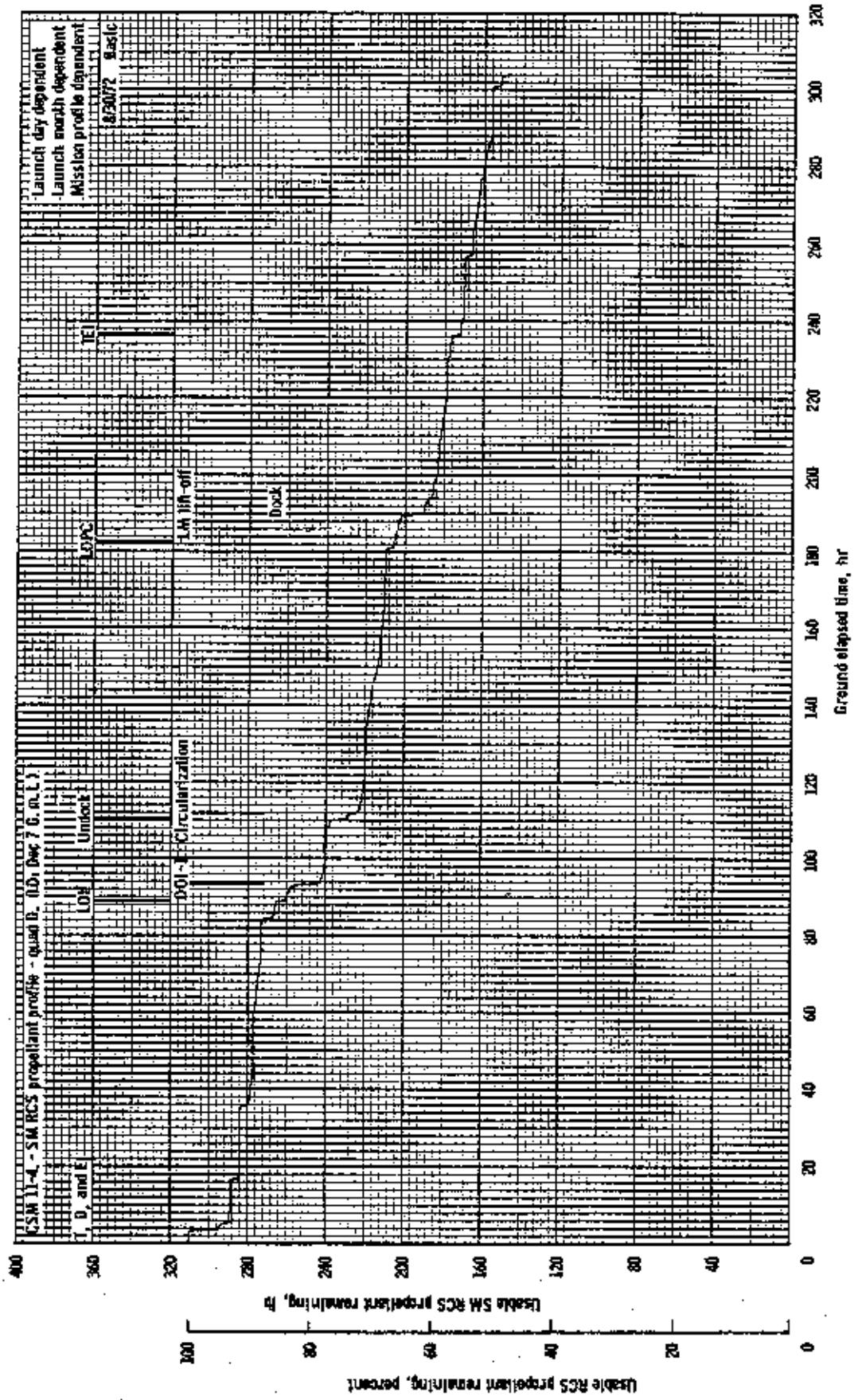


SM RCS propellant profile - quad B.

10/23/72

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Mission profile dependent
8/29/72 Basic

CM RCS PROPELLANT SUMMARY

Item	Propellant required, lb	Propellant remaining, lb
Loaded	--	233.2
Trapped	36.4	196.8
Available for mission planning . . .	--	196.8
Nominal usage*	54.7	142.1
Nominal remaining	--	142.1

*CM RCS propellant usage is for dual ring operation
with DAP control

Mission profile dependent
8/30/72 Basic

GROUND RULES AND ASSUMPTIONS FOR THE CSM CRYOGENICS

1. Three O_2 and H_2 tanks are available.
2. Fuel cell purging is included in the EPS requirements.
3. No cryogenic venting was assumed in flight.
4. The EPS hydrogen consumption rate (\dot{H}_2) (lb/hr) = $0.00257 \times I_{fc}$ when I_{fc} is the total fuel cell current.
5. The EPS oxygen consumption rate (\dot{O}_2) (lb/hr) = $7.936 \times \dot{H}_2$.
6. No allowance for the SM enhancement battery is assumed.

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Mission profile dependent
8/30/72 Basic

7. The following tank depletion schedules are being used:

CRYO MANAGEMENT SCHEDULE

GET (hrs:min)	Tank numbers				
	Oxygen htrs ^a		H ₂ tank 1, 2 htrs, tank 3 fan		
	Auto	Off	Auto	Manual	Off
0:00	1, 2	3	1, 2	3	
4:17	1, 2, 3				
5:05	1, 2	3			
8:40	3	1, 2	3		
15:10					1, 2
39:05	1, 2, 3				
39:55	3	1, 2			3
70:00			1, 2	3	
^b 84:40	1, 2	3			
^c 256:50	1, 2, 3				
259:23	1, 2	3			

^aO₂ tank 1 and 2 heaters may be required if the LM pressure equalization at approximately 39:00 hrs GET causes a pressure decay in the O₂ tanks.

^bSwitch to 50-watt heaters in O₂ tanks 1, 2 at this time.

^cSwitch to 100-watt heaters in O₂ tanks 1, 2 and 3 at this time.

The CSM consumables summary (table 5-1) shows that a significant H₂ and O₂ margin exists at the end of the mission. This is reflected in the H₂ and O₂ usage profiles shown in figures 5-1 and 5-2. However, these curves do not include dispersions.

In summary, the nominal mission requirements can be satisfied with the existent consumables.

Mission profile dependent
8/30/72 Basic

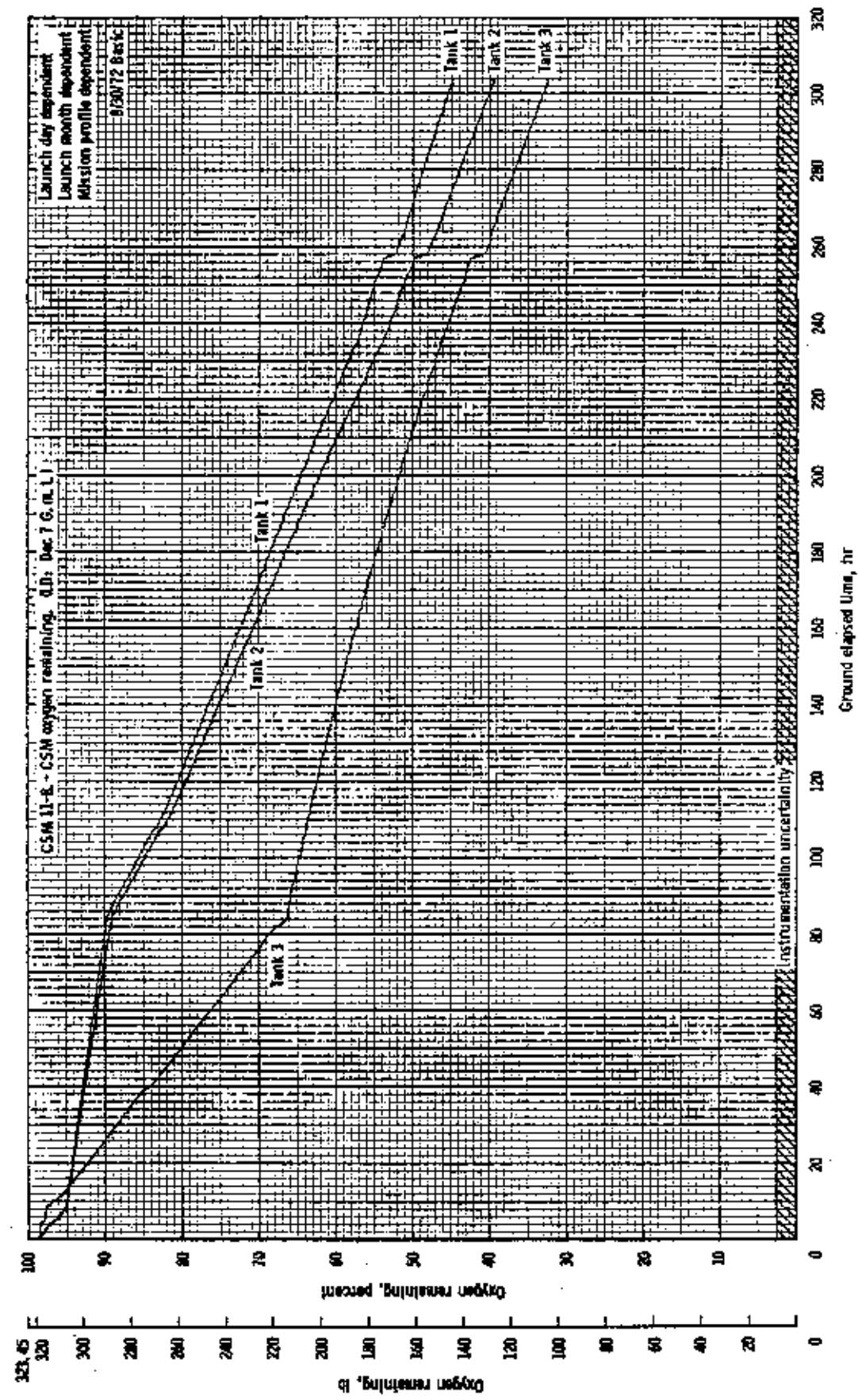
APOLLO 17 CRYOGENIC SUMMARY

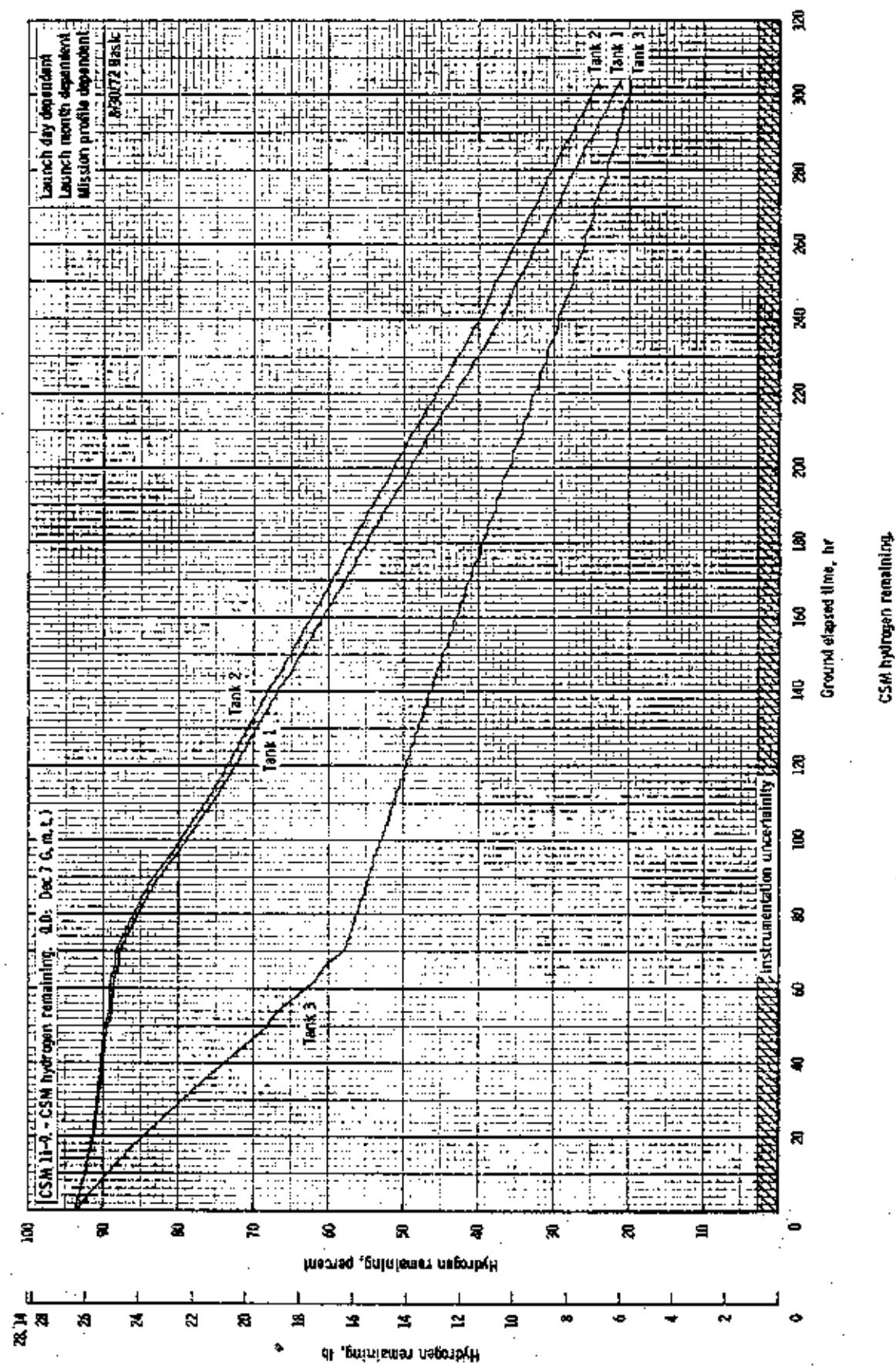
	H ₂ lbs	O ₂ lbs
Planning allowance		
Total loaded	87.9	990.3
Less residual	3.5	19.8
Less instrumentation error	<u>2.3</u>	<u>26.0</u>
Available for mission planning	82.1	944.5
Prelaunch requirement*	5.7	44.8
Flight requirement		
EPS (including fuel cell purge)	60.5	479.3
ECS (including cabin purge + EVA)	--	85.7
LM pressurization	--	11.9
	<u>60.5</u>	<u>576.9</u>
Nominal reserves		
EPS uncertainty (2.5%)	1.5	12.0
ECS uncertainty (.08#/hr)	--	24.3
	<u>1.5</u>	<u>36.3</u>
Total requirement	67.7	658.0
Margin T = 0 (fill/launch)	14.4	286.5

*Supplied by KSC.

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Mission profile dependent
8/29/72 Basic

ASSUMPTIONS FOR THE DPS ANALYSIS

The propellant loading is based on the optimization of the fuel and oxidizer balance that was computed from the LM-12 engine data. The ΔV requirements were coordinated with the Landing Analysis Branch. The ΔV requirement for lunar descent differs from that in the operational trajectory because of differences in the inert vehicle weight, plus an allowance for 155 seconds from low gate to touchdown.

The 3σ dispersions represent total propellant cost based on 3σ uncertainties in propellant loading, trapped propellant, specific impulse, ΔV , separation weight, non- ΔV consumables weight, mixture ratio, and physical location of the low level sensor.

A flying time of 2 minutes and 35 seconds below low gate will be called a nominal requirement.

The following data were used:

- a. The separation weight is $36\ 733.5 \pm 39.3$ pounds.
- b. Integrated average I_{sp} is 305.1 ± 1.8 seconds.
- c. Mixture ratio is $1.5999 \pm .012$.
- d. Non- ΔV consumables from separation to PDI are 110.7 pounds.

Mission profile dependent
8/29/72 Basic

DPS PROPELLANT SUMMARY

Item	Total propellant, lb	Hover time, sec
Loaded	19 562.9	--
Trapped and unavailable	-100.9	--
Outage	-16.6	--
Available for ΔV	19 445.4	--
Required for ΔV (155-sec flying time from low gate, $\Delta V = 7099.3$ fps)	-18 820.0	--
Remaining	625.4	67
Dispersion (-3 σ)	-280.9	--
Pad	344.5	37
Operational allowances		
Low-level (5 sec, 26.5 fps)	-47.2	--
Abort reserve (20 sec, 106 fps)	-187.5	--
Margin (hover time before abort decision point)	109.8	12

Mission profile dependent
8/29/72 Basic

ASSUMPTIONS FOR THE APS ANALYSIS

The propellant loading is based on the optimization of the fuel and oxidizer balance that was computed from the LM-12 engine data. The ΔV requirements were coordinated with the Landing Analysis Branch. The ΔV requirement for the lunar ascent differs from that in the Operational Trajectory because of differences in the inert vehicle weight.

The APS analysis accounts for an APS TPI, engine valve-pair malfunction, and balanced couples. The following data were used in determining the APS propellant requirements for Apollo 17.

- a. $I_{sp} = 309.9 \pm 3.5$ seconds.
- b. Mixture ratio = $1.598 \pm .027$.
- c. Lift-off weight = $10\ 917.1 \pm 38.7$ pounds.

Mission profile dependent
8/29/72 Basic

APS PROPELLANT SUMMARY

Item	Total propellant, lb
Loaded	5257.5
Trapped and unavailable	-51.9
Outage	-12.2
Available for ΔV	5193.4
Required for Ascent (6062.2 fps)	-4974.2
Remaining	219.1
Required for APS TPI ^a (54.8 fps)	-32.6
Remaining	186.5
Dispersions (-3 σ)	-67.6
Pad	118.9
Operational allowances	
Engine valve-pair malfunction ($\Delta MR = +.0097$ or $-.0183$)	-22.8
Balanced couples on	-39.2
Half-degree out of plane (18 fps)	-10.7
Margin	46.3

^aThe total TPI ΔV is 76.6 fps. It is assumed that 22 fps is obtained by a 10-sec, 4-jet ullage.

Mission profile dependent
8/29/72 Basic

ASSUMPTIONS AND GROUND RULES FOR THE LM RCS ANALYSIS

1. Data for the LM RCS engine performance and propellant requirements were obtained from the SODB, Volume II, and from postflight analyses of Apollo 9-16 missions.
2. The analysis assumes an insertion trim or RCS tweak burn (nominally zero) of 20 fps.
3. It is assumed there will be a 5-fps RCS trim following the APS TPI maneuver.

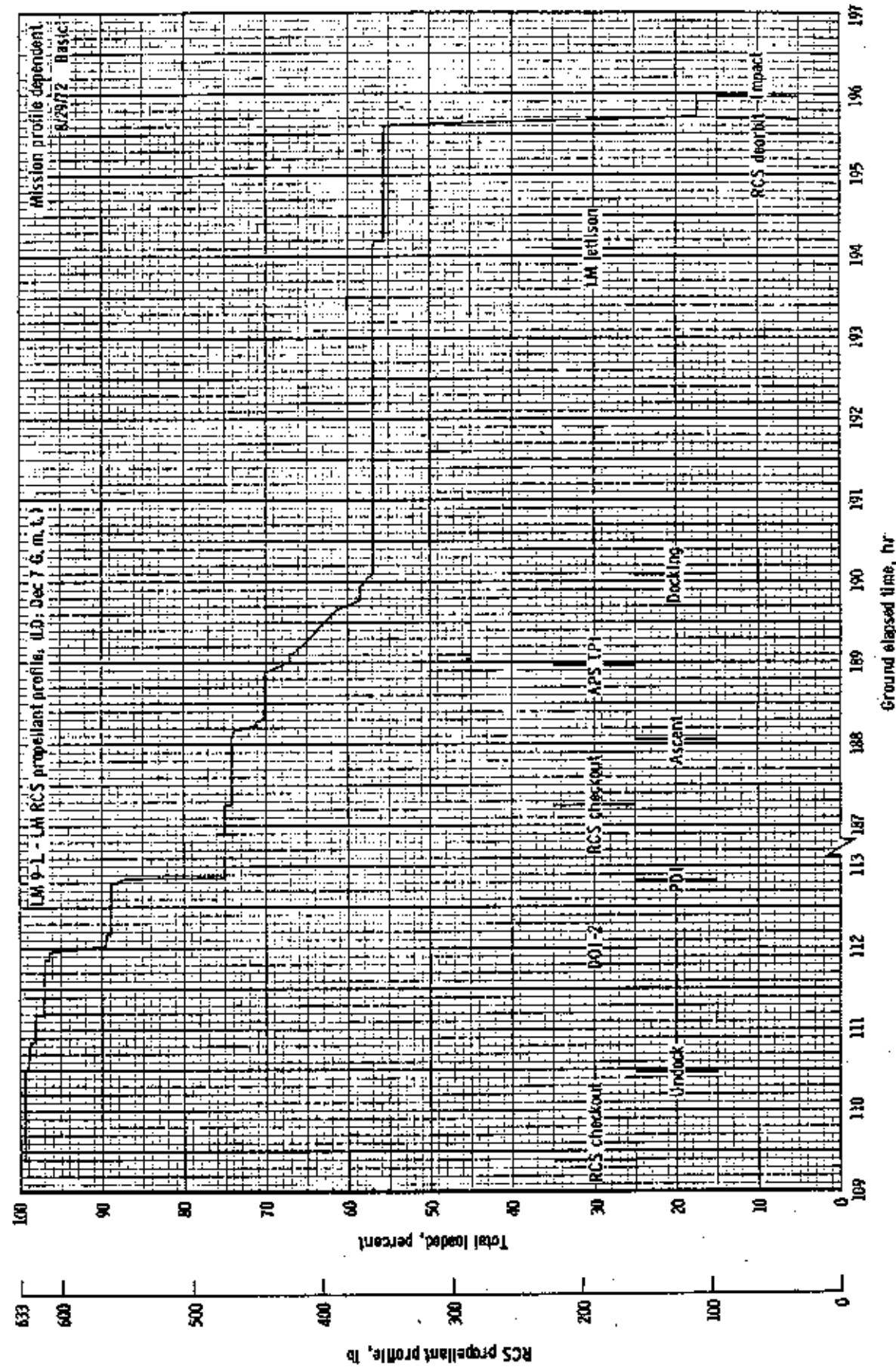
Mission profile dependent
(LD: Dec 7 G.m.t.)

LM RCS PROPELLANT LOADING AND USAGE SUMMARY

Item	Required, lb	Remaining, lb
Loaded		631.2
Trapped	38.0	593.2
Gaging inaccuracy and loading tolerance	43.5	549.7
Mixture ratio uncertainty	17.0	532.7
Usable		532.7
Nominal usage through lunar landing	158.2	374.5
Nominal usage from landing through docking	114.2	260.3
Nominal usage from docking through impact	249.4	10.9
Usable propellant remaining		10.9

10/23/72

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Lm RCS propellant profile,

Mission profile dependent
8/28/72 Basic

ASSUMPTIONS FOR THE LM EPS ANALYSIS

- a. Energy available from the descent batteries is 2075 A-h and from the ascent batteries is 592 A-h.
- b. Energy unusables caused by lack of continuous STDN coverage for the descent and ascent stages are zero.
- c. Energy unusables caused by TM inaccuracies for the descent and ascent stages were 74 and 18 A-h, respectively. The new descent battery current measurement uncertainty of 0.5 amperes per battery was used.
- d. Energy unusables caused by checklist deviations (dispersion) for the descent and ascent stages were 34 and 6 A-h, respectively. This dispersion is obtained by calculating 2 percent of the energy used.
- e. In accordance with the Flight Plan, the PGNCS was in standby mode from surface powerdown until 3.7 hours before powerup.
- f. The RCS heaters were assumed to have a 100 percent duty cycle for 15 minutes after initial activation and then to decrease to an 18.3 percent duty cycle until undocking. For the remainder of the mission, except for lunar surface stay, the duty cycle was 2.6 percent. The duty cycle during lunar surface stay was 3.9 percent.
- g. The inverter was operated throughout the mission.
- h. The CDR and LMP forward window heaters were assumed not to be needed.
- i. The six MESA heaters have a total power rating of 150 watts. The power required by the heaters during the period LM activation to touchdown was assumed to be 5.6 watts. From touchdown until 1 hour into EVA-2, the heating were assumed to draw 27.5 watts. The power required until the beginning of EVA-3 was 20 watts. The MESA heaters were turned off at that point.
- j. TV power is supplied by the LM during the first hour of EVA-1. For the remainder of EVA-1 and the other EVA's, the TV will be powered by the Lunar communications relay unit (LCRU).
- k. The liquid cooled garment pump was operated before each EVA for 10 minutes.

10/23/72

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Mission profile dependent
8/28/72 Basic

ASSUMPTIONS FOR THE LM EPS ANALYSIS - Concluded

1. The S-band power amplifier was cycled as dictated by the time line.
 - m. The portable utility lights were assumed to be off throughout the mission.
 - n. In accordance with the Flight Plan, the floodlights were turned off at surface powerdown, and on again at powerup. The overhead and forward floodlights were not used.
 - o. The short ($M=1$) rendezvous was considered nominal.
 - p. At the beginning of the analysis, it was assumed that a total of 10 A-h had been used from the descent batteries between the period starting 30 minutes before launch and ending at the conclusion of transposition and docking.

Mission profile dependent
8/28/72 Basic

DESCENT STAGE EPS SUMMARY

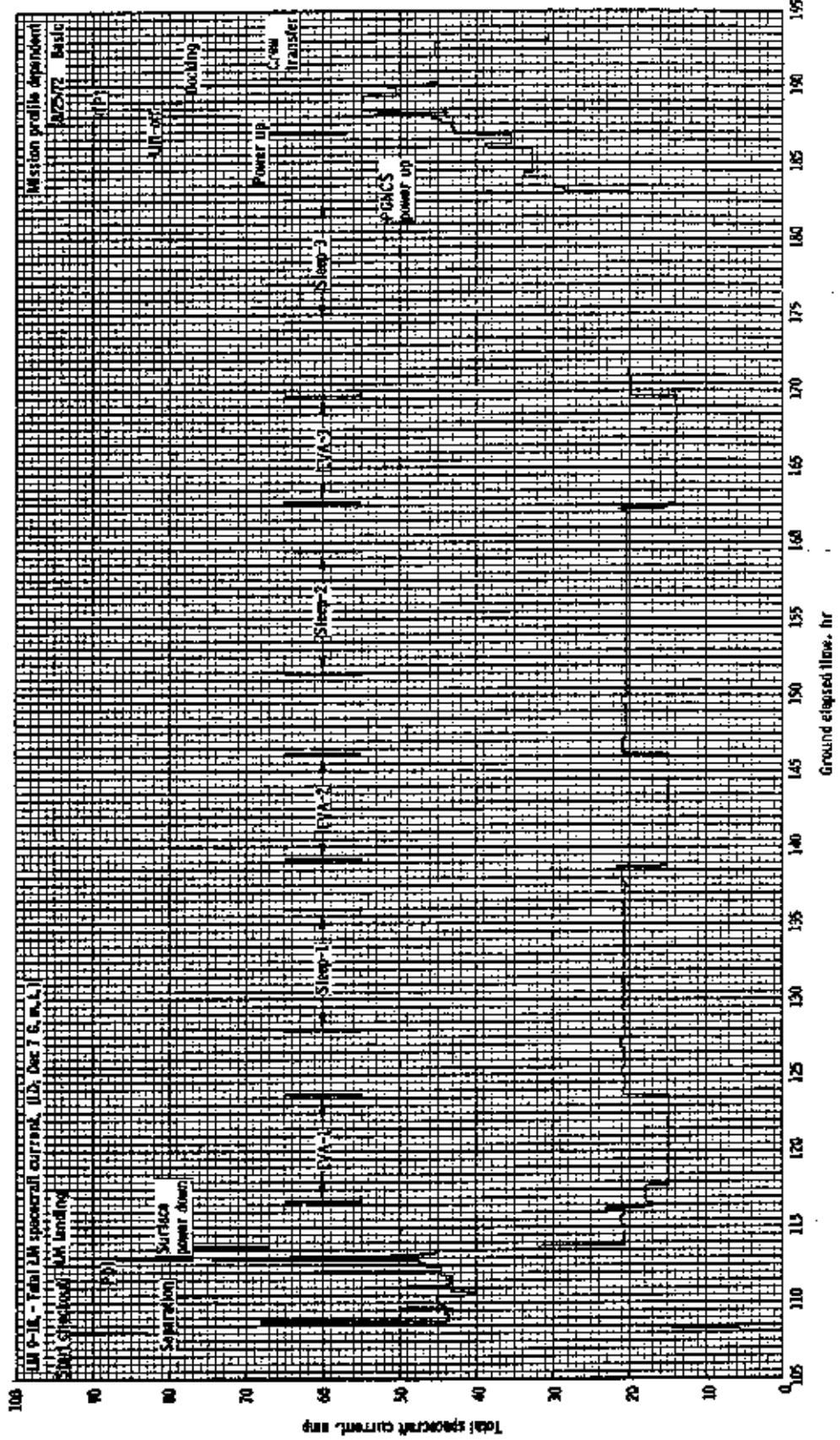
Item	A-h required	A-h remaining
Initial capacity	--	2075
Total unusables	108	1967
Required through touchdown	219	1748
Required for surface stay	1470	278
Total usable margin	--	278

ASCENT STAGE EPS SUMMARY

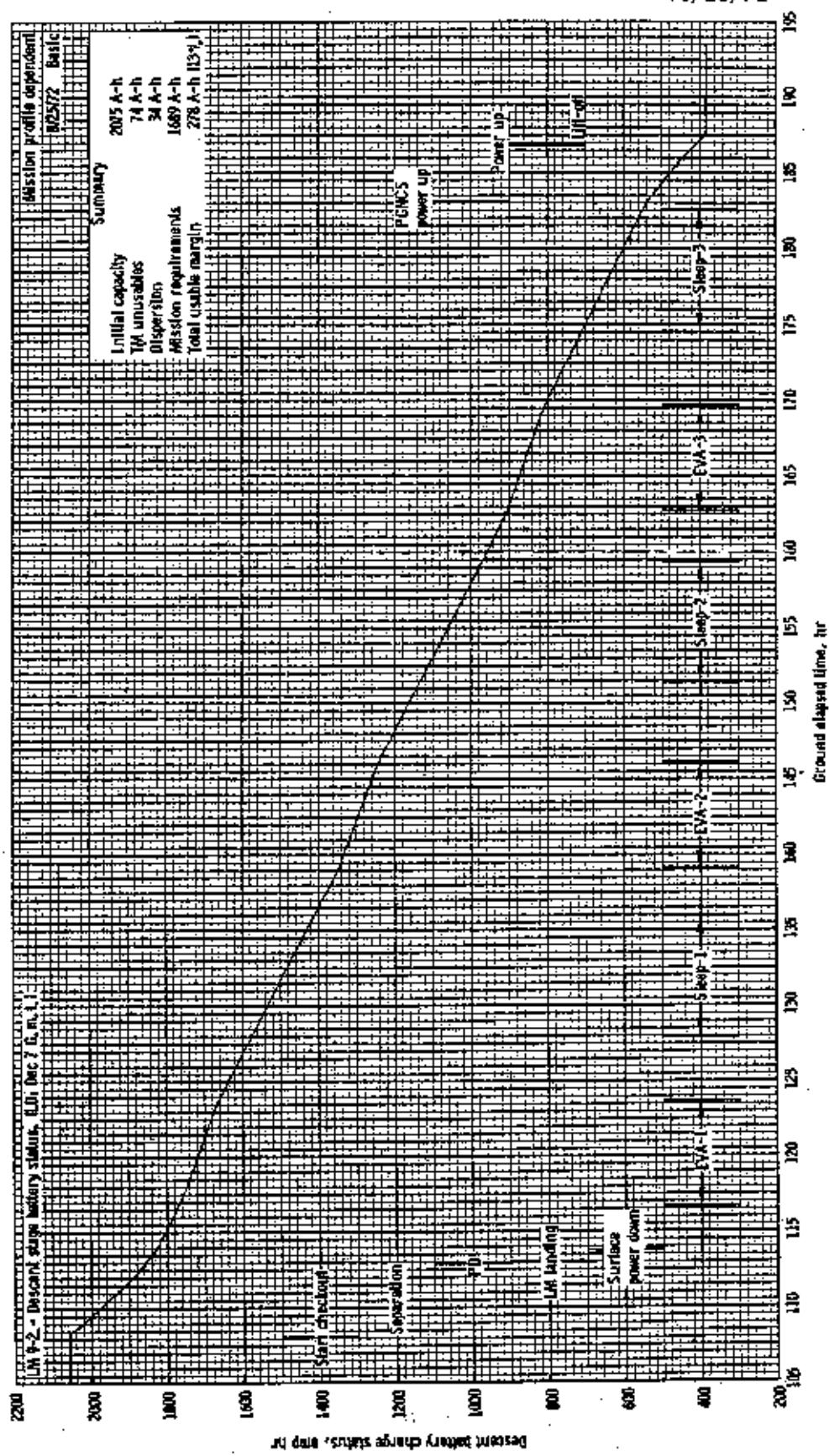
Item	A-h required	A-h remaining
Initial capacity	--	592
Total unusables	24	568
Required through docking	150	418
Required through crew transfer	284	284

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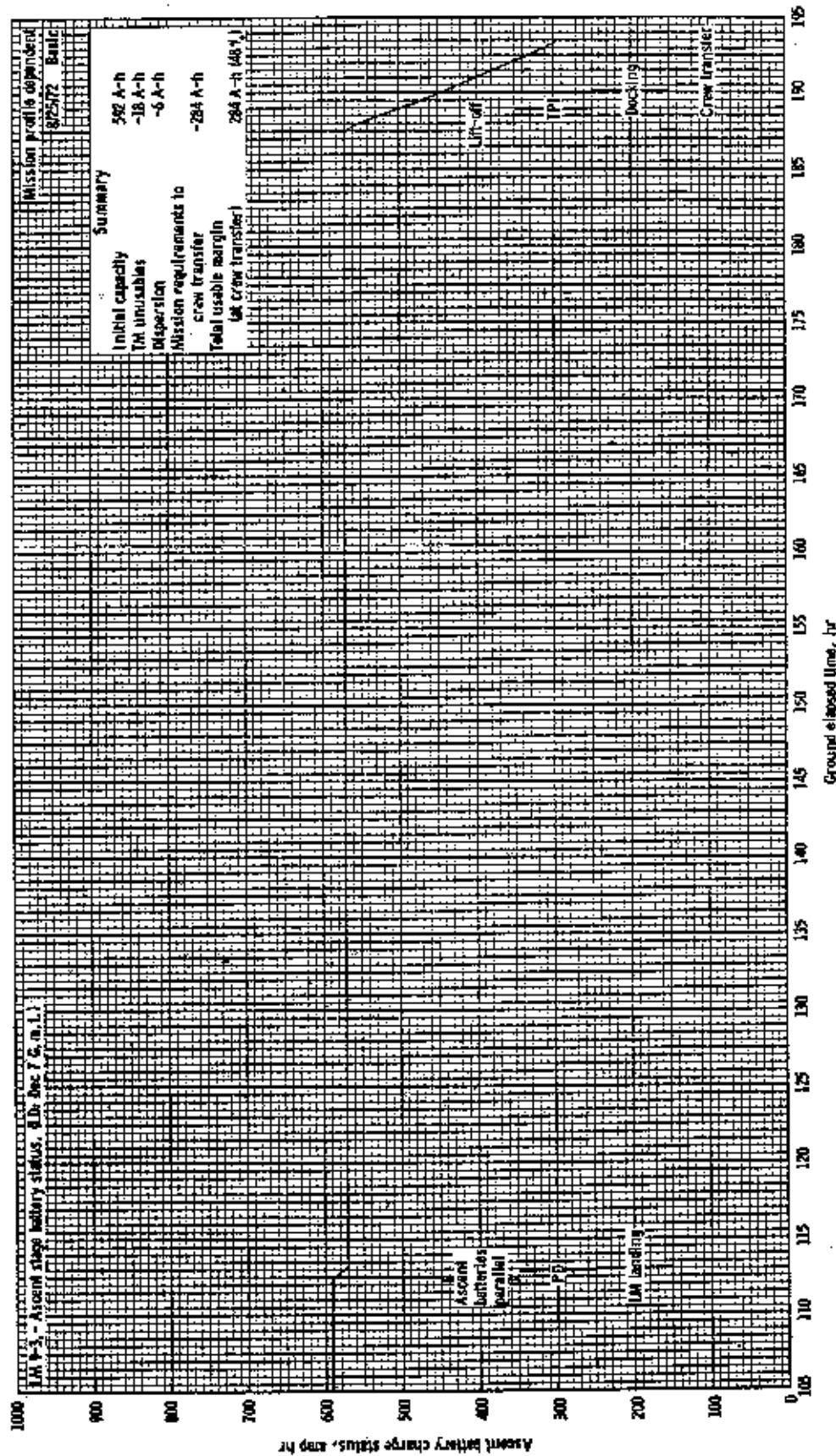
4-27



10/23/72



Apollo 17 descent electrical energy remaining.



Apollo 17 ascent vehicle energy remaining.

Mission profile dependent
8/28/72 Basic

LM ECS ASSUMPTIONS

- a. The oxygen analyses were calculated using a cabin leak rate of 0.06 lb/hr based on previous Apollo postflight analyses.
- b. Metabolic rates were varied using the final flight plan and table 4.3-II of SODB Vol. II.
- c. Metabolic oxygen consumed was calculated by $(1.643 \times 10^{-4} \times \text{lb/Btu})$ (metabolic rate, Btu/hr).
- d. The cabin regulator check and the suit integrity check were assumed to require 0.5 pound of oxygen.
- e. The cabin was pressurized five times with 5.5 pounds required for each pressurization except the last two which required 5.8 pounds.
- f. The dispersion in the oxygen profile was calculated as 5 percent of the nominal oxygen requirement.
- g. The PLSS refills required 47.0 pounds of water and 5.4 pounds of oxygen.
- h. The sublimator fill required 2.23 pounds.
- i. The drink bags required 8.0 pounds of water.
- j. Water lost through crew micturition was 0.11 lb/hr per man.
- k. Water required for thermal control was calculated by dividing the total spacecraft heat load by 1040 Btu/lb.
- l. The dispersion in the water profile was calculated as 5 percent of the nominal usage.
- m. The descent oxygen tanks were loaded to 2610.0 psi at 70.0°F.

Mission profile dependent
9/1/72 Basic

LM ECS SUMMARY

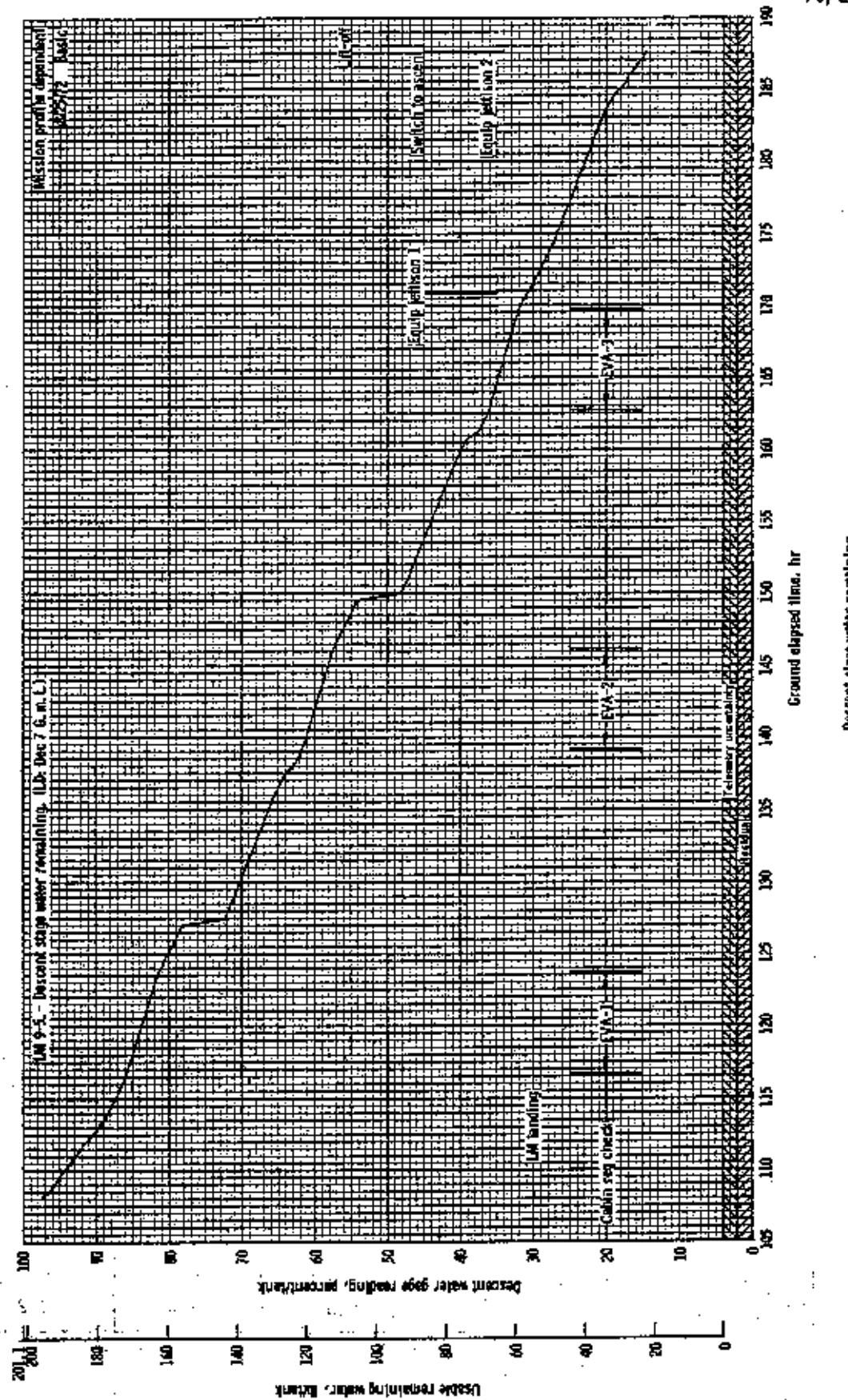
(a) Water

Description	Descent, 1b	Ascent, 1b
Loaded	419.0	85.0
Sampling	11.0	0
Residual	8.4	1.7
Telemetry uncertainty	8.4	7.5
Loading uncertainty	3.0	1.8
Available for mission	388.2	74.0
Required to lunar landing	28.1	0
Required to lunar lift-off	319.2	0
Required to LM/CSM docking	0	17.2
Required to LM close-out	0	15.1
Remaining in tanks	40.9	41.7
Dispersion	17.4	1.6
Margin	23.5	40.1

(b) Oxygen

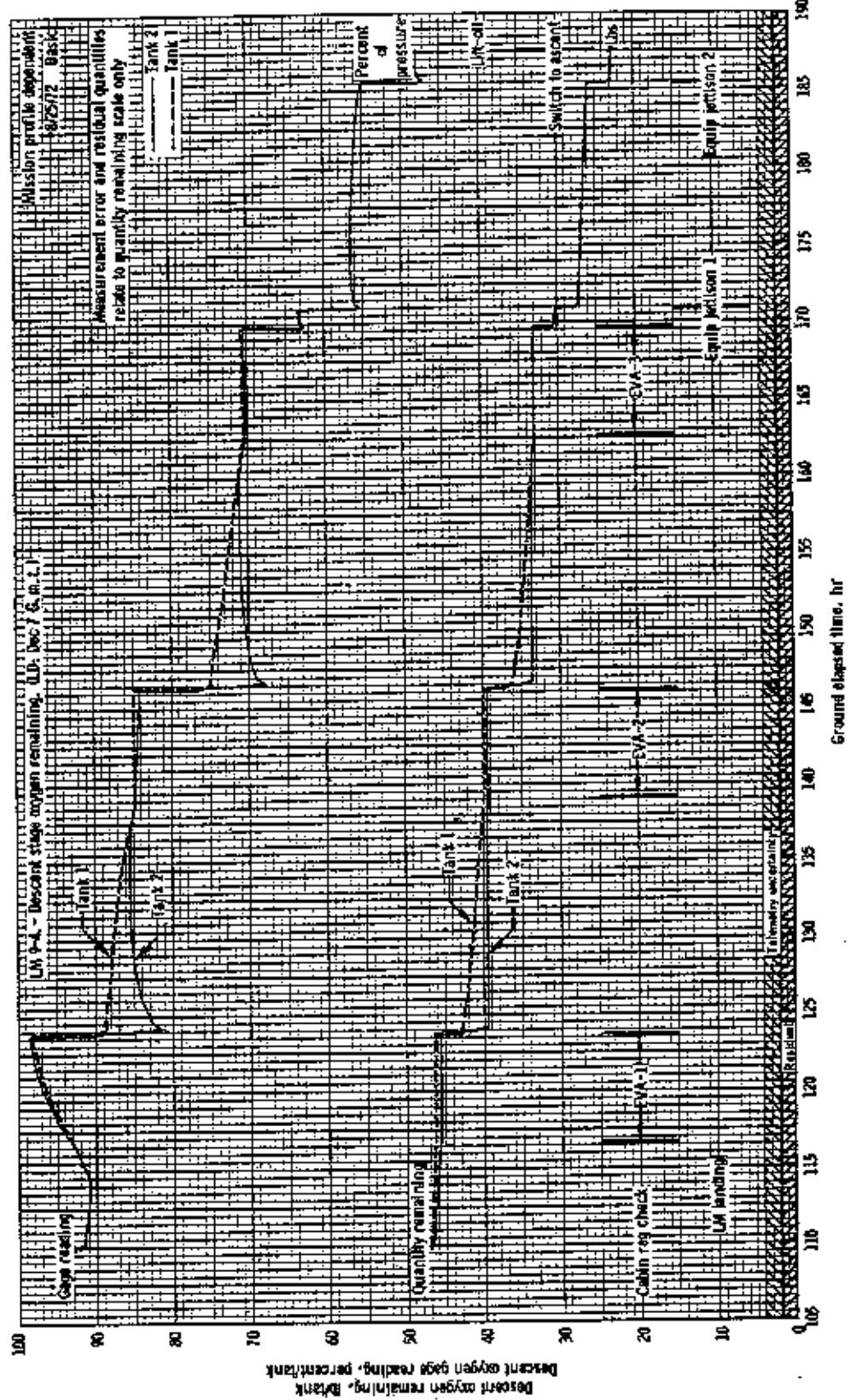
Description	Descent, 1b	Ascent 1, 1b	Ascent 2, 1b
Loaded	93.8	2.4	2.4
Residual	1.6	0.1	0.1
Measurement uncertainty	2.2	0.1	0.1
Available for mission	90.0	2.2	2.2
Required to lunar landing	1.3	0	0
Required to lunar lift-off	47.5	0	0
Required to LM/CSM docking	0	0.6	0
Required to LM close-out	0	0.1	0
Remaining in tank	41.2	1.5	2.2
Dispersion	2.4	0.1	0
Margin	38.8	1.4	2.2

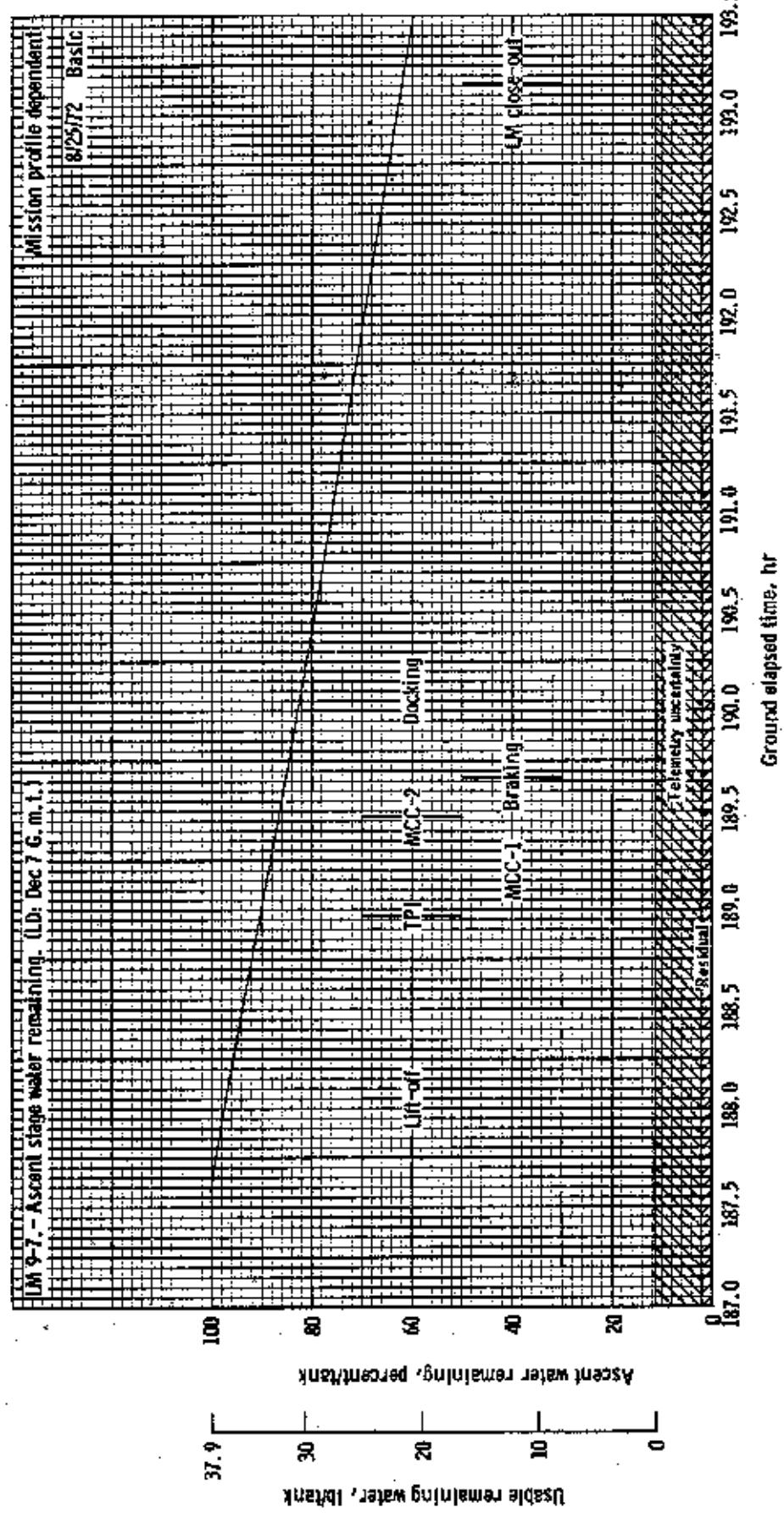
10/23/72



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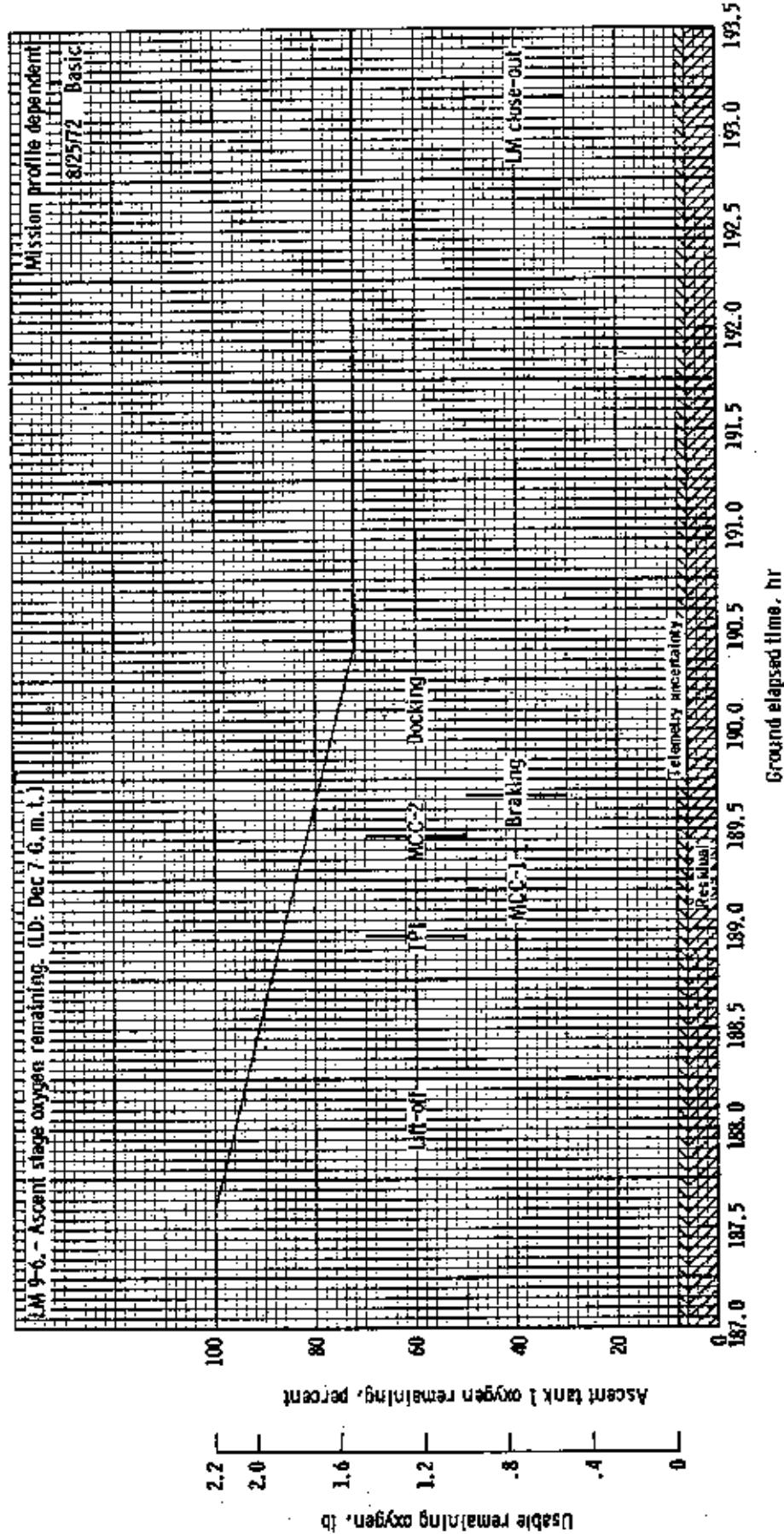
4-33





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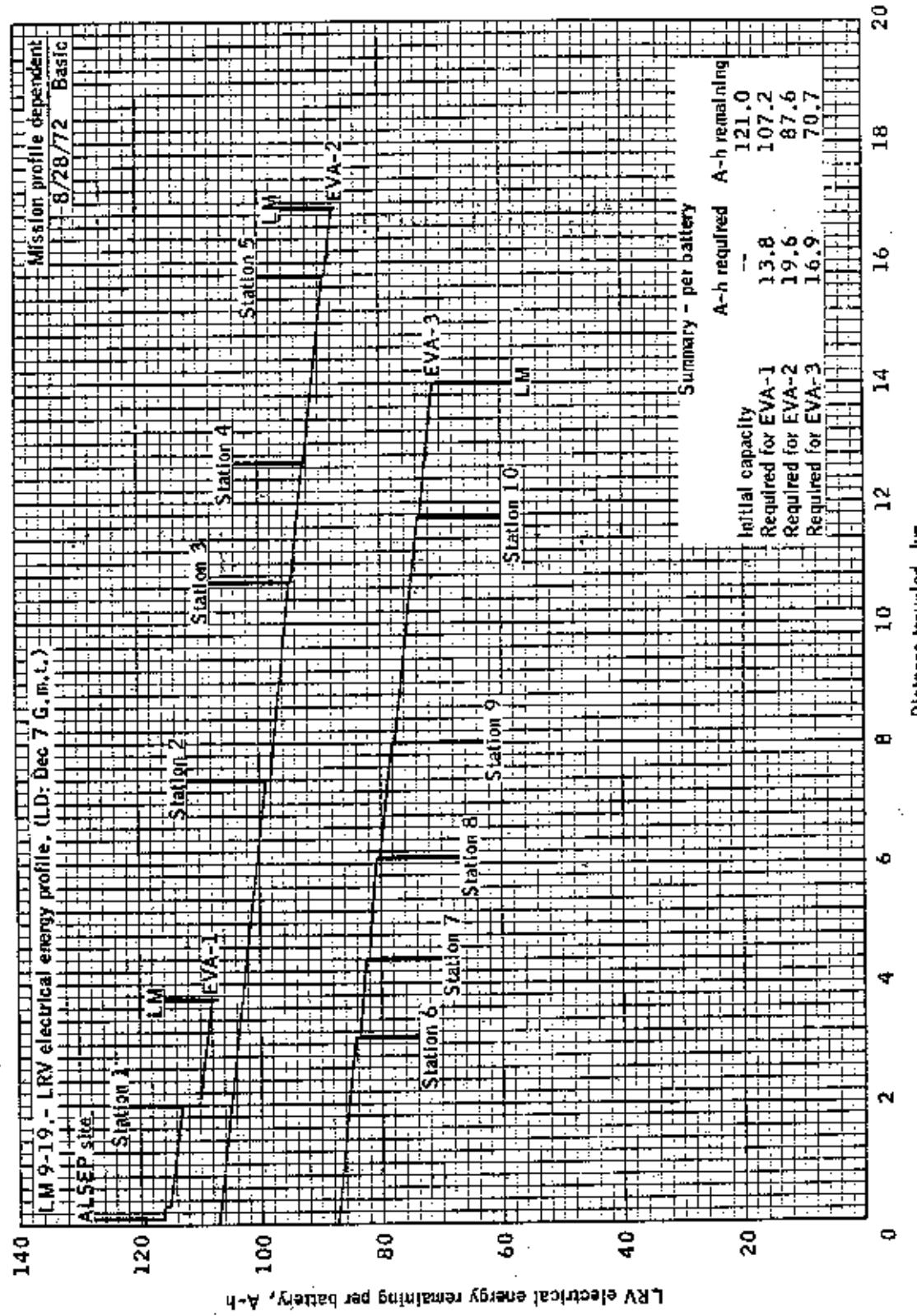
Mission profile dependent
8/28/72 Basic

ASSUMPTIONS FOR THE LRV EPS ANALYSIS

- a. The energy available from each of the two batteries is 121 A-h.
- b. No unusables or uncertainties are considered in the budget.
- c. Slopes were derived from the Apollo 17 landing site form line map.
- d. Terrain types and stop times were derived from the traverse data package.
- e. The MSFC soil model L-3 was used.
- f. The vehicle speed was 8 km/hr except where mobility conditions dictated lower speeds.
- g. The traction drive system was off during stops longer than 5 minutes.
- h. The navigation and caution systems were operated throughout each traverse.
- i. Electrical power required by the LCRU during EVA-1 was supplied by LRV batteries. While driving, the LCRU was in the PM1/WB mode. During all station stops the LCRU mode of operation was FM/TV.
- j. The vehicle weight was 1470 pounds.
- k. A wander factor of 1.1 is included in the analysis.
- l. The distance traveled is the map or straight line distance between points.
- m. An effective alpha of 0.40 was assumed for all cool-down periods.

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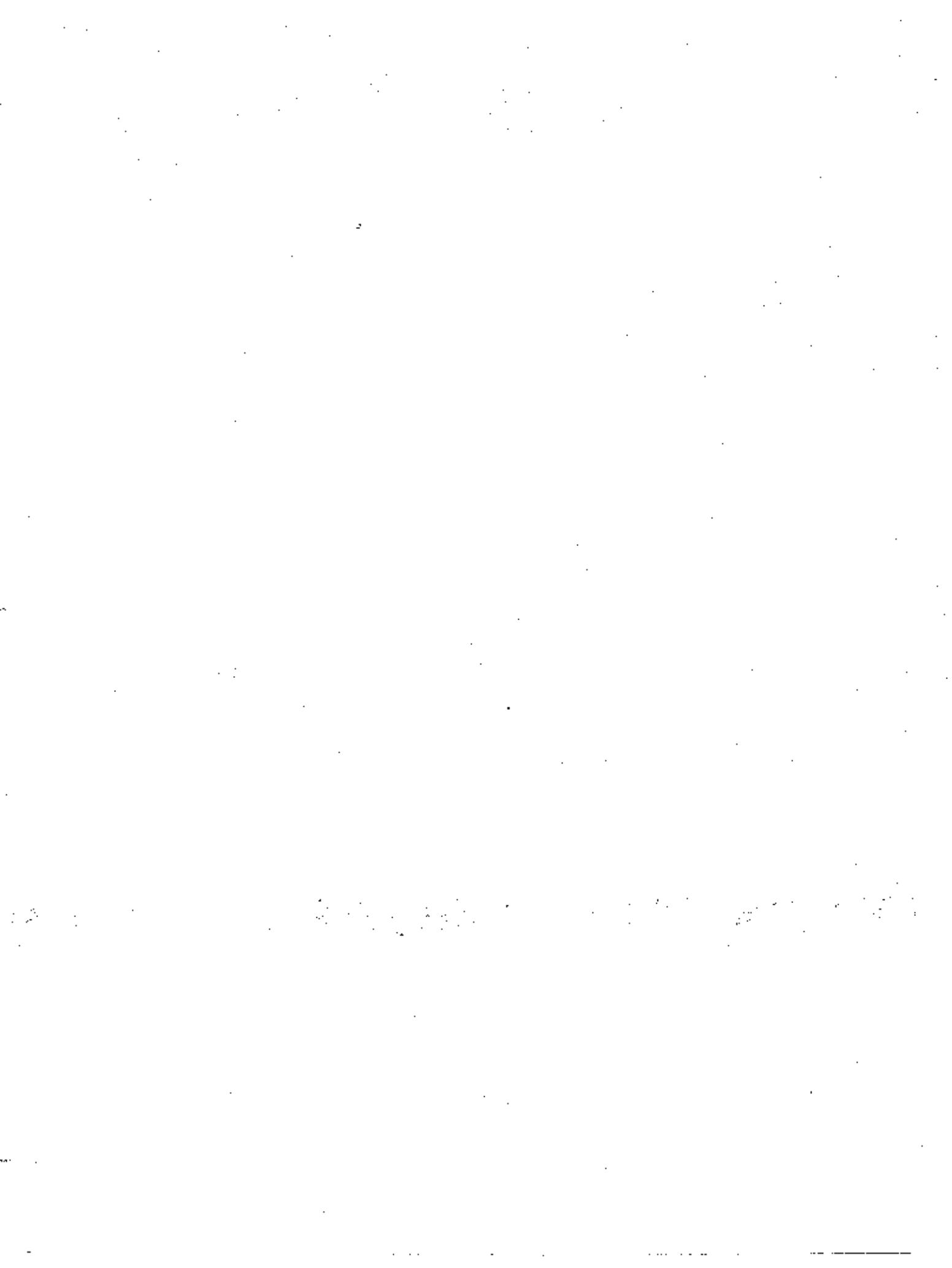
4-37



LRV electrical energy profile.



SECTION 5 - SUMMARY TIMELINE

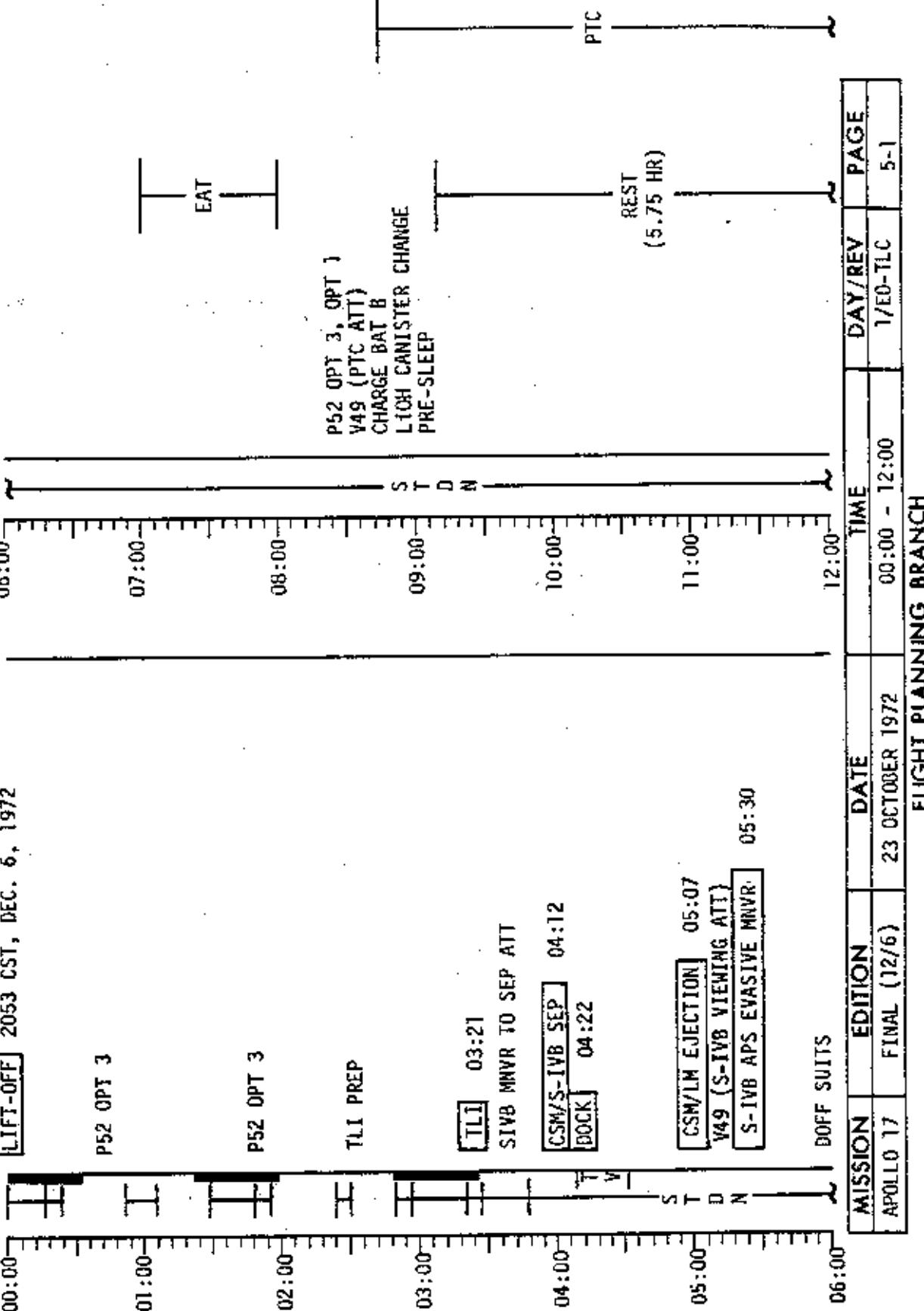


FLIGHT PLAN

CSM

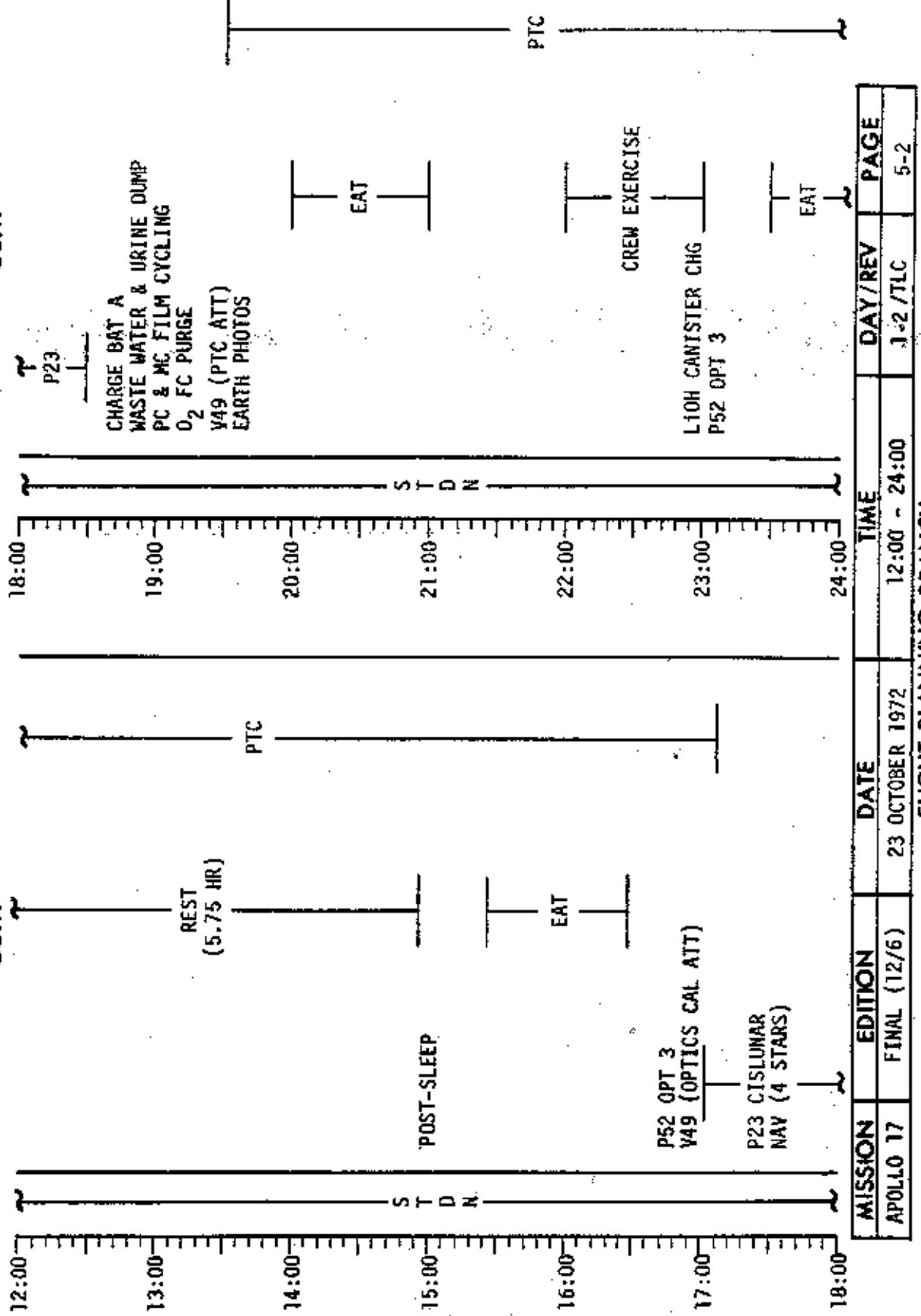
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LIFT-OFF 2053 CST, DEC. 6, 1972



FLIGHT PLAN

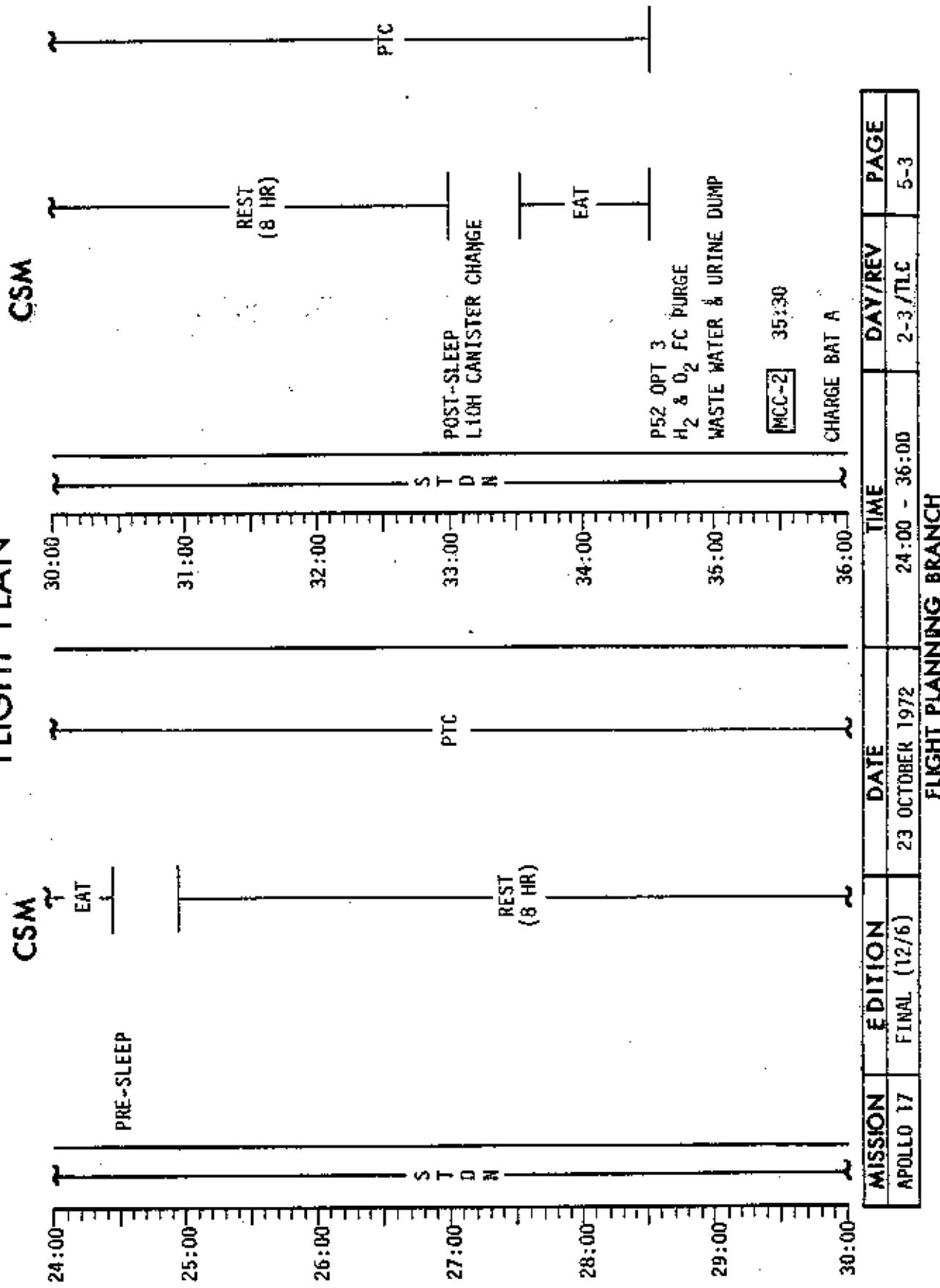
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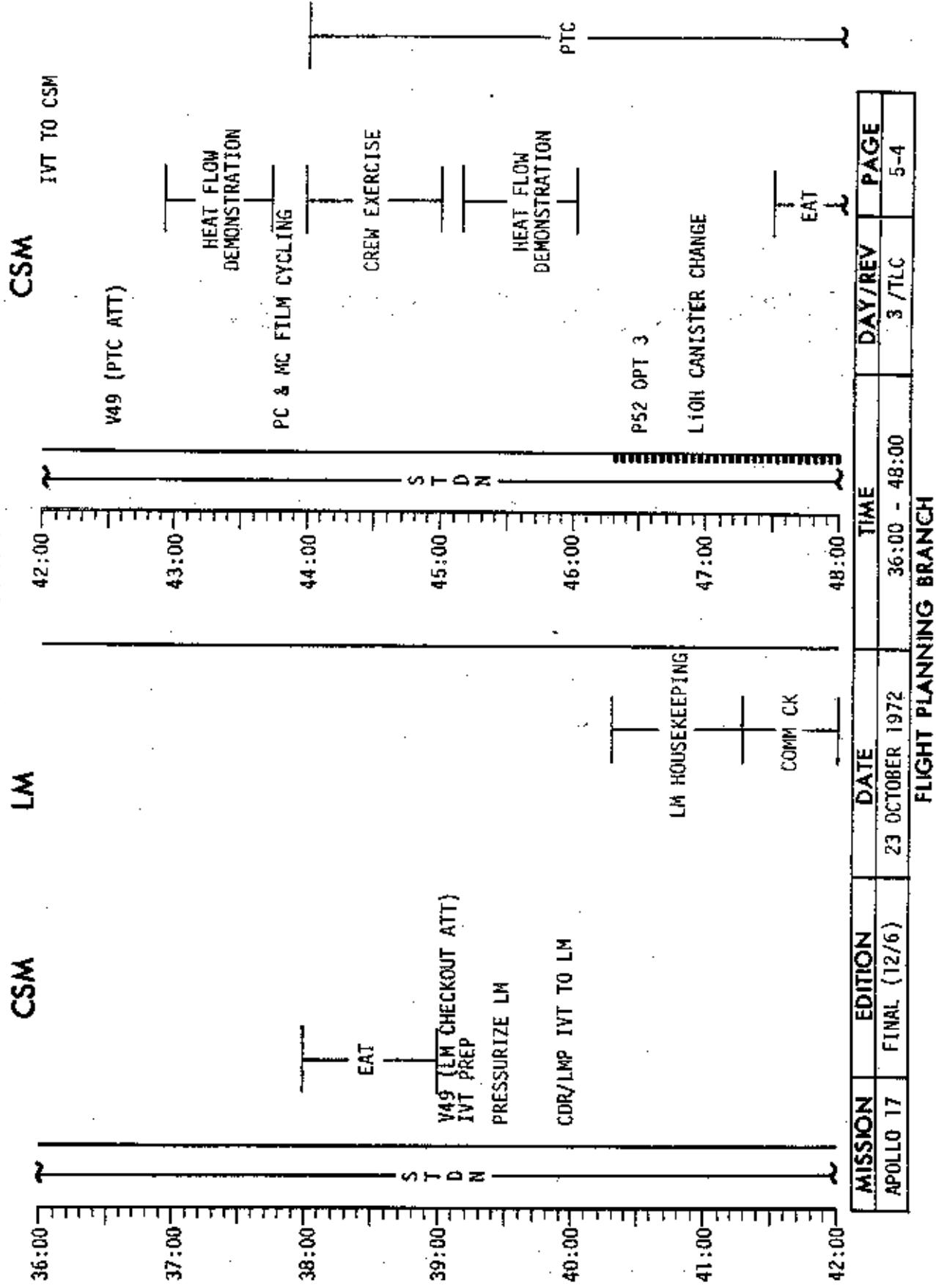
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	12:00 - 24:00	1-2 / TLC	5-2

FLIGHT PLANNING BRANCH

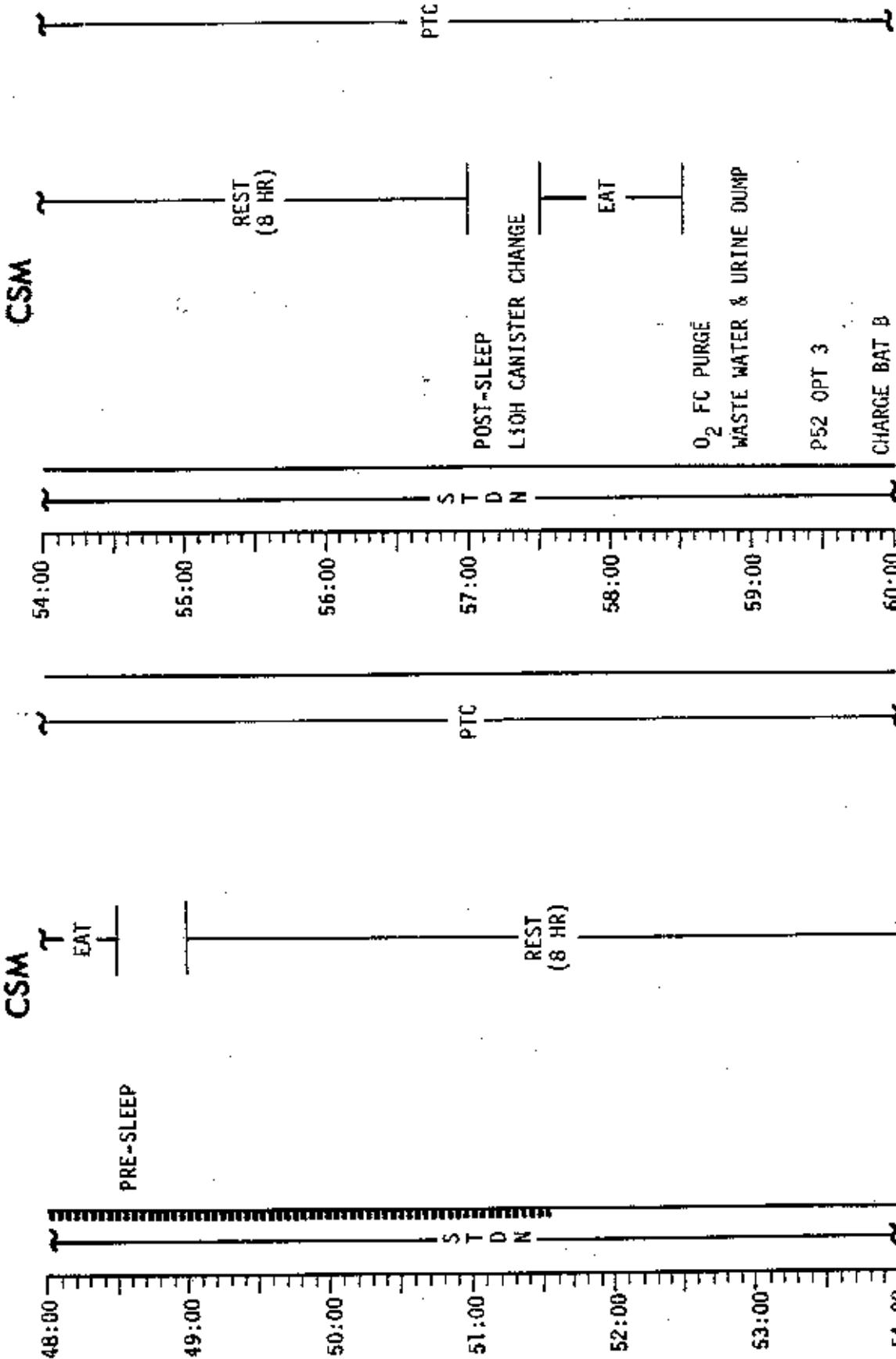
FLIGHT PLAN



FLIGHT PLAN



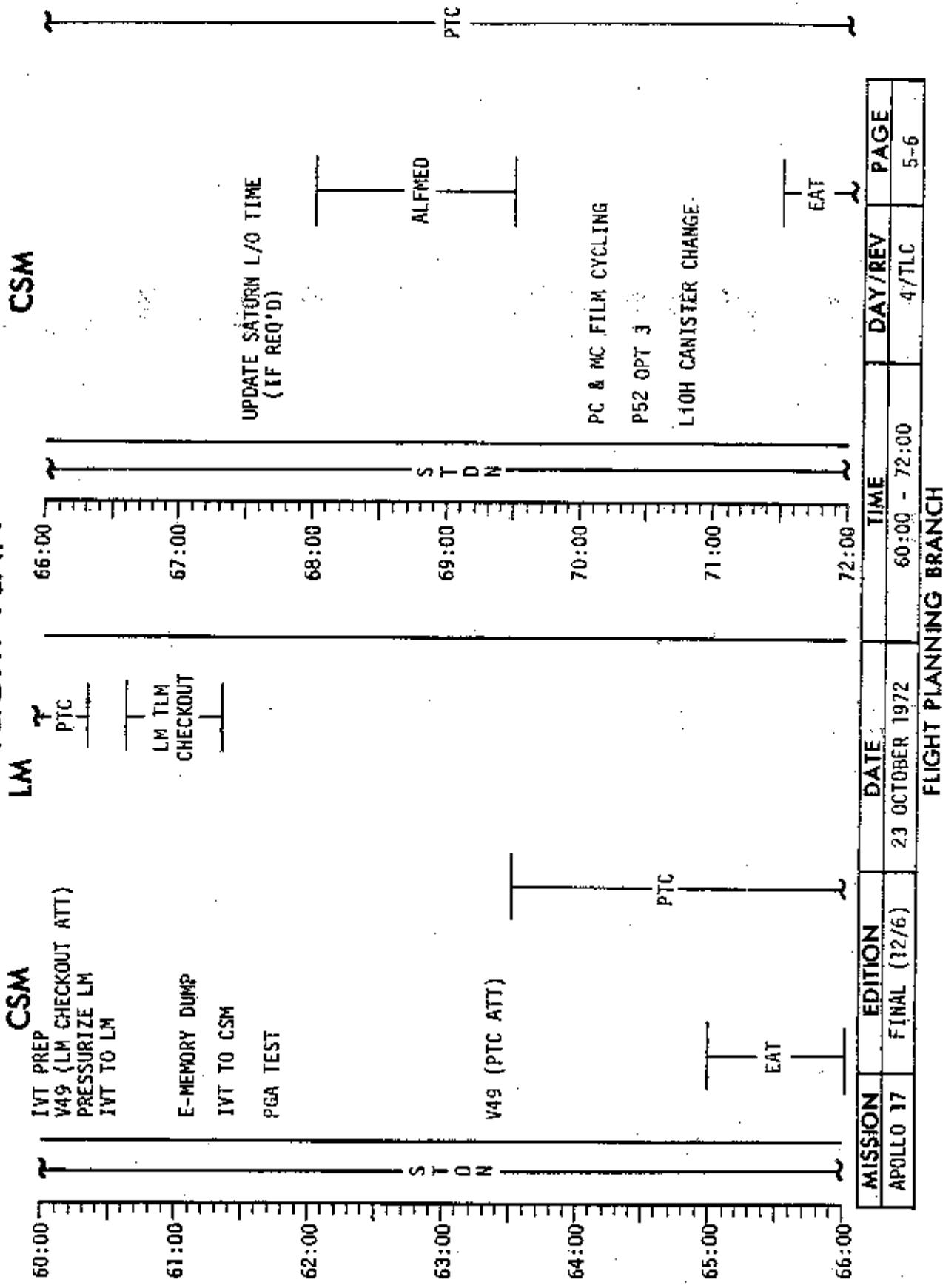
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	48:00 ~ 60:00	3-4 /TLC	5-5

FLIGHT PLANNING BRANCH

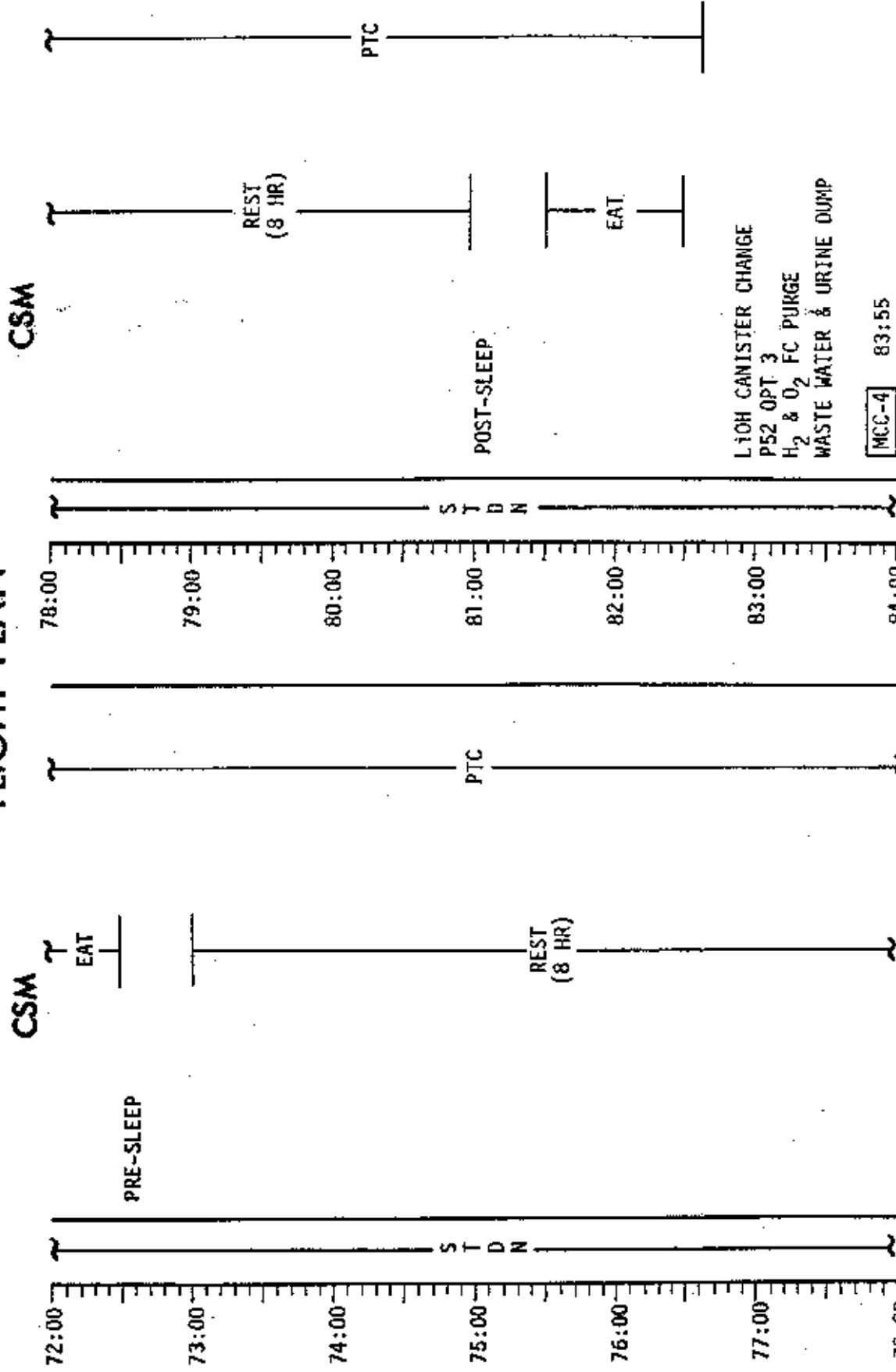
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	60:00 - 72:00	4/TLC	5-6

FLIGHT PLANNING BRANCH

FLIGHT PLAN

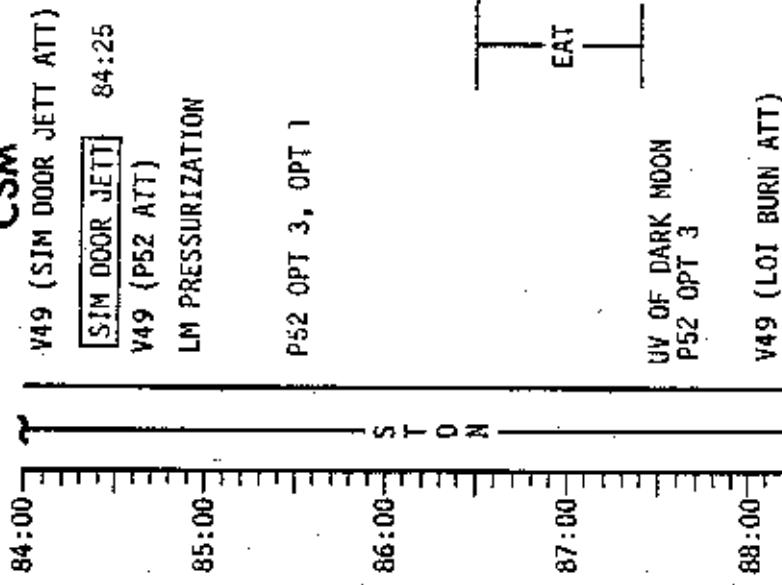


MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	72:00 - 84:00	4-5/PTC	5-7

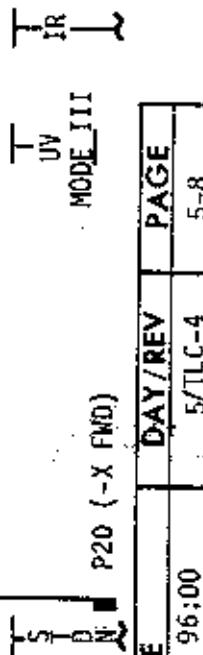
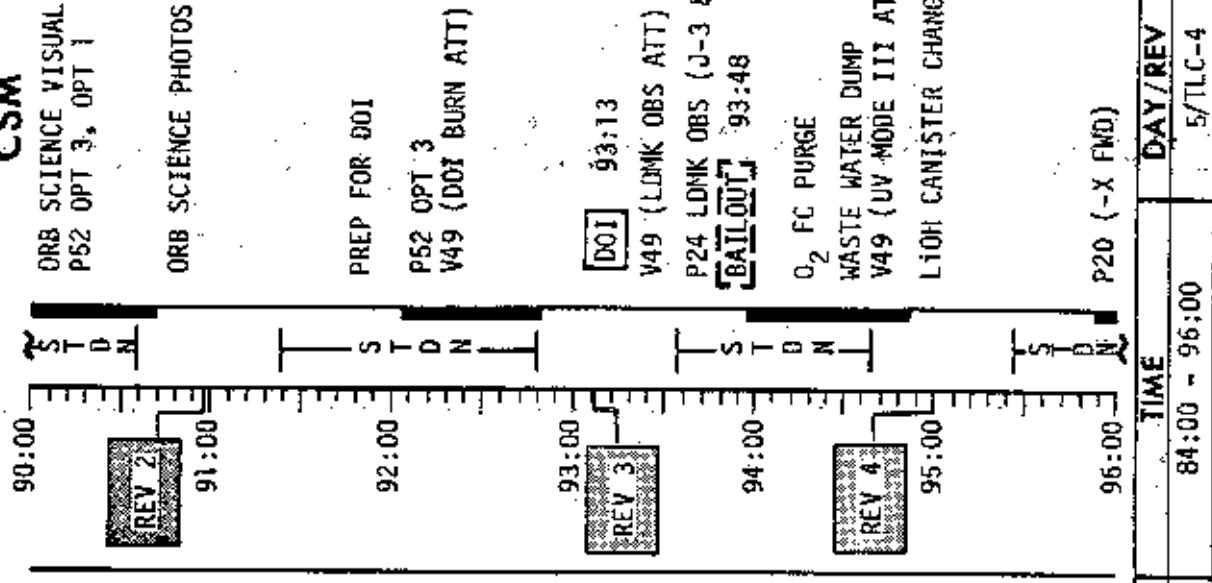
FLIGHT PLANNING BRANCH

FLIGHT PLAN

CSM



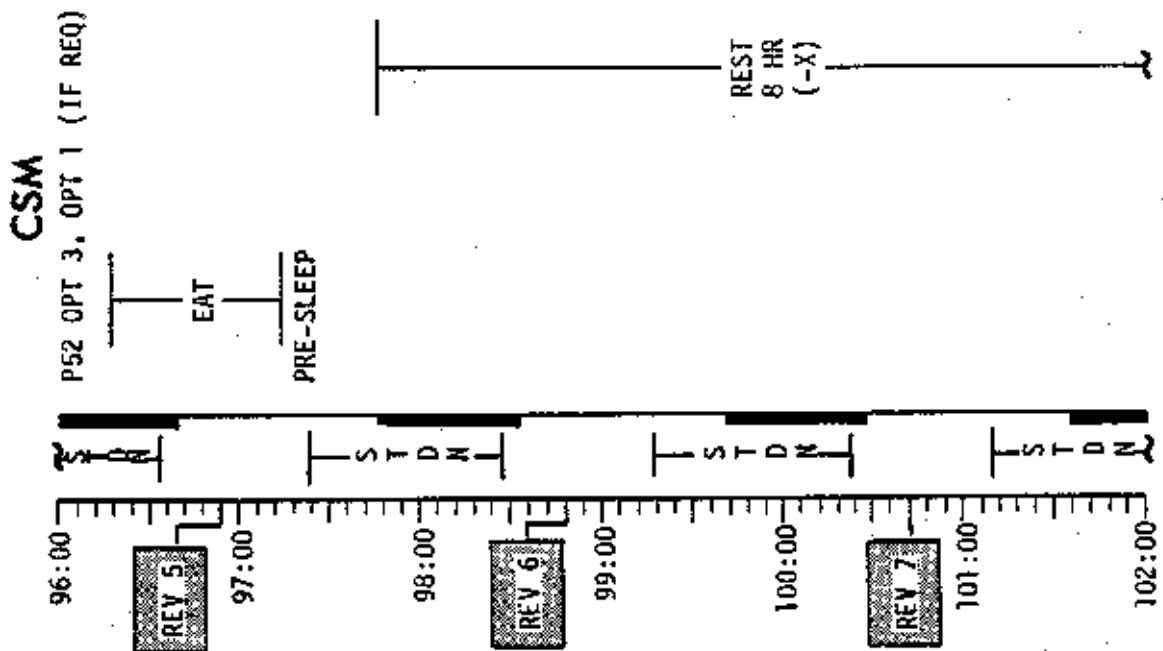
CSM



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	84:00 - 96:00	5/TLC-4	5-8

FLIGHT PLANNING BRANCH

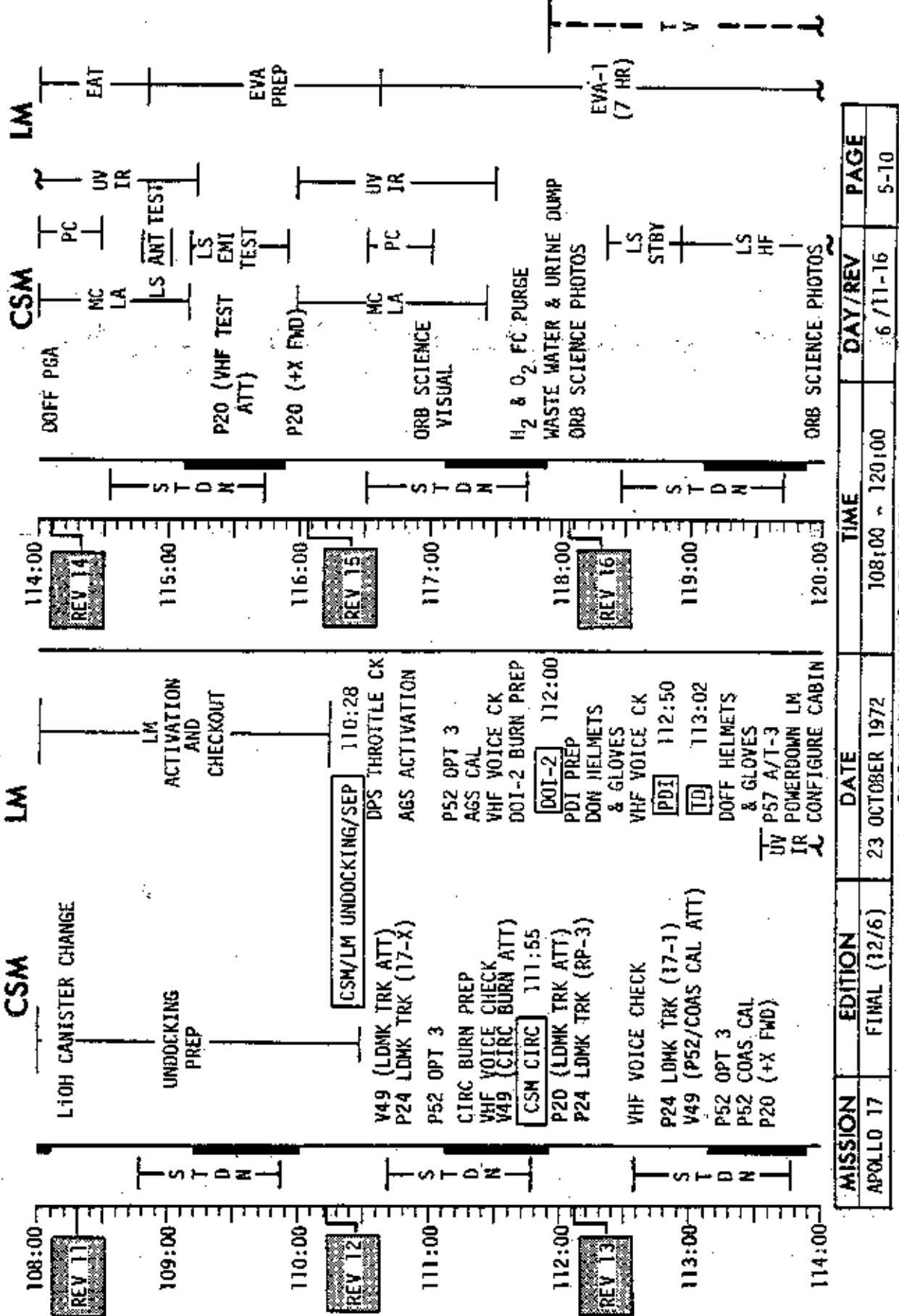
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	96:00 - 108:00	5-6/5-10	5-9

FLIGHT PLANNING BRANCH

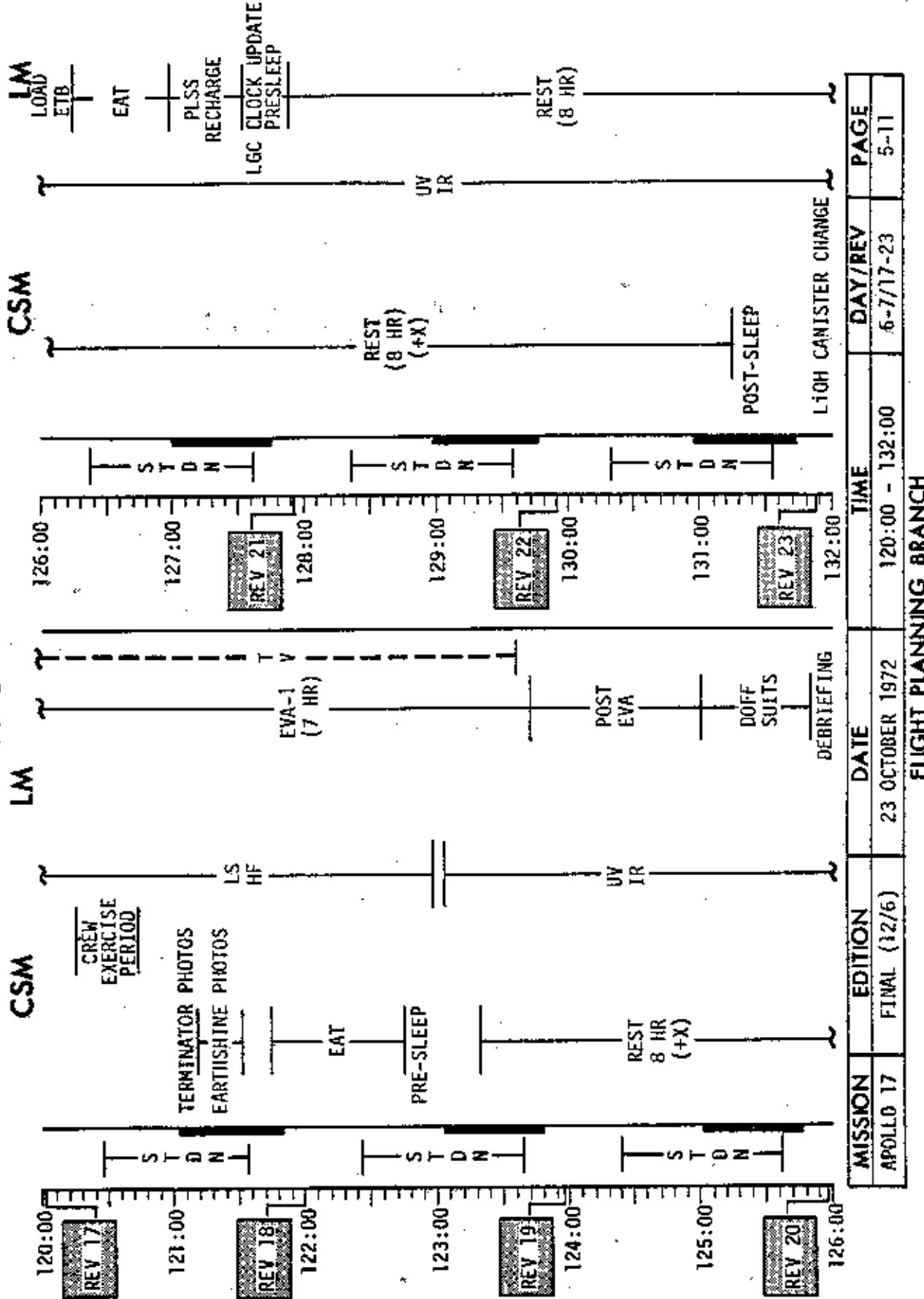
FLIGHT PLAN



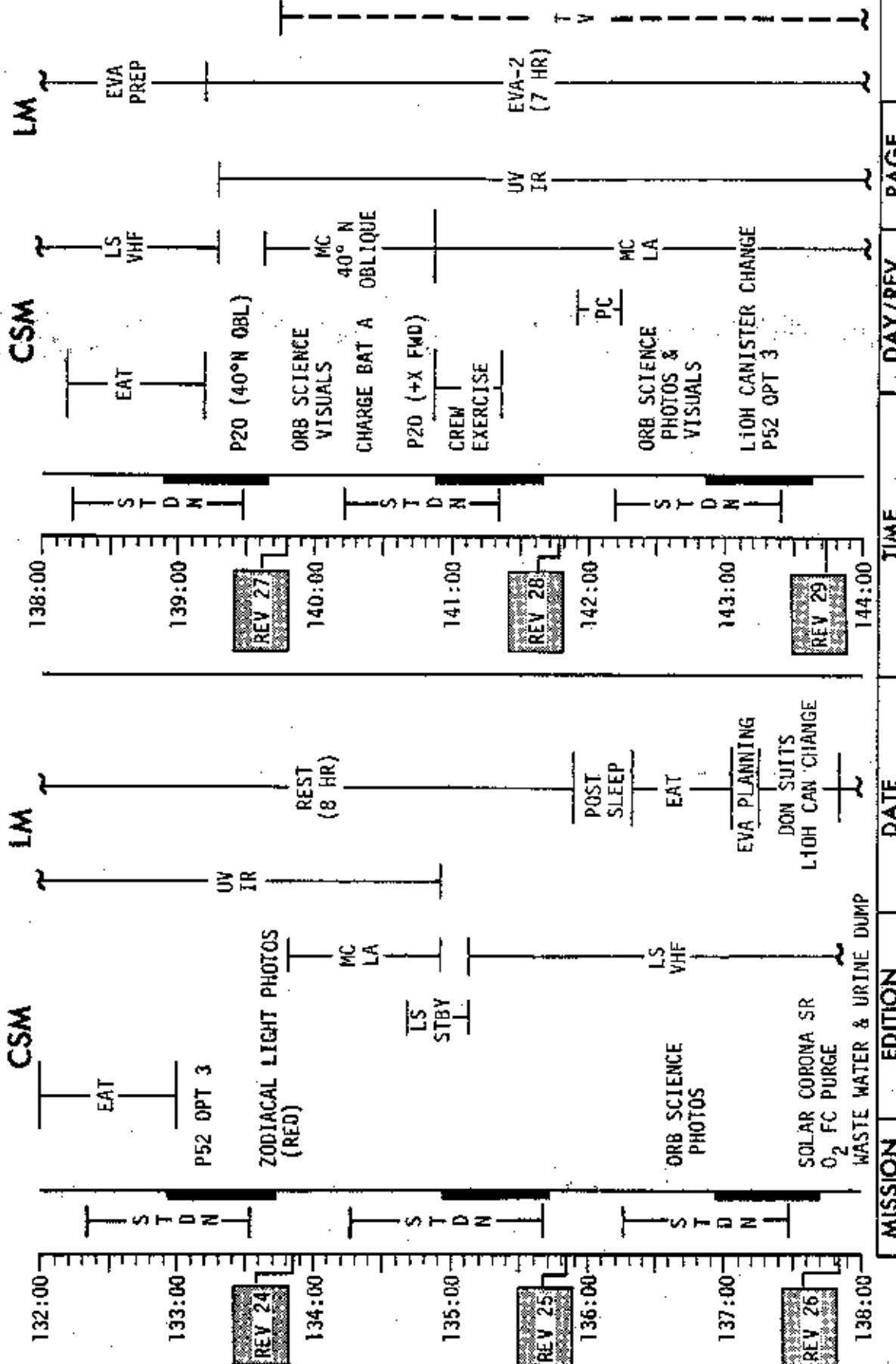
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	108:00 ~ 120:00	6 / 11-16	5-10

FLIGHT PLANNING BRANCH

FLIGHT PLAN



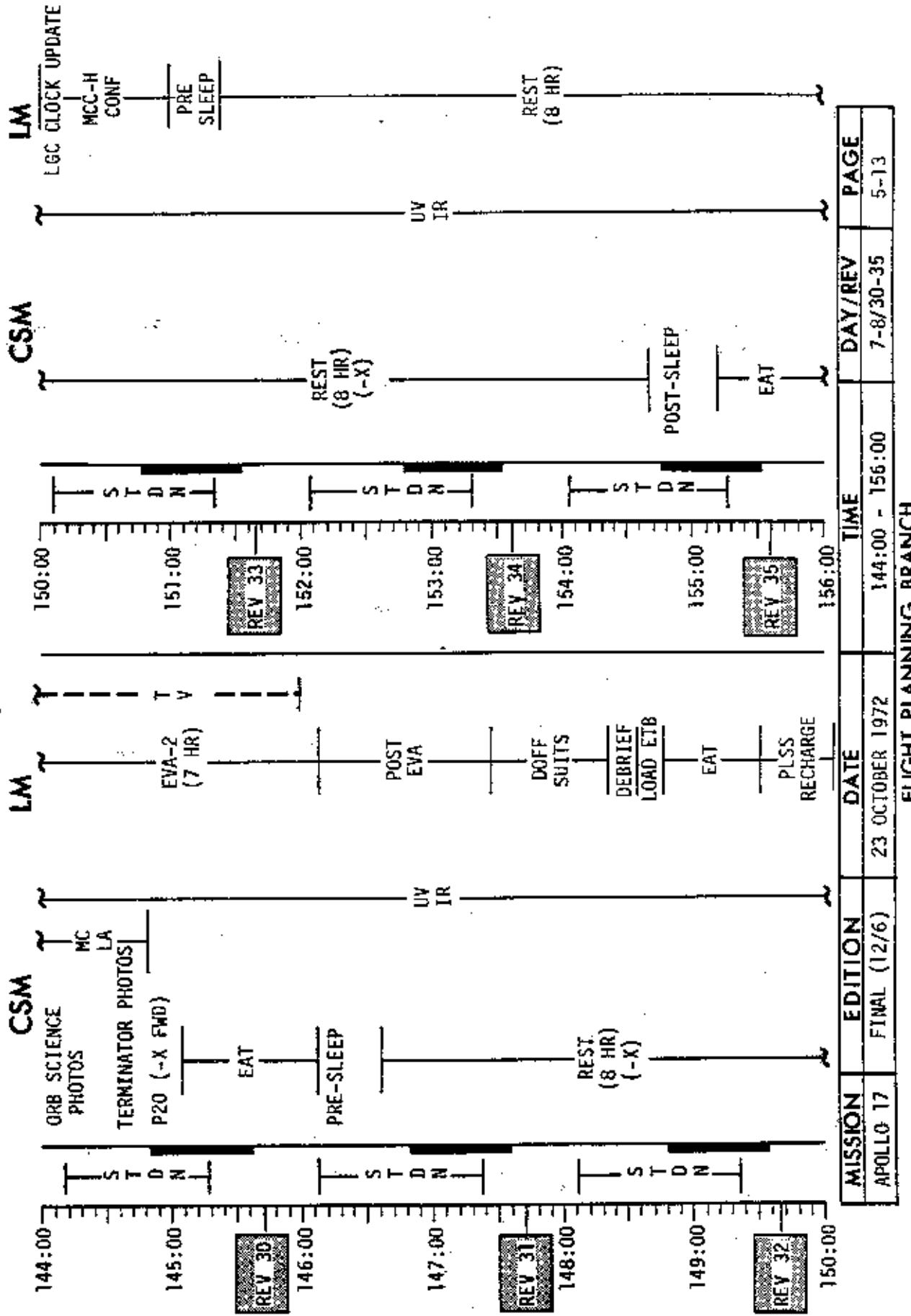
FLIGHT PLAN



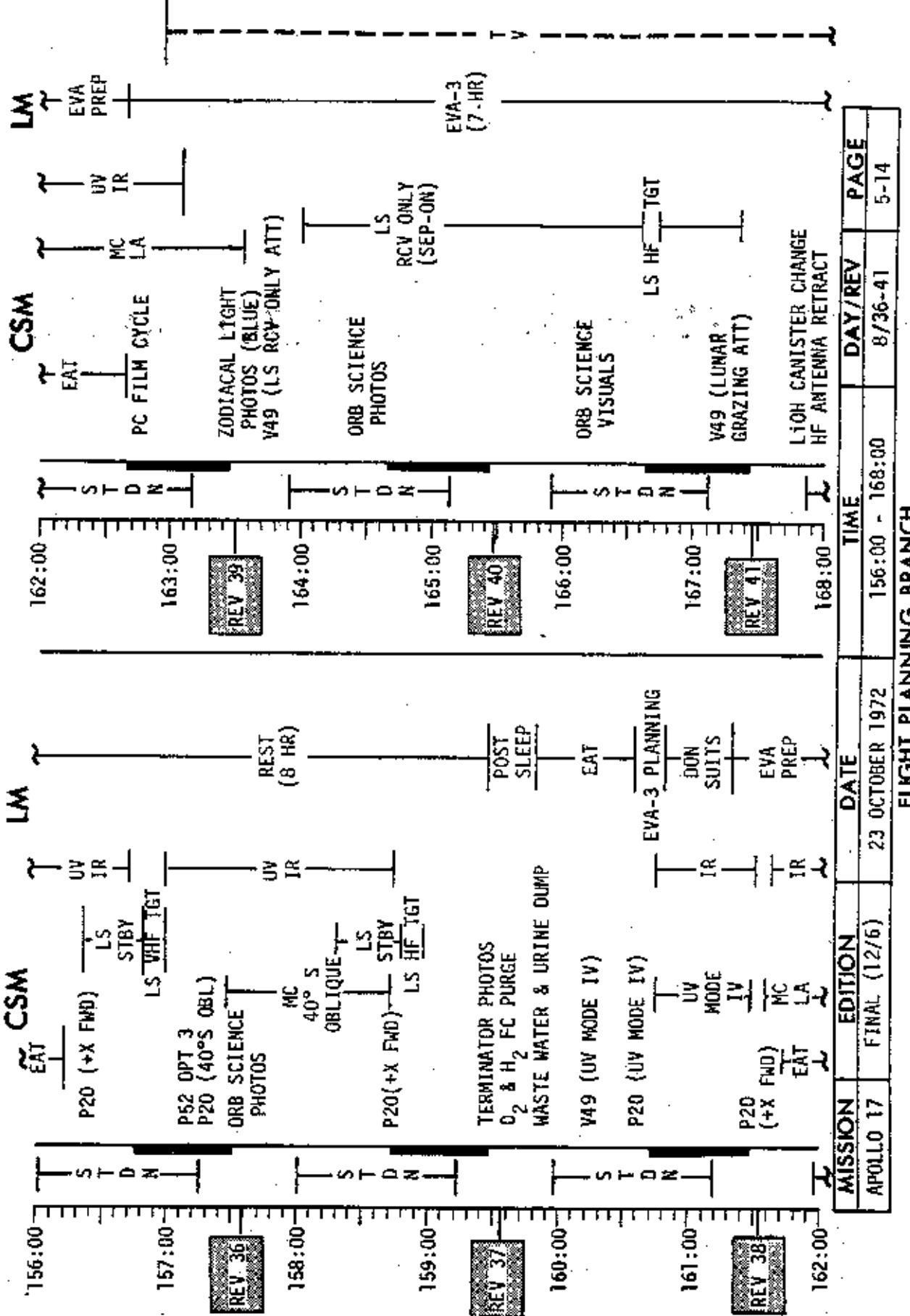
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	132:00 - 144:00	7/24-29	5-12

FLIGHT PLANNING BRANCH

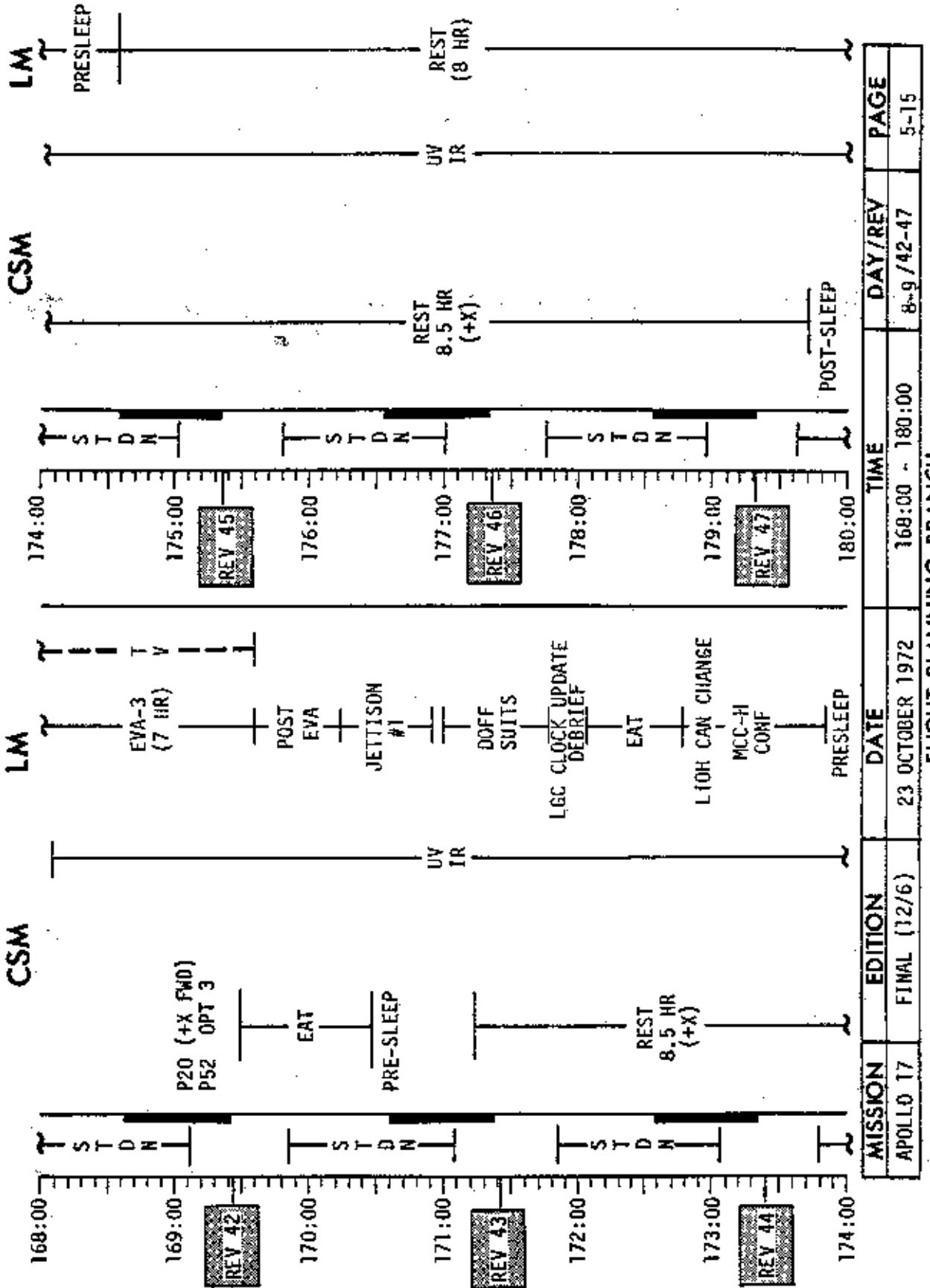
FLIGHT PLAN



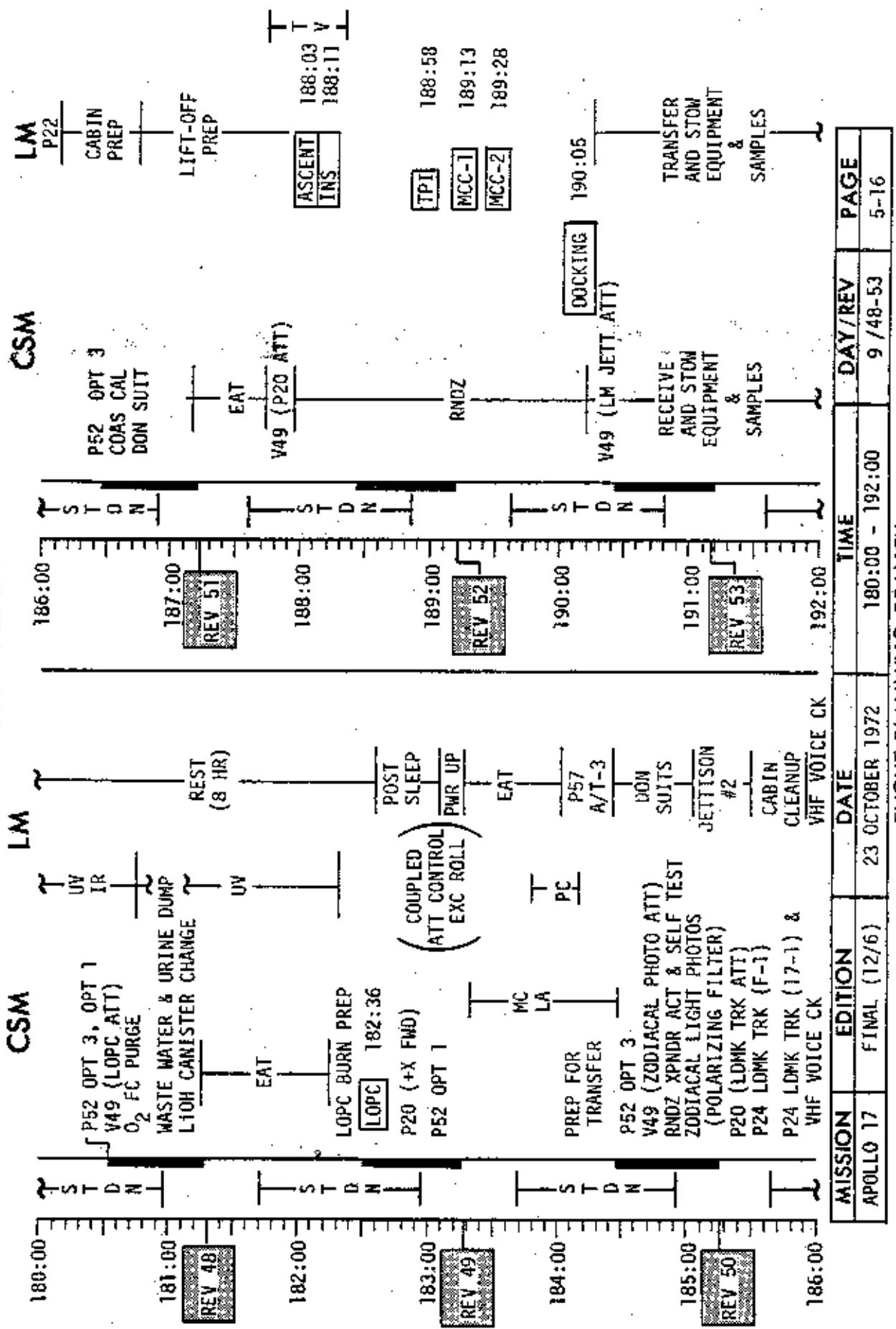
FLIGHT PLAN

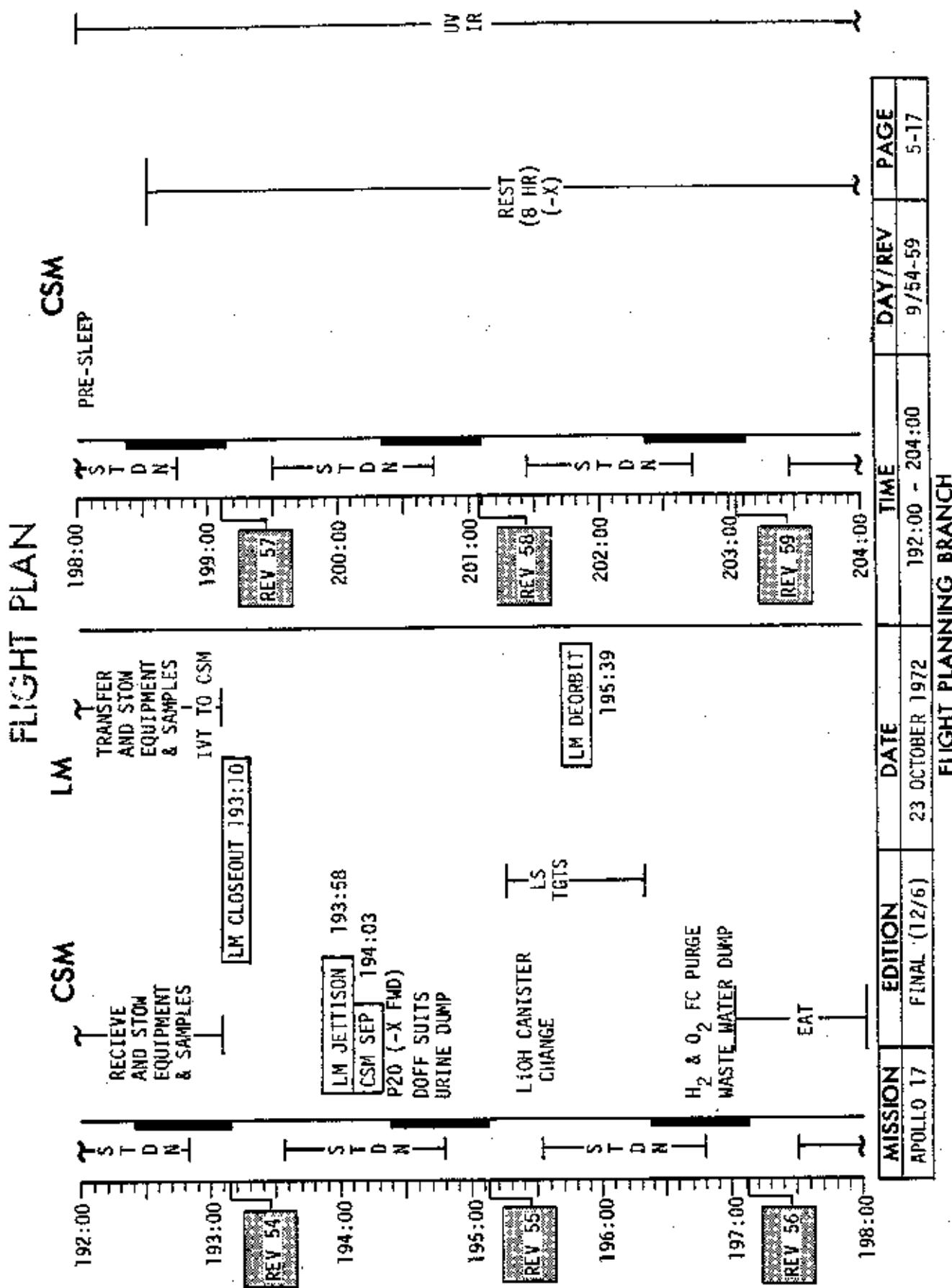


FLIGHT PLAN



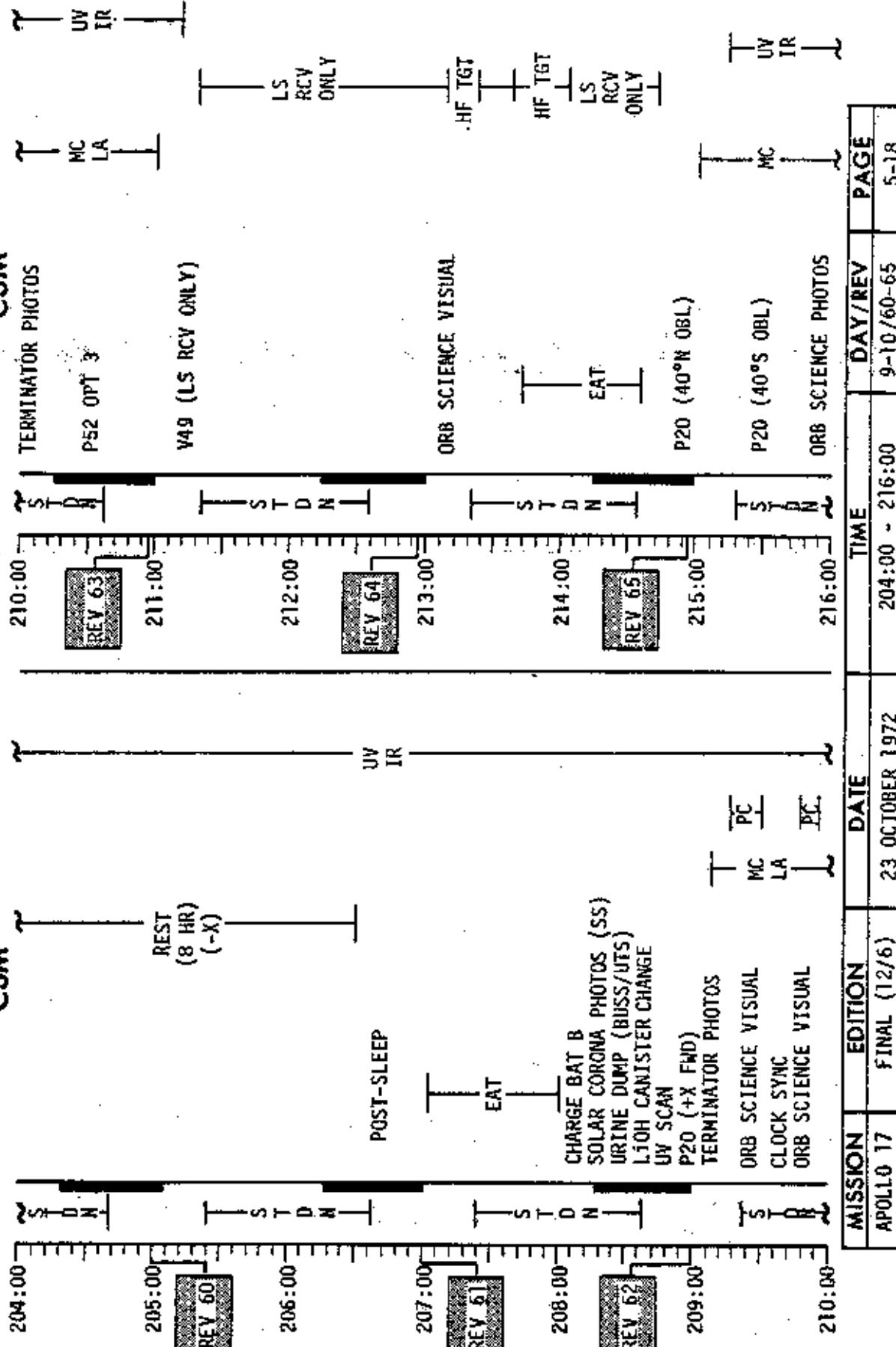
FLIGHT PLAN



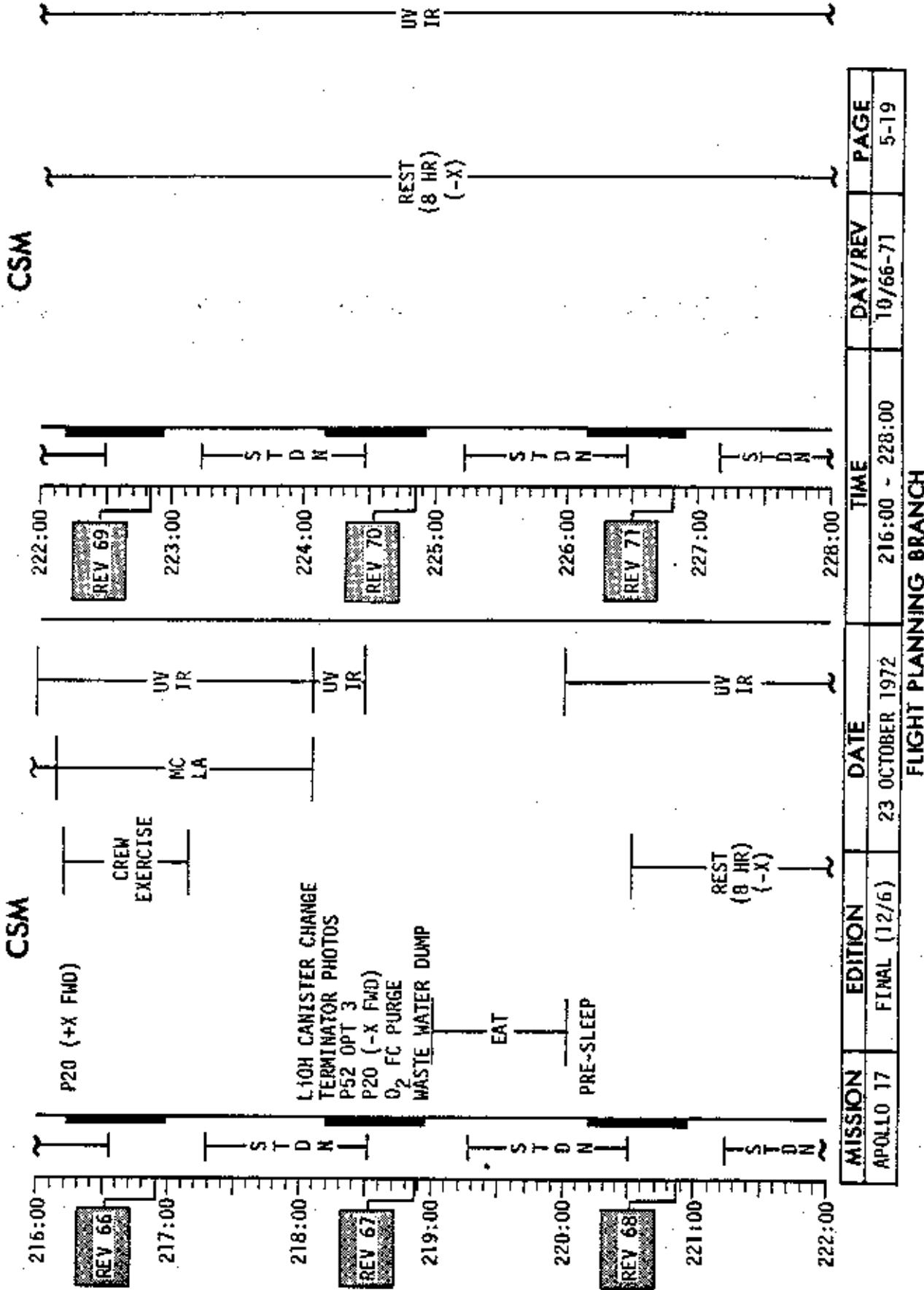


FLIGHT PLAN

CSM



FLIGHT PLAN



FLIGHT PLAN

CSM

228:00 REV 72
POST-SLEEP REST (-X)

EAT

229:00 P52 OPT 3
P20 (+X FWD)
H₂ & O₂ FC PURGE
WASTE WATER & URINE DUMP

LIOH CANISTER CHANGE

230:00 REV 73
EAT

LS STBY
LS TGT
LS RCV
ONLY
LS TGT

231:00 REV 74
EAT

LS TGT
UV
IR

232:00 REV 75
EAT

LS TGT
UV
IR

233:00 REV 76
EAT

LS TGT
UV
IR

234:00 REV 77
EAT

LS TGT
UV
IR

CSM

234:00 REV 75
EAT

P52 OPT 3, OPT 1
(COUPLED ATT CONTROL)
PRE-TEI CHECKS
V49 (TEI ATT)

235:00 REV 76
EAT

TEI
V49 (TV/COMM ATT)

236:00 REV 77
EAT

V49 (UV LY-g ATT)

237:00 REV 78
EAT

238:00 REV 79
EAT

239:00 REV 80
EAT

240:00 REV 81
EAT

P52 OPT 3, OPT 1
V49 (UV EARTH ATT)
(COUPLED ATT CONTROL
(EXC. ROLL)

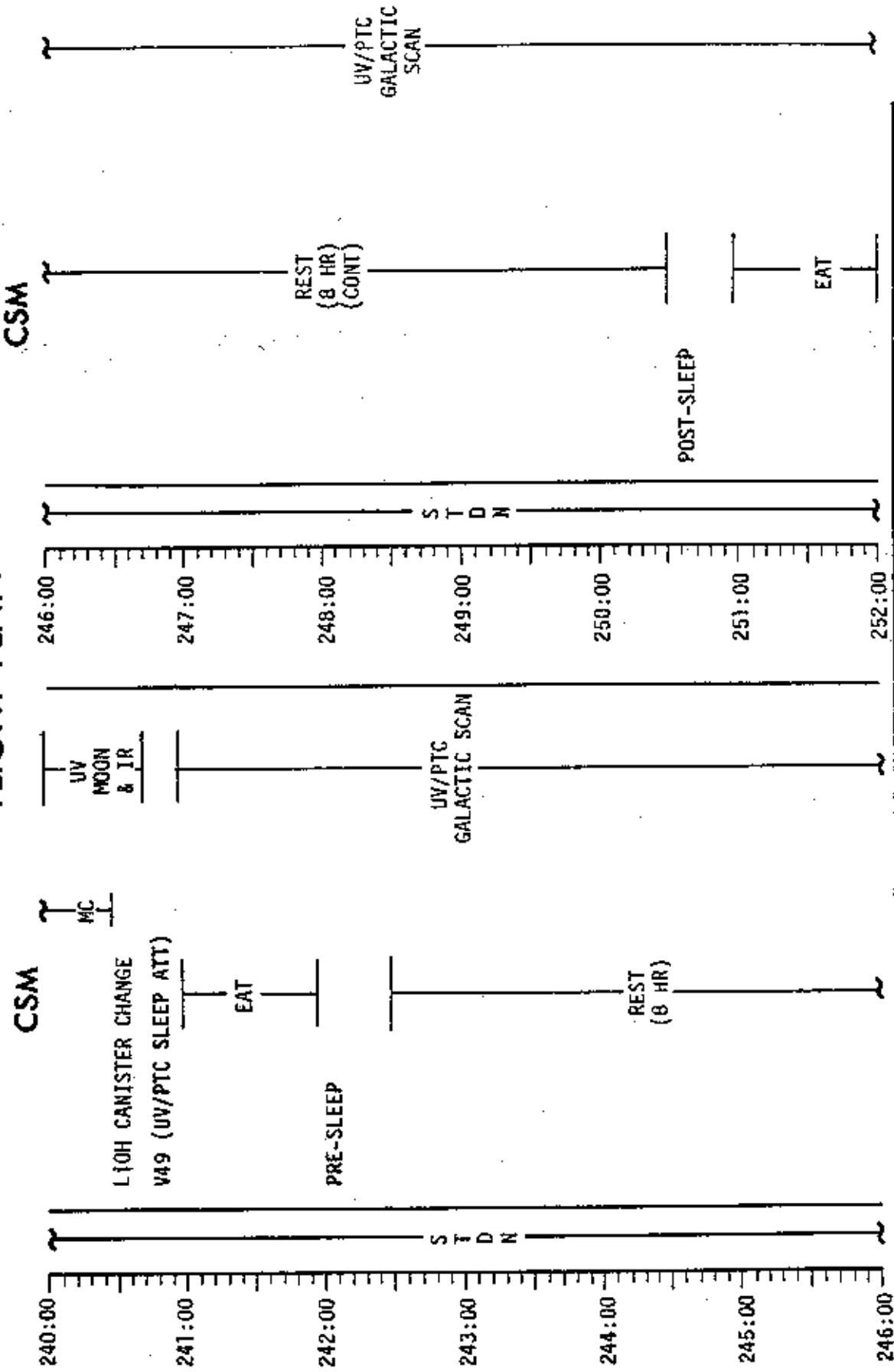
CREW EXERCISE

TERMINATOR PHOTOS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	228:00 - 240:00	10-11 / 72-TEC	5-20

FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	240:00 - 252:00	11-12/TEC	5-21

FLIGHT PLAN

CSM

252:00 P52 OPT 3
 LION CANISTER CHANGE
 V49 (MCC-5 BURN ATT)
 O₂ FC PURGE
 WASTE WATER & URINE DUMP
 MCC-5 253:40 CABIN PREP FOR CM EVA
 UV/PTC
 254:00 TV & DAC PREP
 EVA EQUIP PREP
 S T N
 255:00 DOW SUITS
 256:00 V49 (EVA ATT)
 PRESS GAGE STATIC CHECK
 COMM CHECK
 SYS PREP FOR DEPRESS
 CMP EVA EQUIP PREP
 OPS DONNING
 CDR/LMP INTEGRITY CHECK
 CABIN DEPRESS & HATCH OPENING
 INSTALL TV/DAC
 RETRIEVE LUNAR SOUNDER CASSETTE
 RETRIEVE PAN CAMERA CASSETTE
 T Y

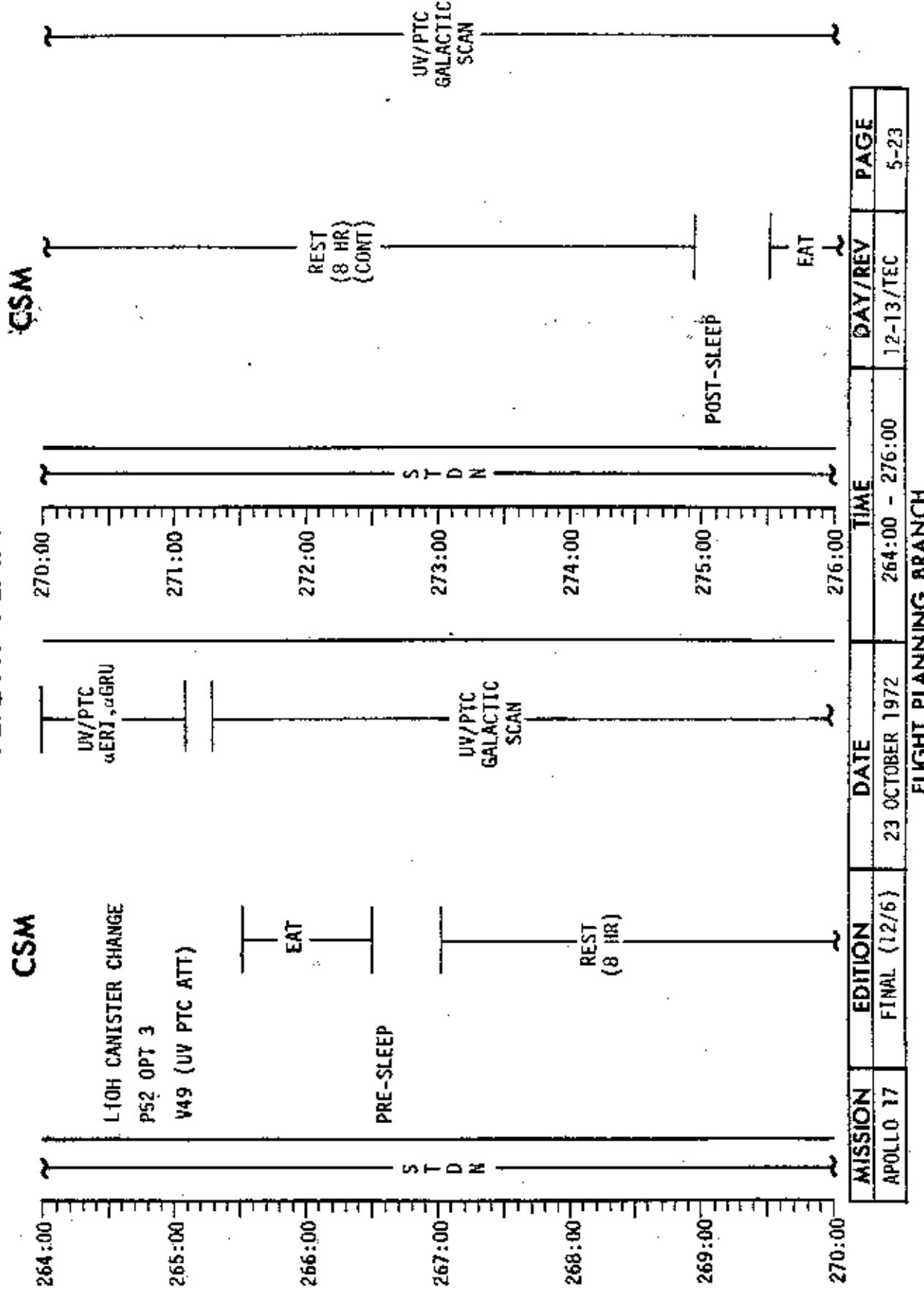
CSM

258:00 RETRIEVE MAPPING CAMERA CASSETTE
 INGRESS & HATCH CLOSING
 CM POST EVA
 POST EVA PROCEDURES
 CLEANUP PROCEDURES
 DOFF SUITS
 STOW EQUIP
 UV COMA CLUSTER ATT
 EAT
 S T D N
 260:00 V49 (UV COMA CLUSTER ATT)
 261:00 V49 (UV STELLAR CAL ATT)
 (60 x 14)
 262:00 V49 (UV STELLAR CAL ATT)
 (60 x 60)
 263:00 V49 (UV aERI ATT) CREW EXERCISE
 264:00 V49 (UV/PIC aERI, uGRU)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	252:00 - 264:00	12 /TEC	5-22

FLIGHT PLANNING BRANCH

FLIGHT PLAN



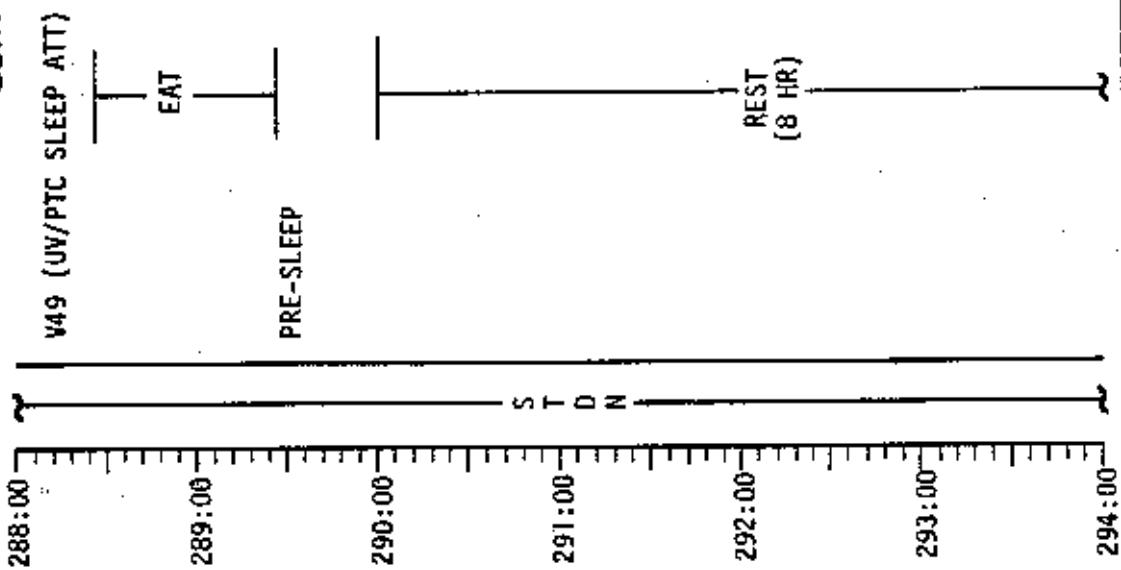
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	264:00 - 276:00	12-13 / TEC	5-23

FLIGHT PLAN

CSM
3

FLIGHT PLAN

CSM



CSM

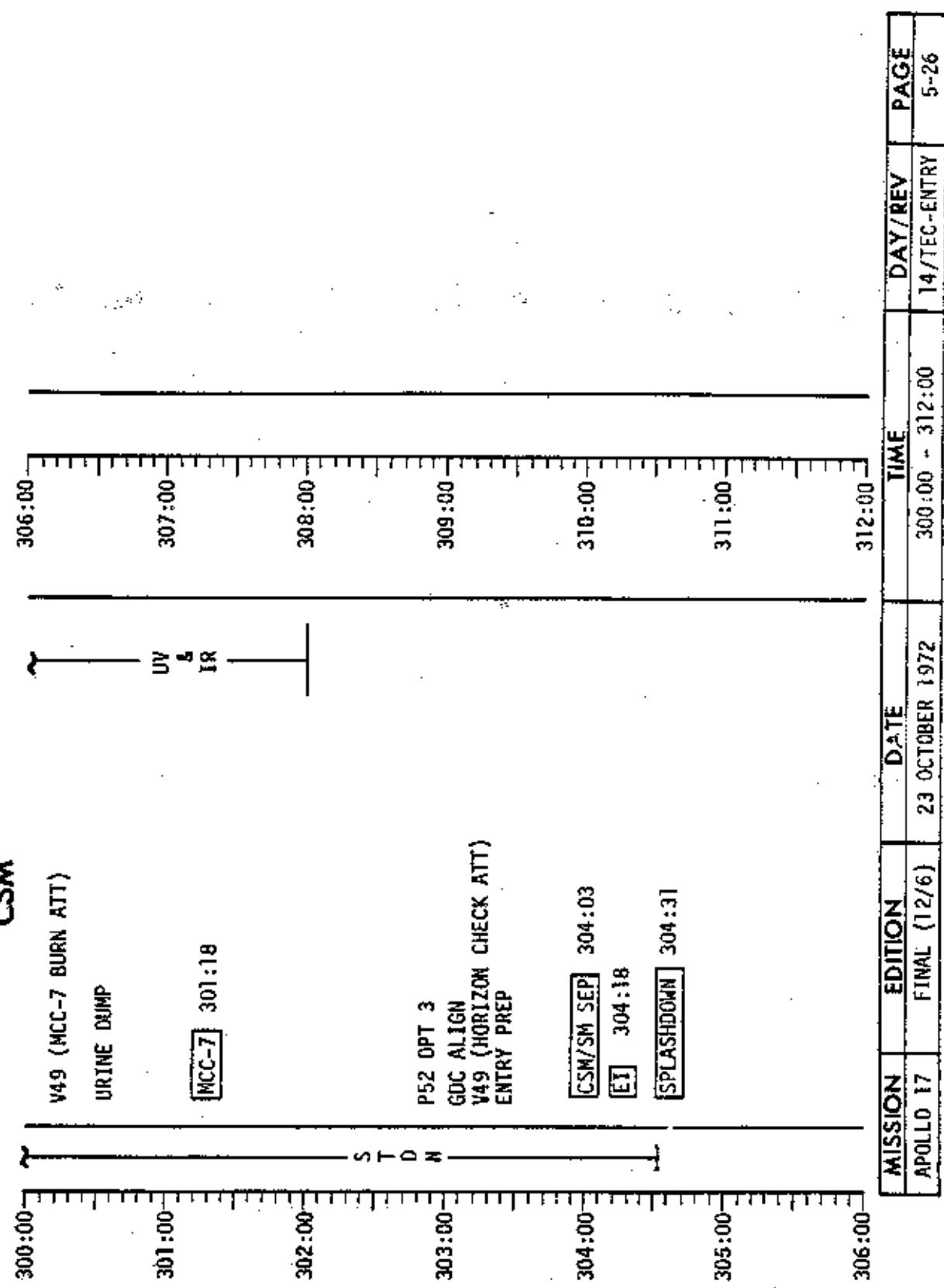
UV/PTC
GALACTIC
SCAN

UV & IR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	288:00 - 300:00	13-14/TEC	5-25

FLIGHT PLAN

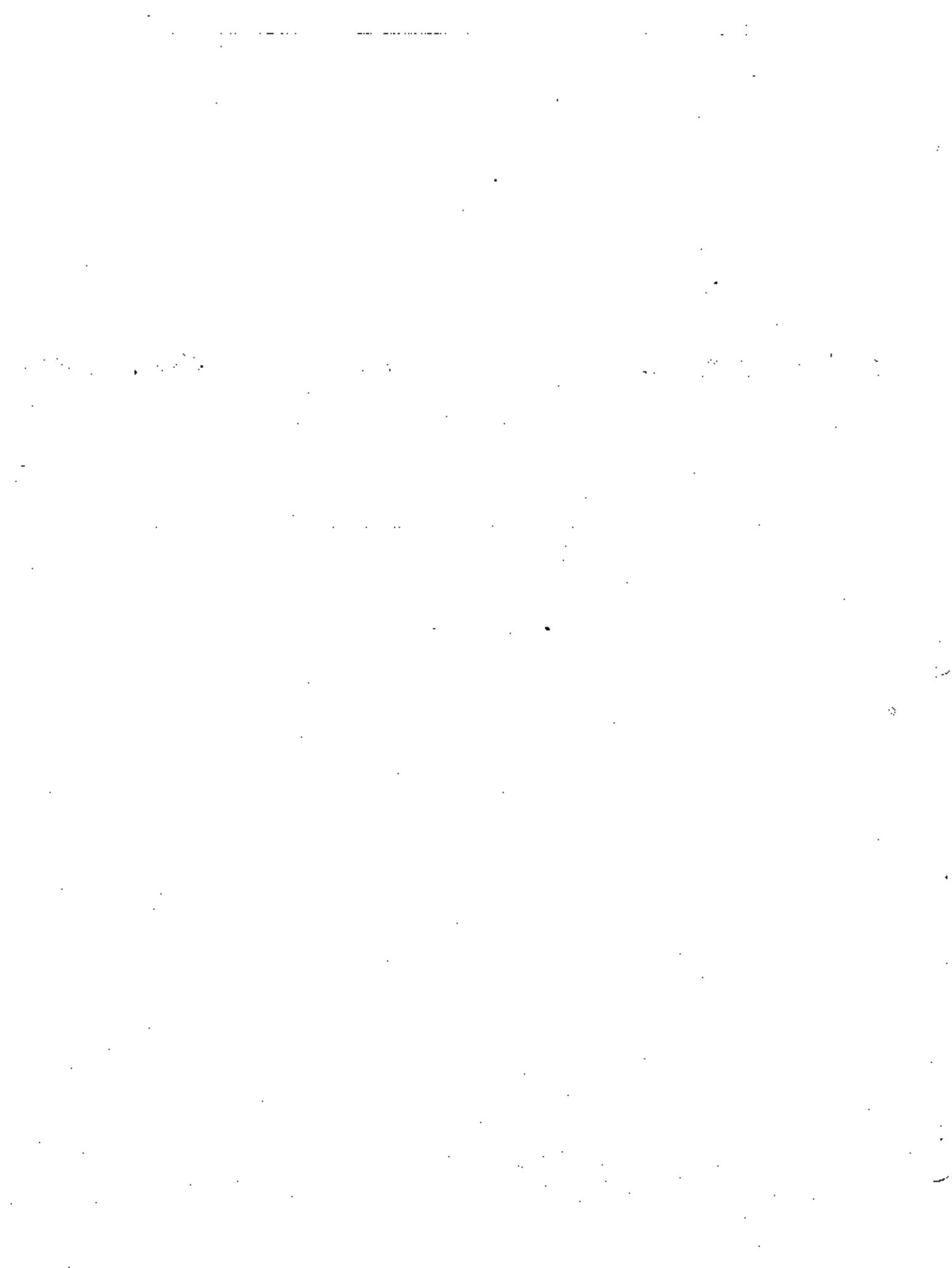
CSM



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	300:00 - 312:00	14 / TEC-ENTRY	5-26

FLIGHT PLANNING BRANCH

SECTION 6 - ALTERNATE MISSION SUMMARIES



EARTH ORBIT ALTERNATE MISSION

Assumptions

- 1) A SAFE insertion orbit has been achieved by the S-IVB.
- 2) A systems failure has resulted in a NO/GO for TLI.

CONSTRAINTS

- 1) Maintain SM-RCS deorbit capability
- 2) Photography in the southern hemisphere
- 3) LM to be jettisoned for water impact.

Sequence of Events

This alternate mission is initiated by a systems failure which will not allow TLI. The alternate mission timeline is entered at the nominal time of TLI and allows for a failure checkout period followed by a possible second TLI opportunity. If the second TLI is not performed, the CSM executes TD&E and prepares the LM for an ocean impact. The CSM executes five SPS burns to position itself for photographic coverage of the Southern Hemisphere with an inclination of forty-five degrees.

All the Sim Bay experiments are activated, except for the IR Radiometer, and an EVA is planned to retrieve the film canisters. The timeline indicates that Lunar sounder operations is continuous but these will be broken into passes of approximately five minutes each when specific targets are chosen. At that time additional UV passes will be scheduled for Mode IV, lunar surface albedo, and galactic targets. The DSE will be managed such that data will be recorded during the daytime and dumped to STDN during the crew sleep periods when possible.

The mission is open ended but for flight planning purposes, a seven-day mission is planned.

6-2

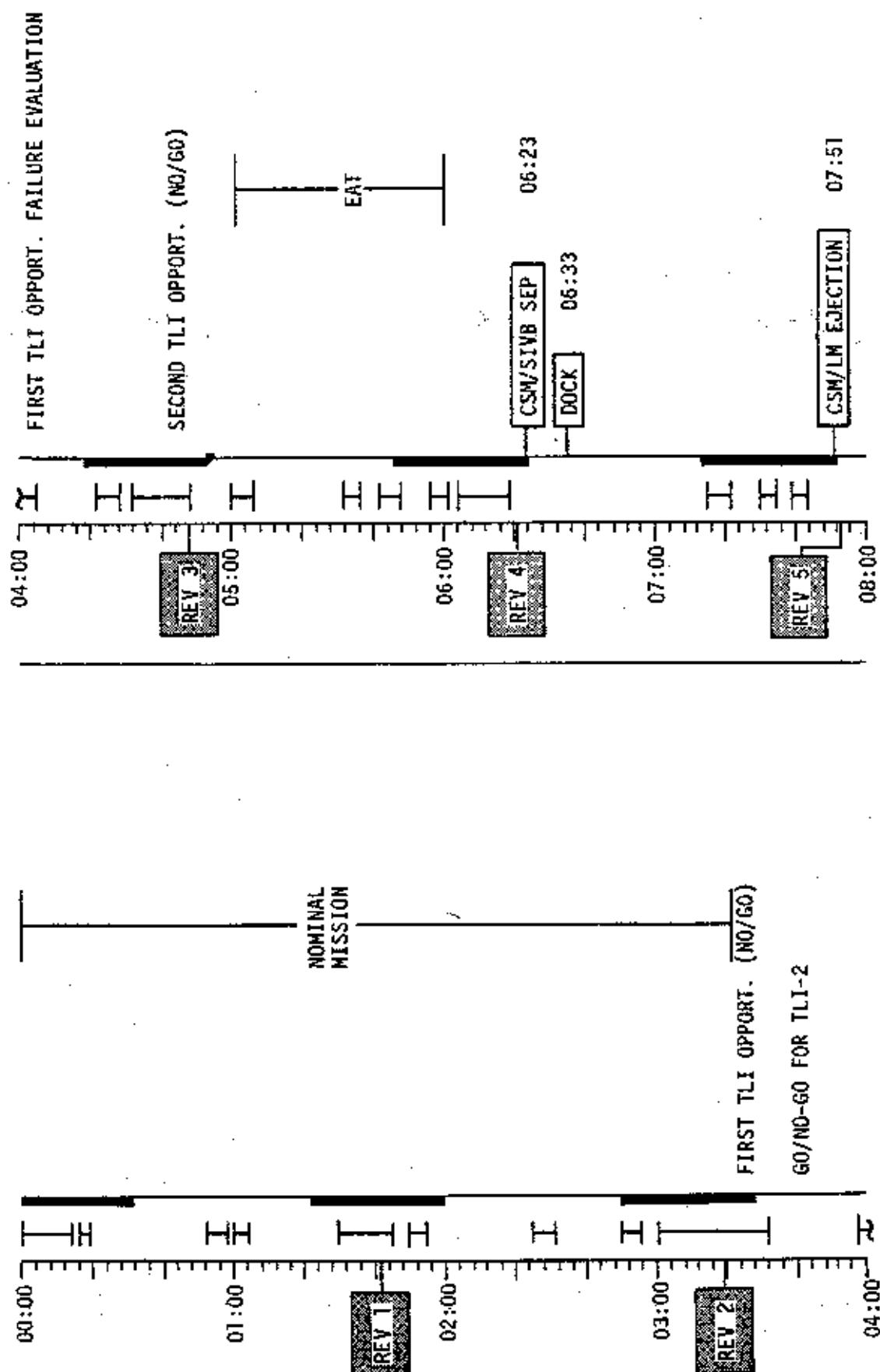
10/23/72

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FLIGHT PLAN

2053 CST

EARTH ALTERNATE



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	00:00 - 08:00	1/1-5	6-3

FLIGHT PLAN

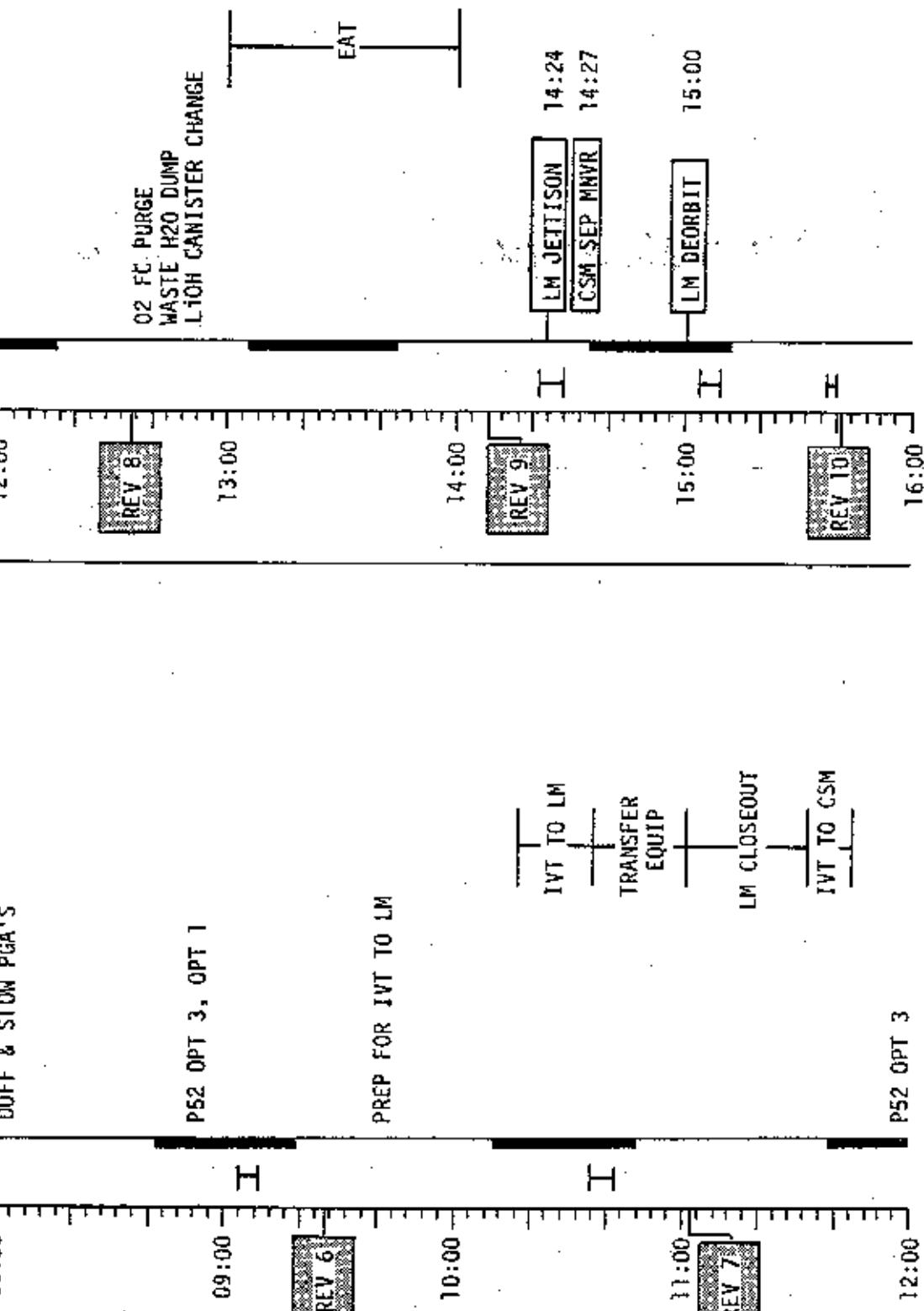
EARTH ALTERNATE

0453 CST

08:00

DOFF & STOW PGA'S

12:00



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	08:00 - 16:00	1/5-10	6-4

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE

1253 CST

16:00

REV 11

17:00

REV 12

18:00

REST
8 HR

20:00

REV 13

21:00

REV 14

22:00

REV 15

23:00

24:00

REST
8 HR

16:00 - 24:00

1/10-15

6-5

MISSION EDITION DATE

TIME

DAY / REV

PAGE

APOLLO 17 FINAL (12/6)

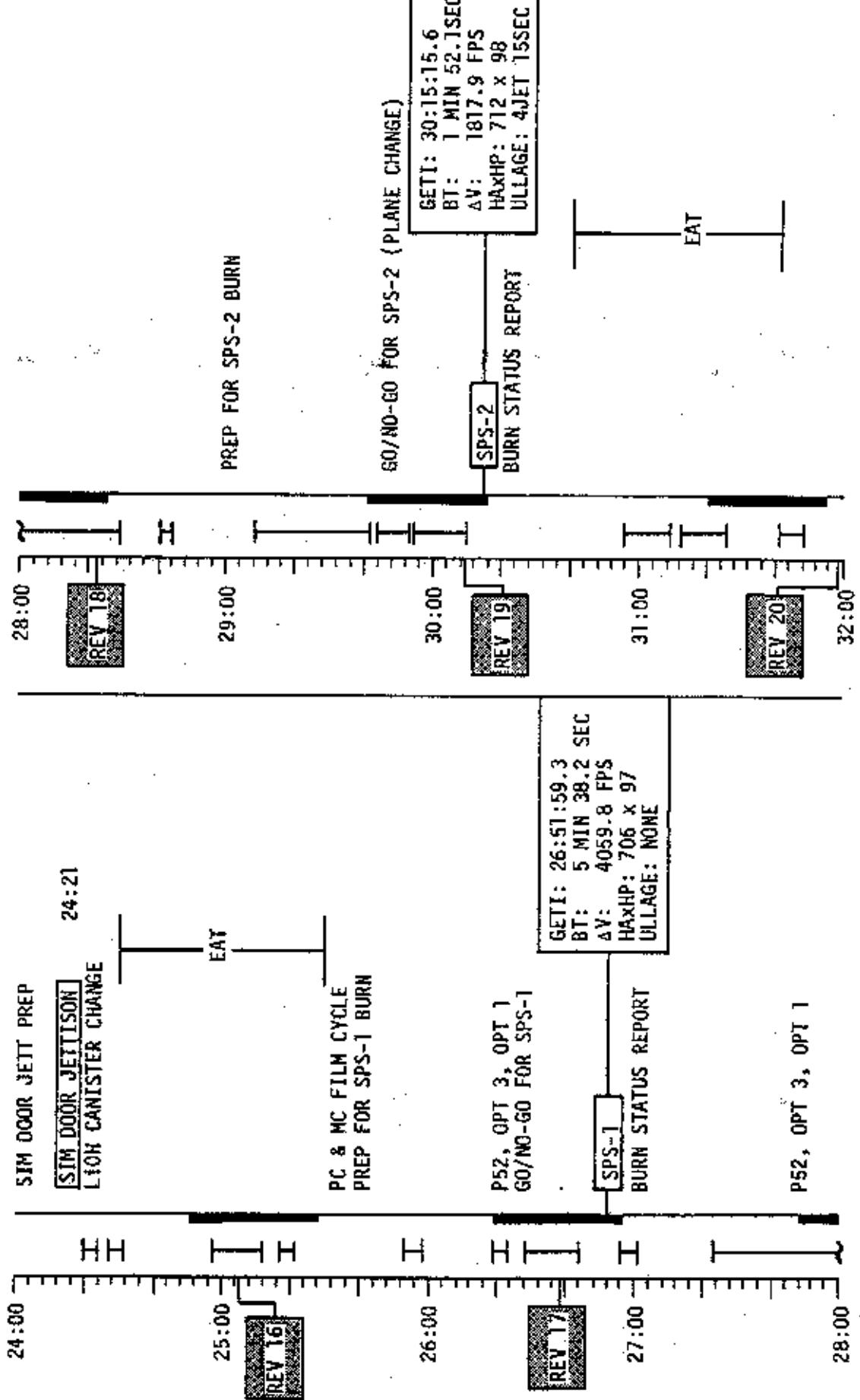
10/23/72

FLIGHT PLANNING BRANCH

EARTH ALTERNATE

FLIGHT PLAN

2053 CST



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	24:00 - 32:00	2/15-20	6-6

FLIGHT PLAN

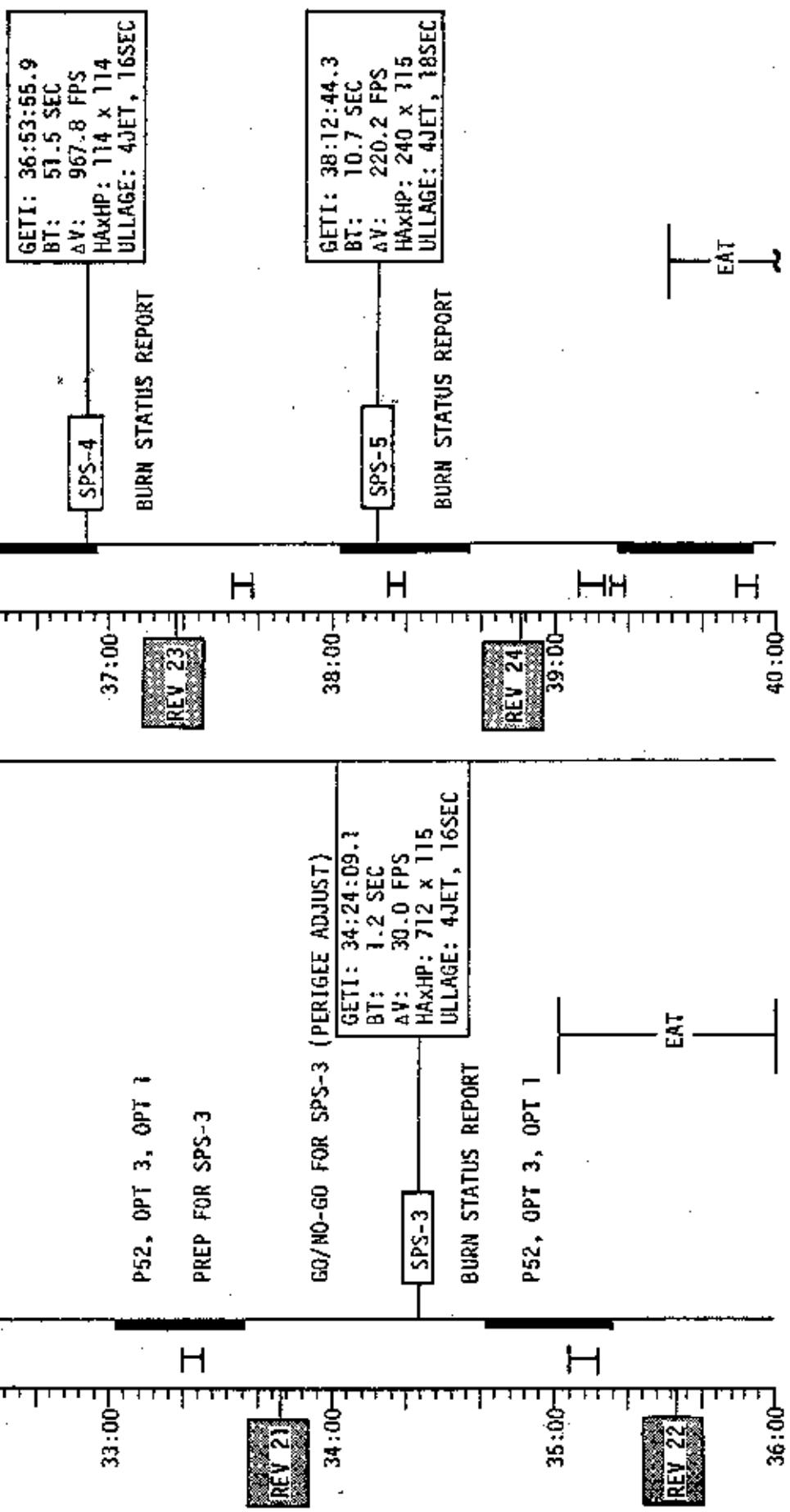
EARTH ALTERNATE

0453 CST

CREW EXERCISE

32:00

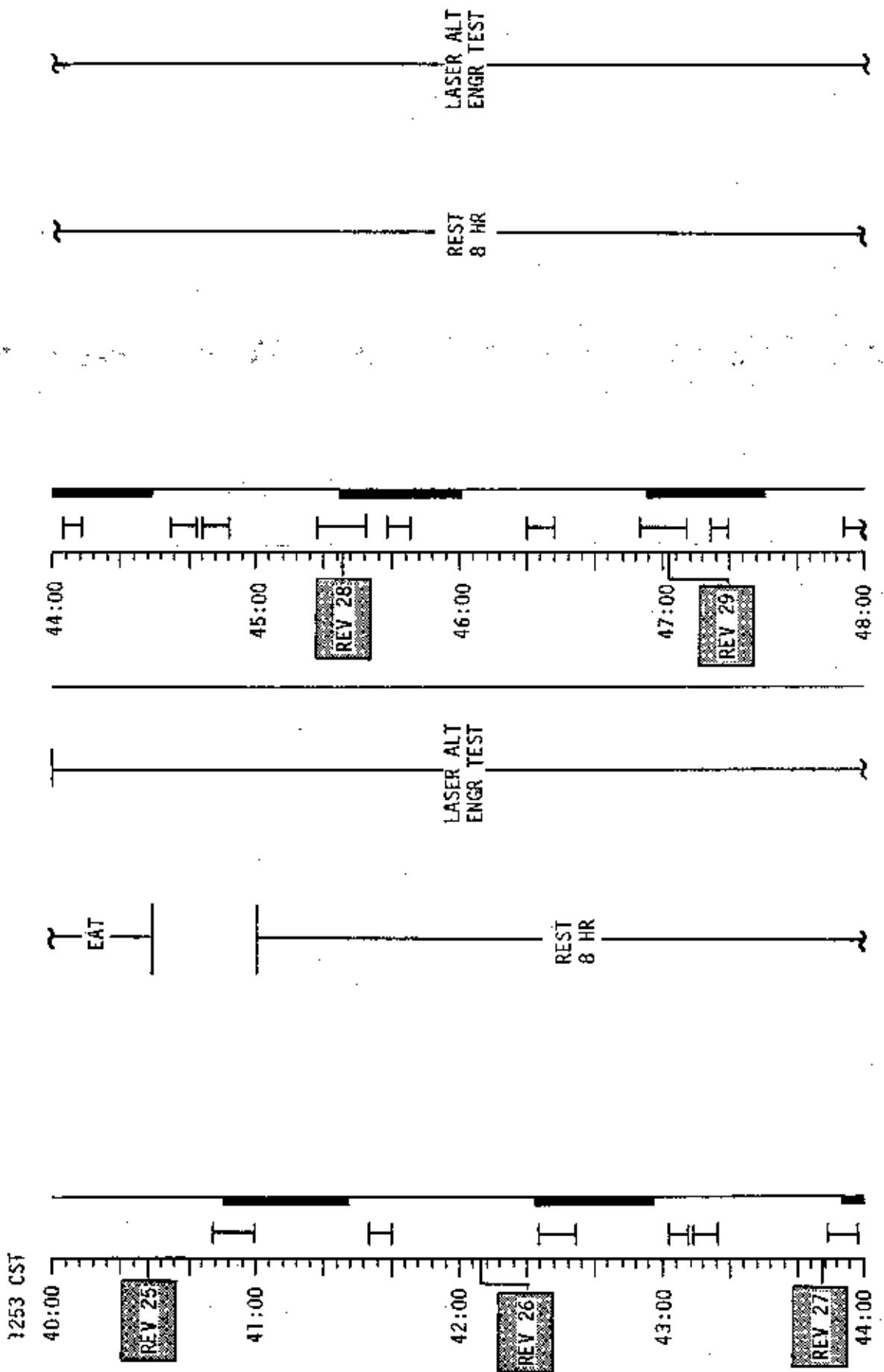
O2 & H2 FC PURGE
WASTE H2O DUMP
LIQUID CANISTER CHANGE



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	32:00 - 40:00	2/20-24	6-7

EARTH ALTERNATE

FLIGHT PLAN

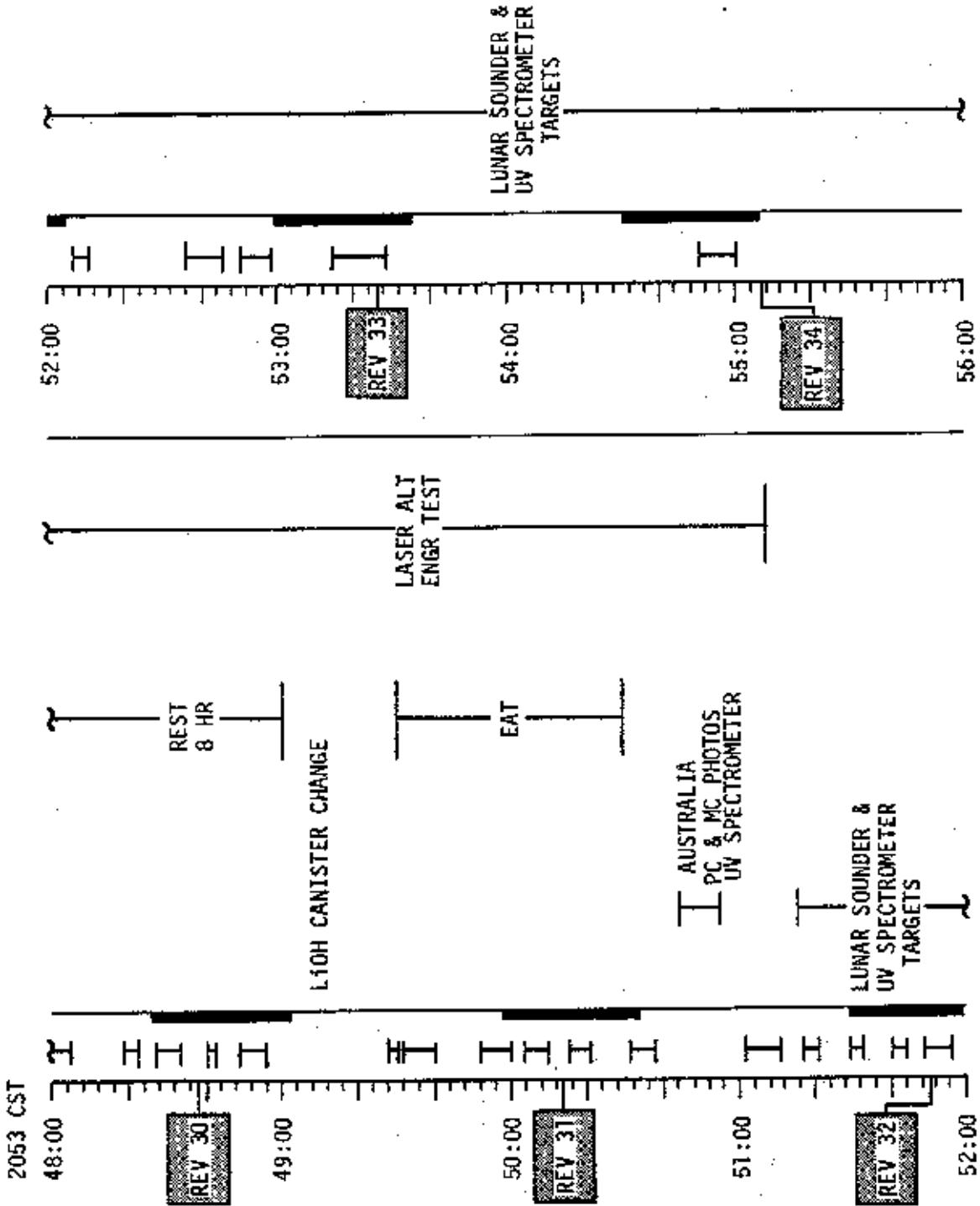


MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	40:00 - 48:00	2/25-29	6-8

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
Apollo 17	FINAL (12/6)	10/23/72	48:00 - 56:00	3/30-34	6-9

FLIGHT PLAN

EARTH ALTERNATE

0453 CST

█ LUNAR SOUNDER &
UV SPECTROMETER
TARGETS

60:00

█ SOUTH AMER.
PC & MC PHOTOS
UV SPECTROMETER

█ LUNAR SOUNDER
DE OLIVARI'S (CHILI)
AFRICA
PC & MC PHOTOS
UV SPECTROMETER

61:00

█ LUNAR SOUNDER &
UV SPECTROMETER
TARGETS

REV 38

█ LUNAR SOUNDER &
UV SPECTROMETER
TARGETS

62:00

█ LUNAR SOUNDER &
UV SPECTROMETER

TARGETS

63:00

█ SOUTH AMER.
PC & MC PHOTOS
UV SPECTROMETER

LIOH CANISTER CHANGE

REV 39

█ AFRICA
PC & MC PHOTOS
UV SPECTROMETER

64:00

█ SOUTH AMERICA
DZHUNGARSKY (USSR) VHF
PC & MC PHOTOS
UV SPECTROMETER

█ O2 & H2 FC PURGE
WASTE H2O DUMP

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	56:00 - 64:00	3/35-39	6-10

FLIGHT PLANNING BRANCH

EARTH ALTERNATE

FLIGHT PLAN

1253 CST

64:00

REV 40

65:00

EAT

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REV 41

66:00

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REV 42

67:00

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68:00

REV 42

68:00

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REV 43

69:00

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70:00

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REV 44

71:00

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72:00

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73:00

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74:00

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REST
8 HR

MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	64:00 - 72:00	3/40-44	6-11

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE

2053 CST

72:00

76:00

77:00

78:00

LUNAR SOUNDER - VHF
COLLIER, ORE.

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REV 45

REV 46

REV 47

REST
8 HR

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REV 48

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LION CANISTER CHANGE

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REV 49

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REV 50

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REV 51

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REV 52

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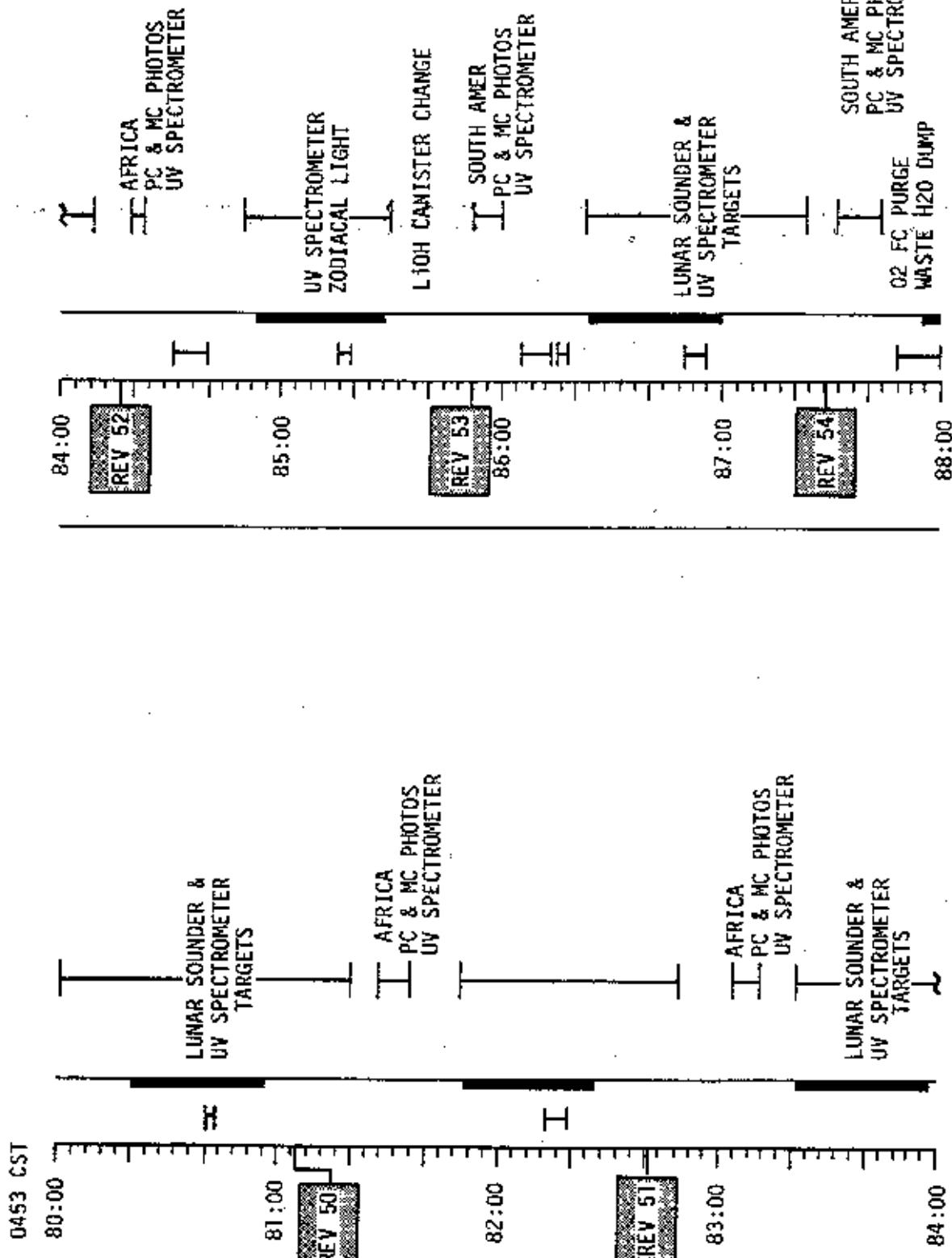
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MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	72:00 - 80:00	4/45-49	6-12

FLIGHT PLANNING BRANCH

EARTH ALTERNATE

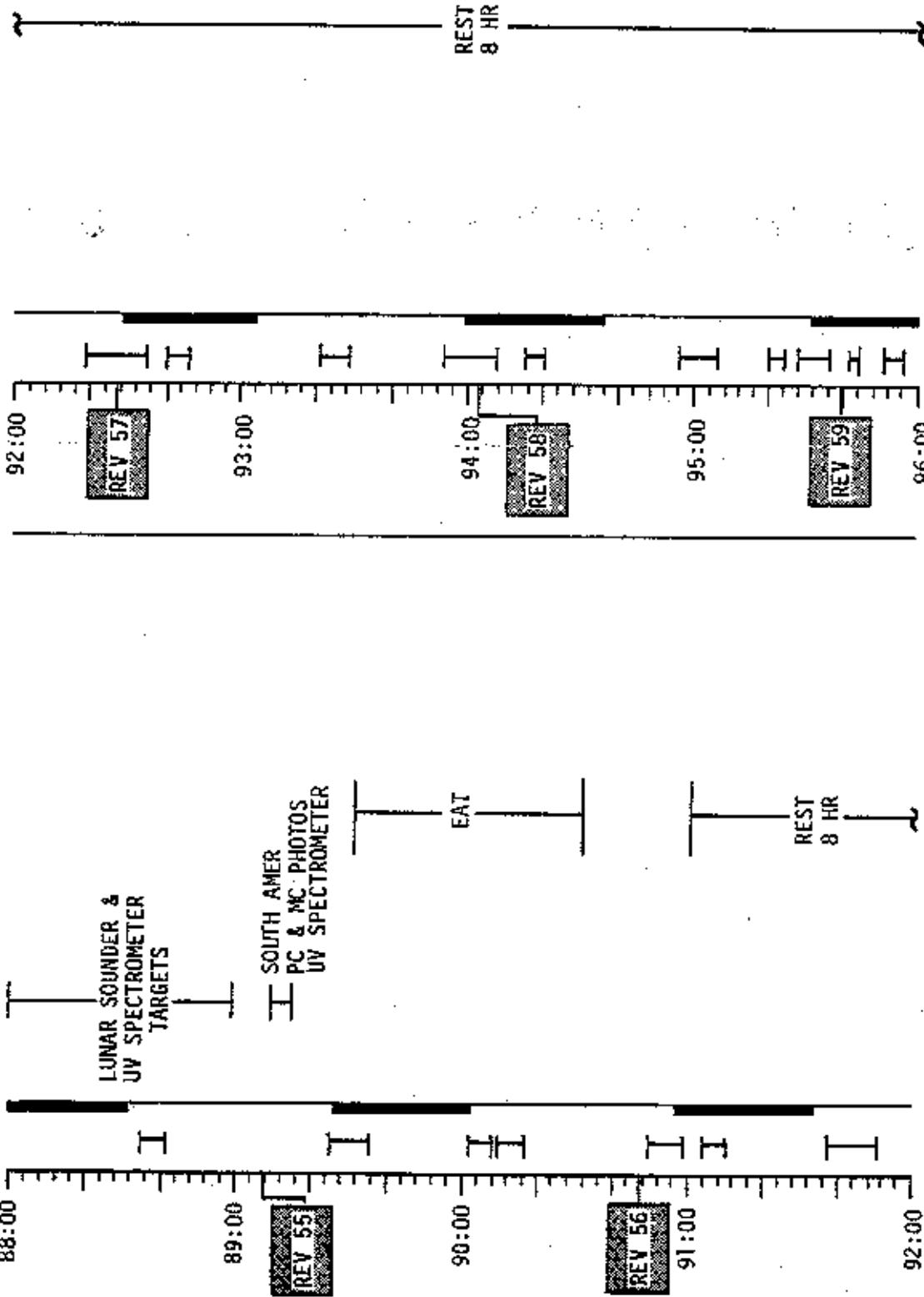
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	80:00 - 88:00	4/50-54	6-13

FLIGHT PLAN

EARTH ALTERNATE



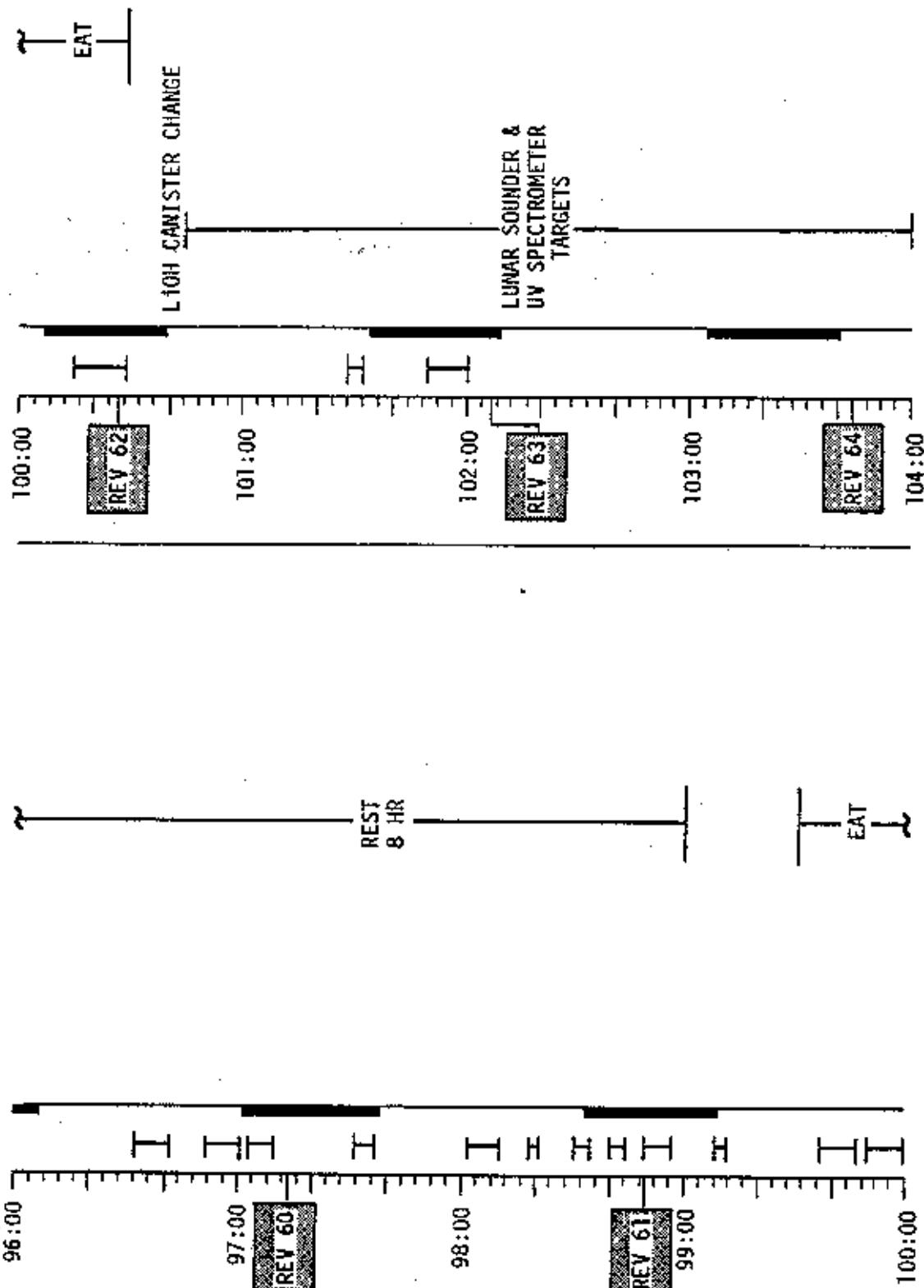
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	88:00 - 96:00	4/55-59	6-14

FLIGHT PLANNING BRANCH

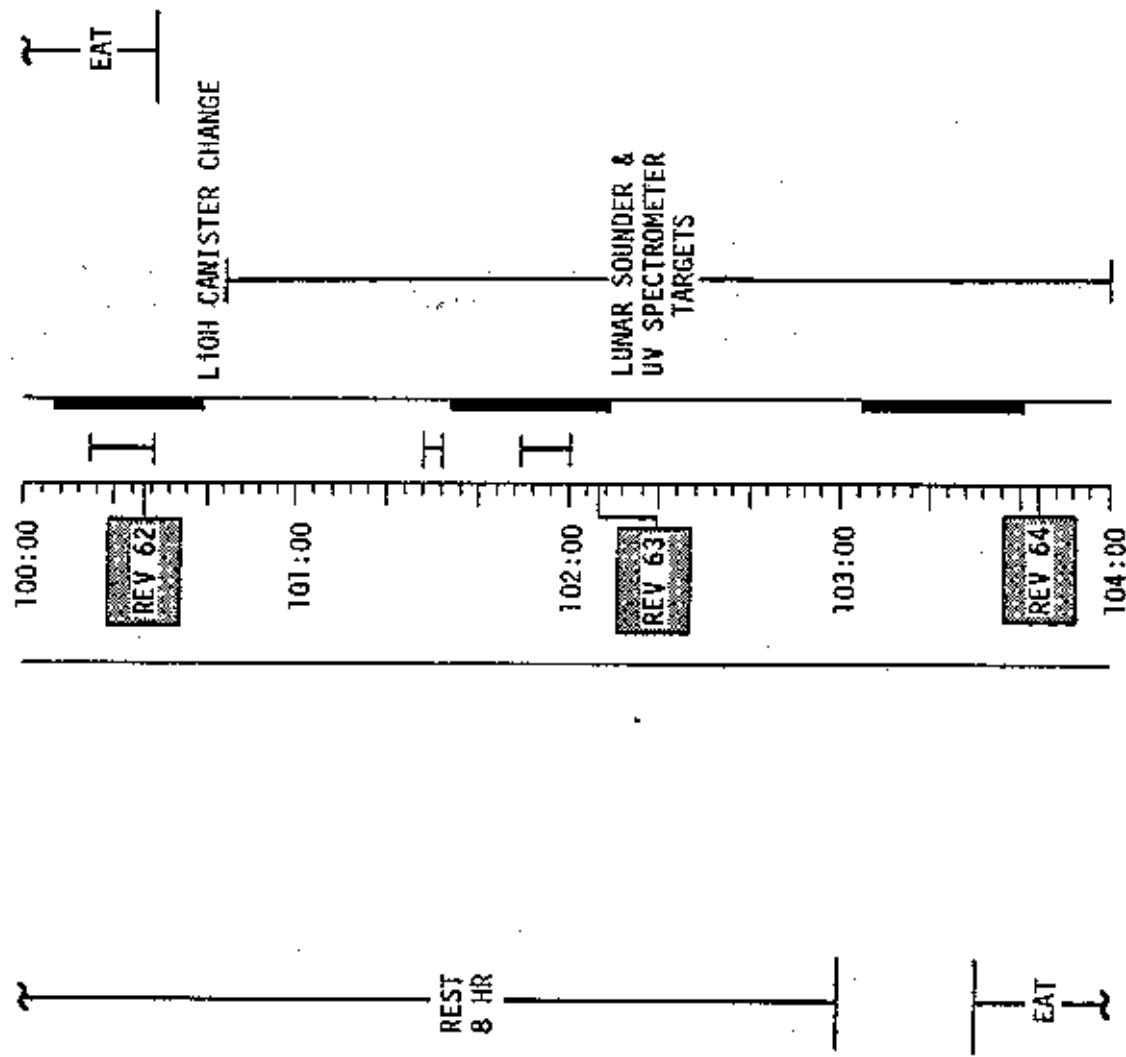
EARTH ALTERNATE

2053 CST

96:00



FLIGHT PLAN

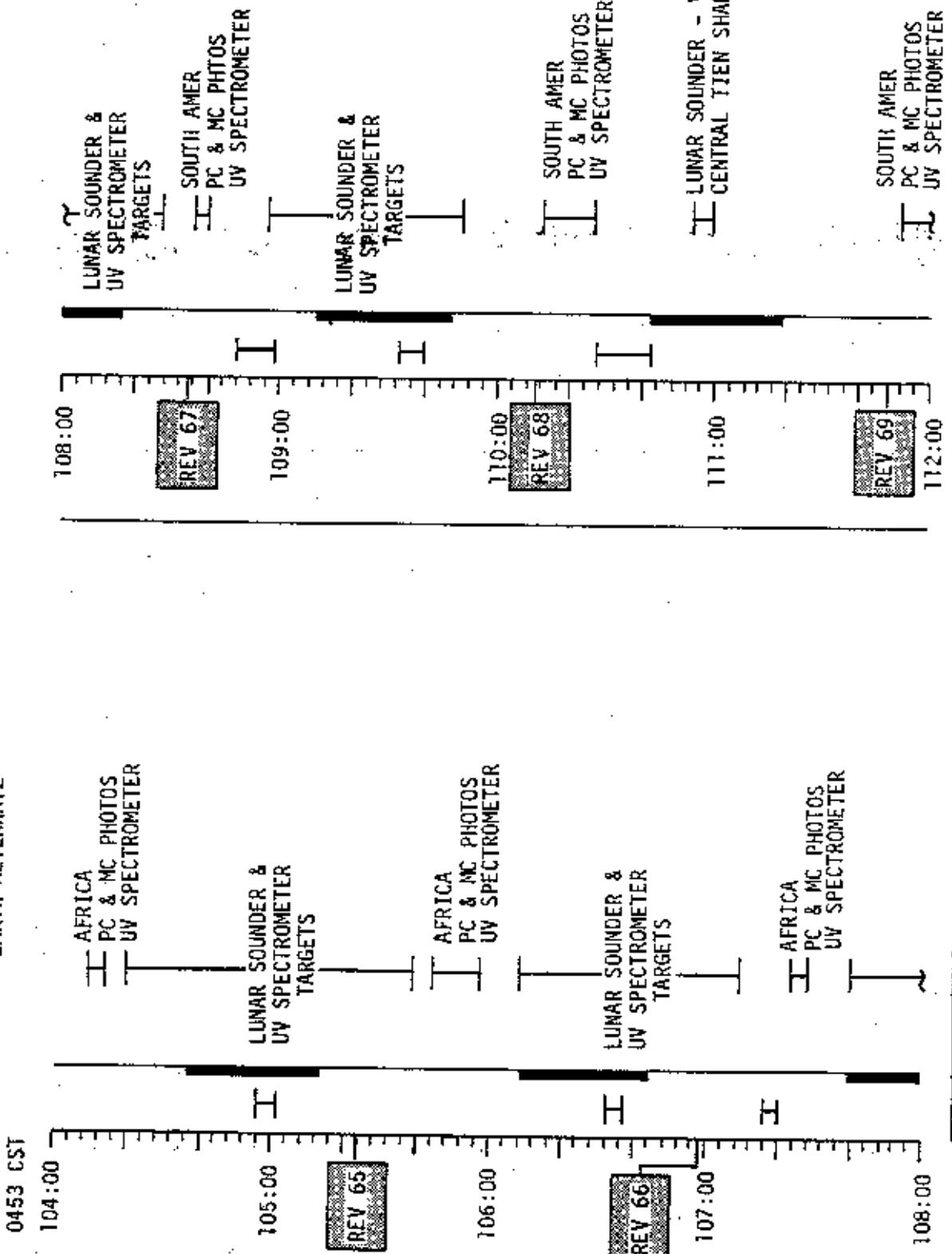


MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	96:00 - 104:00	5/60-64	6-15

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	104:00 - 112:00	5/65-69	6-16

FLIGHT PLAN

EARTH ALTERNATE

1253 CST

112:00

LUNAR SOUNDER &
UV SPECTROMETER
TARGETS

LION CANISTER CHANGE

113:00

SOUTH AMER
PC & MC PHOTOS
UV SPECTROMETER
 O_2 FC PURGE
WASTE H_2O DUMP

114:00

REV 70

115:00

REV 71

116:00

REV 72

116:00

REV 72

117:00

REV 73

118:00

REV 74

119:00

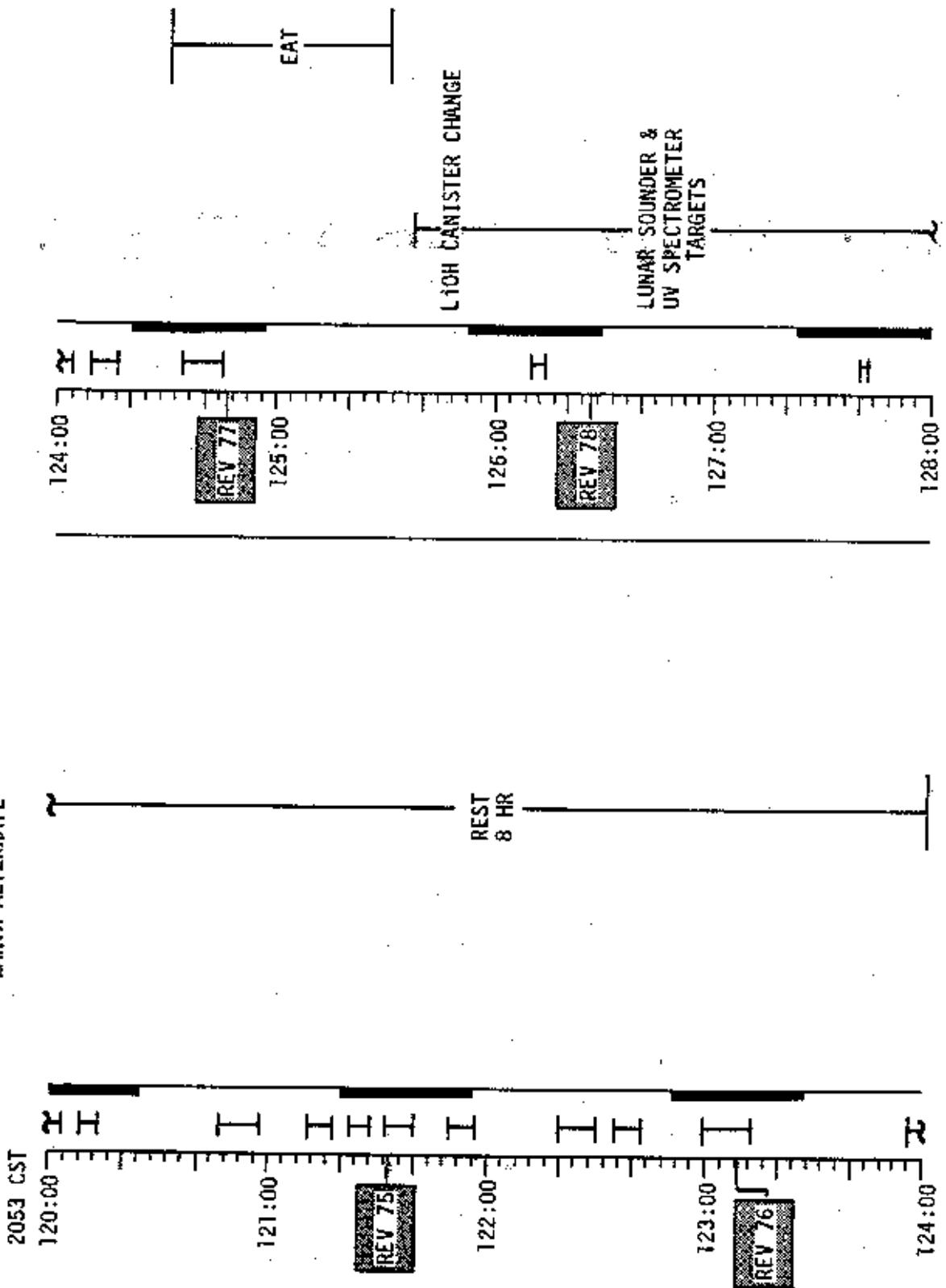
120:00

REST
8 HR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	112:00 - 120:00	5/70-74	6-17

FLIGHT PLAN

EARTH ALTERNATE

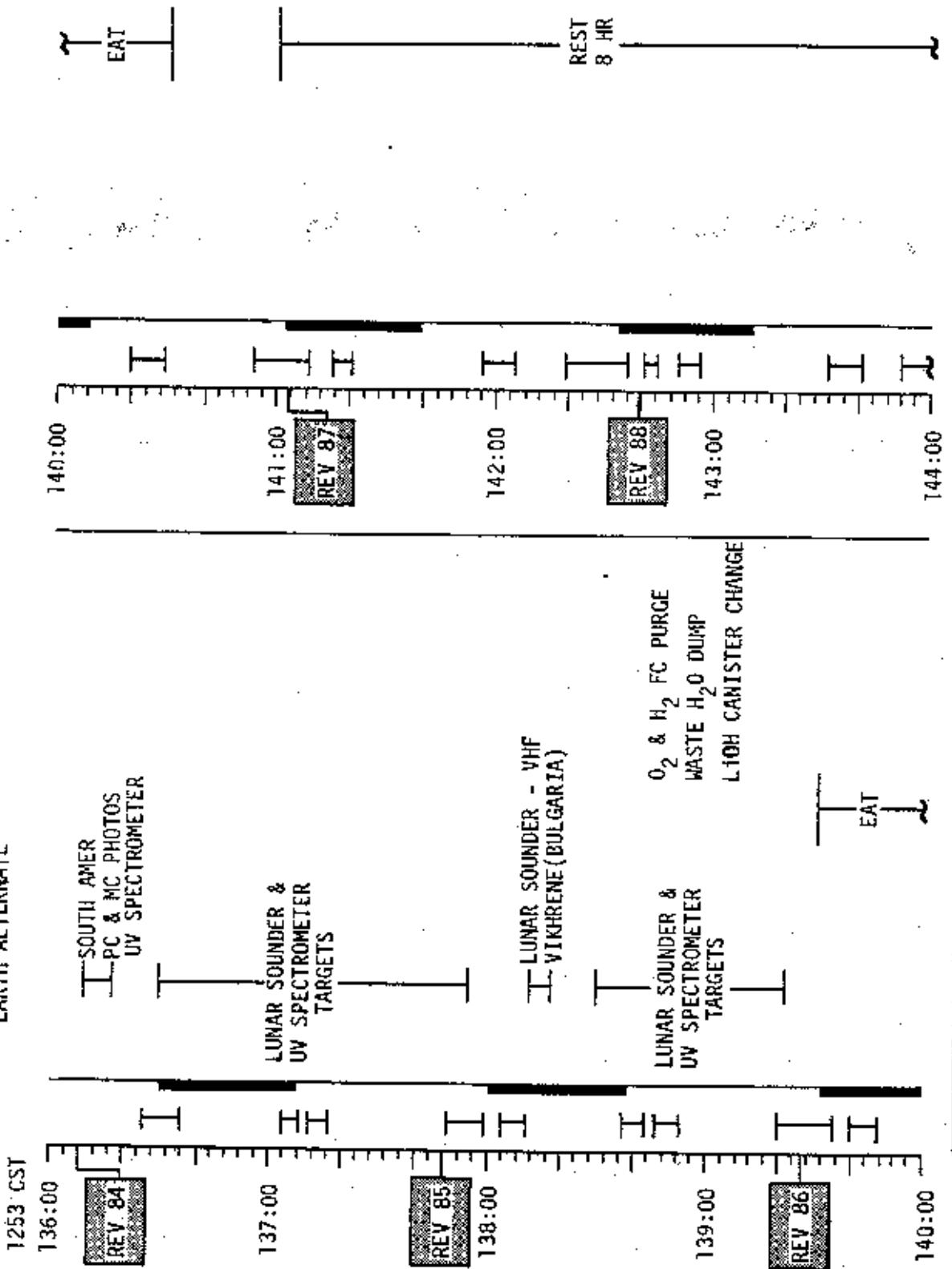


MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	120:00 - 128:00	6/75-78	6-18

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	136:00 - 144:00	6/84-88	6-20

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE

2053 CST

144:00

REV 89

145:00

REV 90

147:00

REV 91

148:00

148:00

149:00

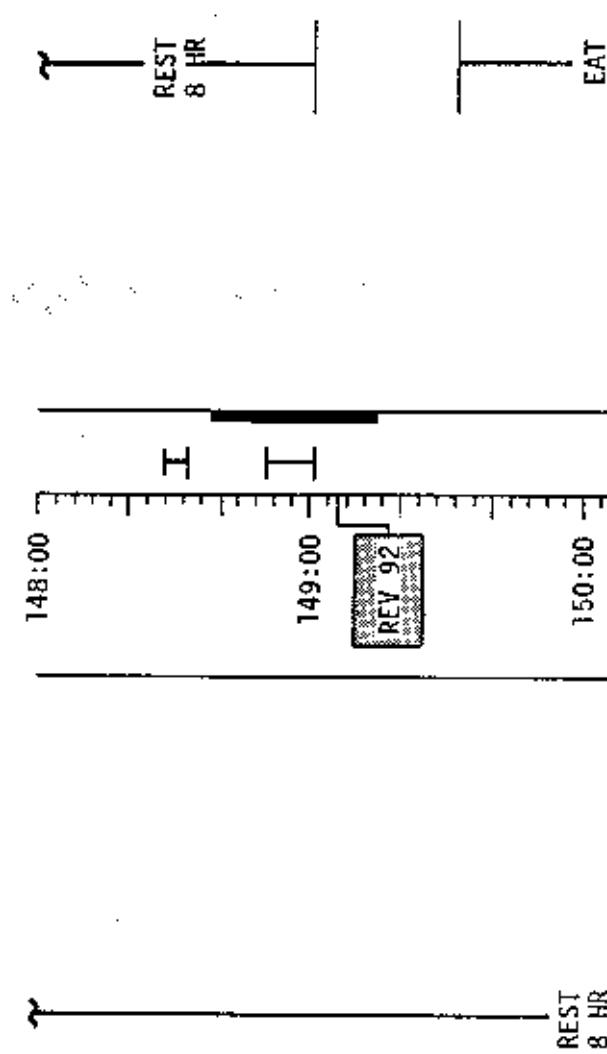
REV 92

150:00

REV 93

151:00

152:00



REST
8 HR

EAT

REST
8 HR

AFRICA
PC & MC PHOTOS
UV SPECTROMETER
TARGETS

LUNAR SOUNDER &
UV SPECTROMETER
TARGETS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	144:00 - 152:00	7/89-93	6-21

FLIGHT PLAN

EARTH ALTERNATE

0453 CST

152:00

REV 94

LUNAR SOUNDER &
UV SPECTROMETER
TARGETS

AFRICA
PC & MC PHOTOS
UV SPECTROMETER

LUNAR SOUNDER
UV SPECTROMETER
TARGETS

AFRICA
PC & MC PHOTOS
UV SPECTROMETER
PS2 OPT 3

154:00

REV 95

156:00

CABIN PREP FOR EVA

EVA EQUIP PREP
DON PGA'S

158:00

REV 97

CMP & CDR DON BIOMED HARNESSSES

CMP DON EVA EQUIPMENT

HATCH OPENING

CMP EGRESS

159:00

REV 98

160:00

EVA

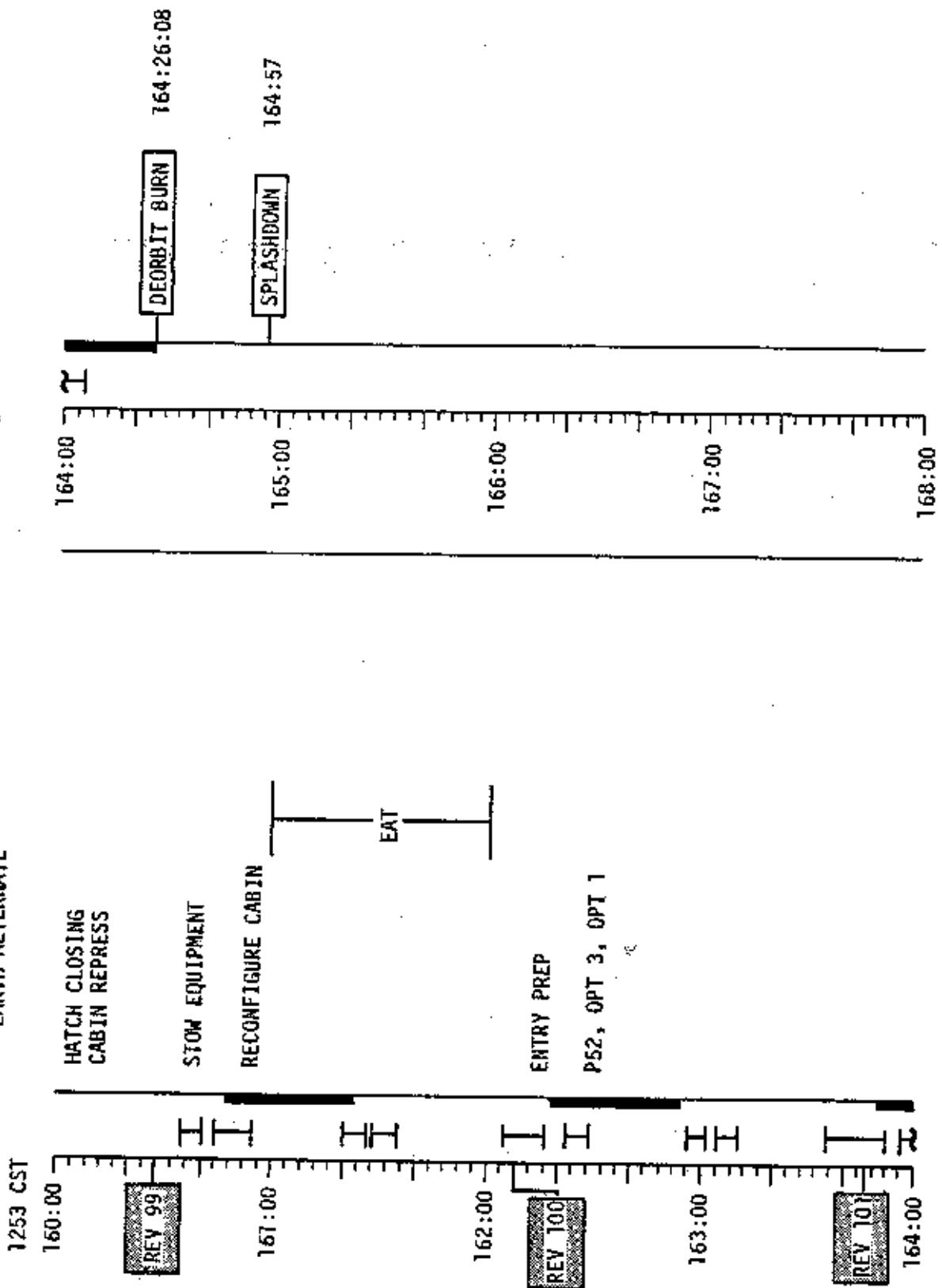
156:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	152:00 - 160:00	7/94-98	6-22

FLIGHT PLANNING BRANCH

FLIGHT PLAN

EARTH ALTERNATE



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	10/23/72	160:00 - 168:00	7/99-101	6-23

FLIGHT PLANNING BRANCH

APOLLO 17

FINAL (12/6)

10/23/72

6-24

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CSM/LM ALTERNATE MISSION

Assumptions

- 1) Nominal LOI and DOI Burns have been achieved by the SPS.
- 2) A systems failure while in lunar orbit has resulted in a NO/GO for landing.

Constraints

- 1) Jettison LM to a lunar impact.
- 2) Circularize to a 60 nm orbit.
- 3) Adhere to the nominal flight plan as much as possible
- 4) Obtain sim bay experiments data.

Sequence of Events

This alternate mission is initiated by a systems failure with the DPS which will not allow a landing mission. LM jettison, Circularization and TEI occurs at approximately the nominal time.

6-26

10/23/72

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FLIGHT PLAN

CSM/LM ALTERNATE MISSION

LM

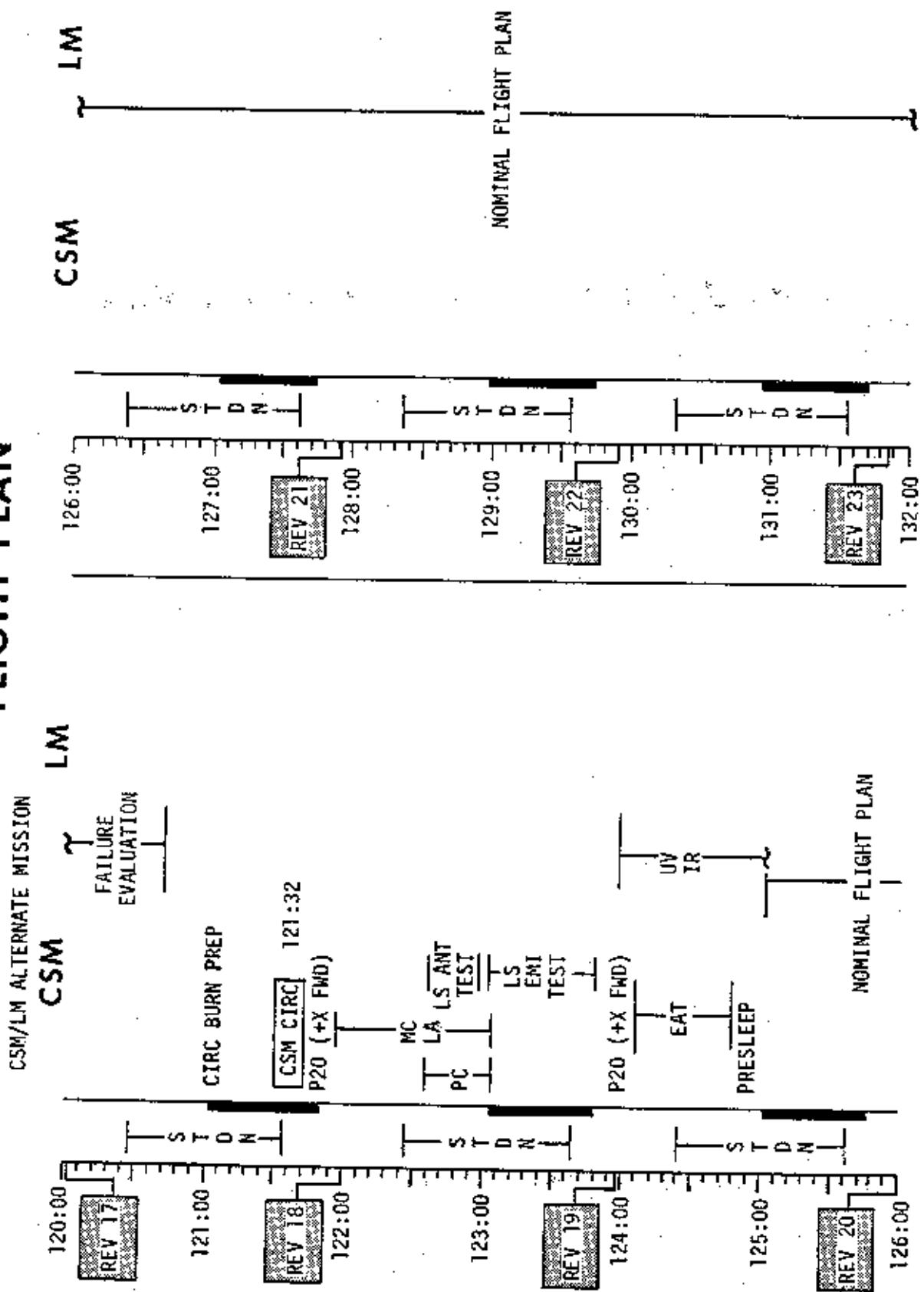
LM

CSM

CSM

LM

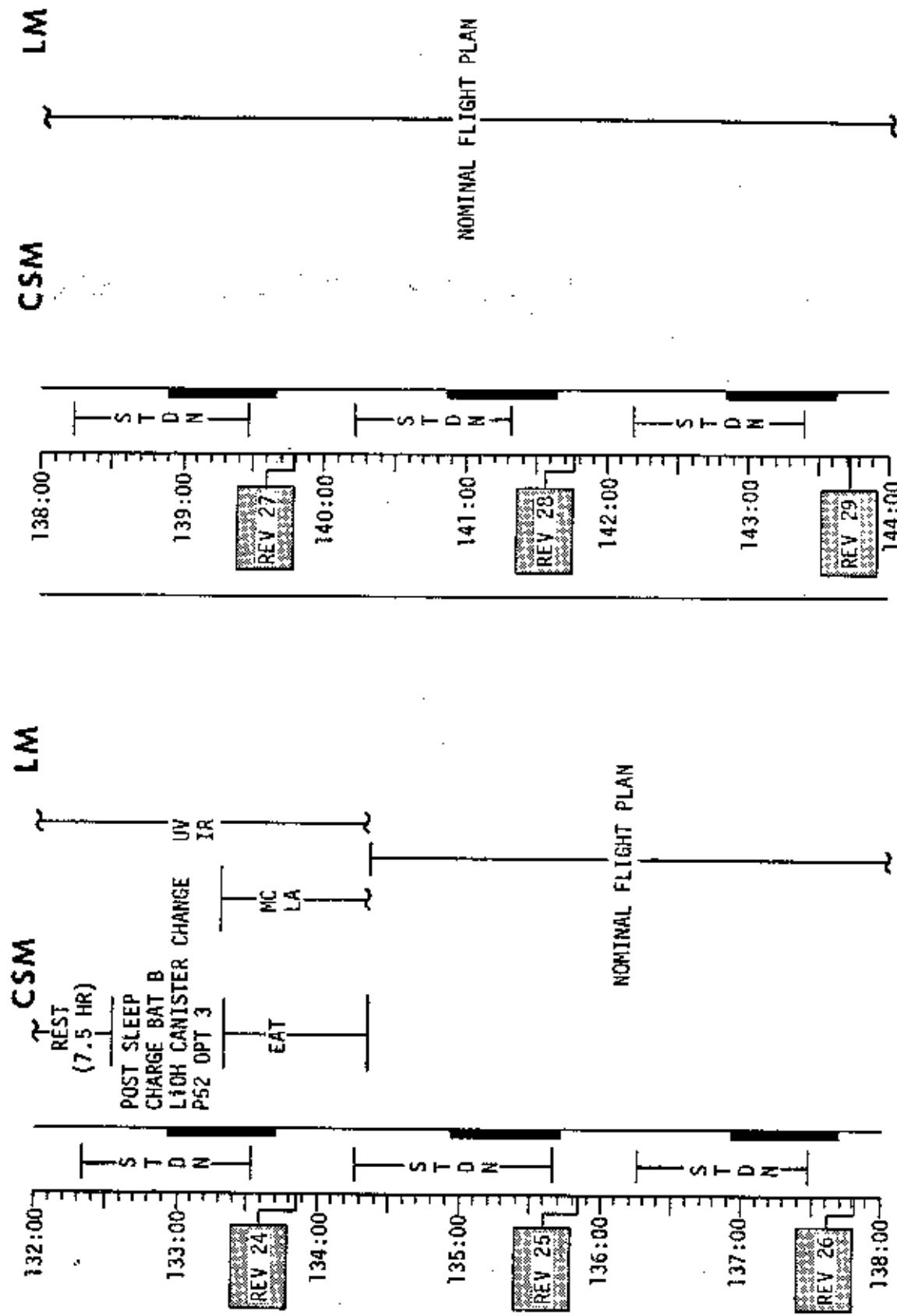
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	120:00 - 132:00	6-7/17-23	6-28

FLIGHT PLAN

CSM/LM ALTERNATE MISSION



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	132:00 - 144:00	7/24-29	6-29

FLIGHT PLAN

CSM/LM ALTERNATE MISSION

CSM

LM

LM

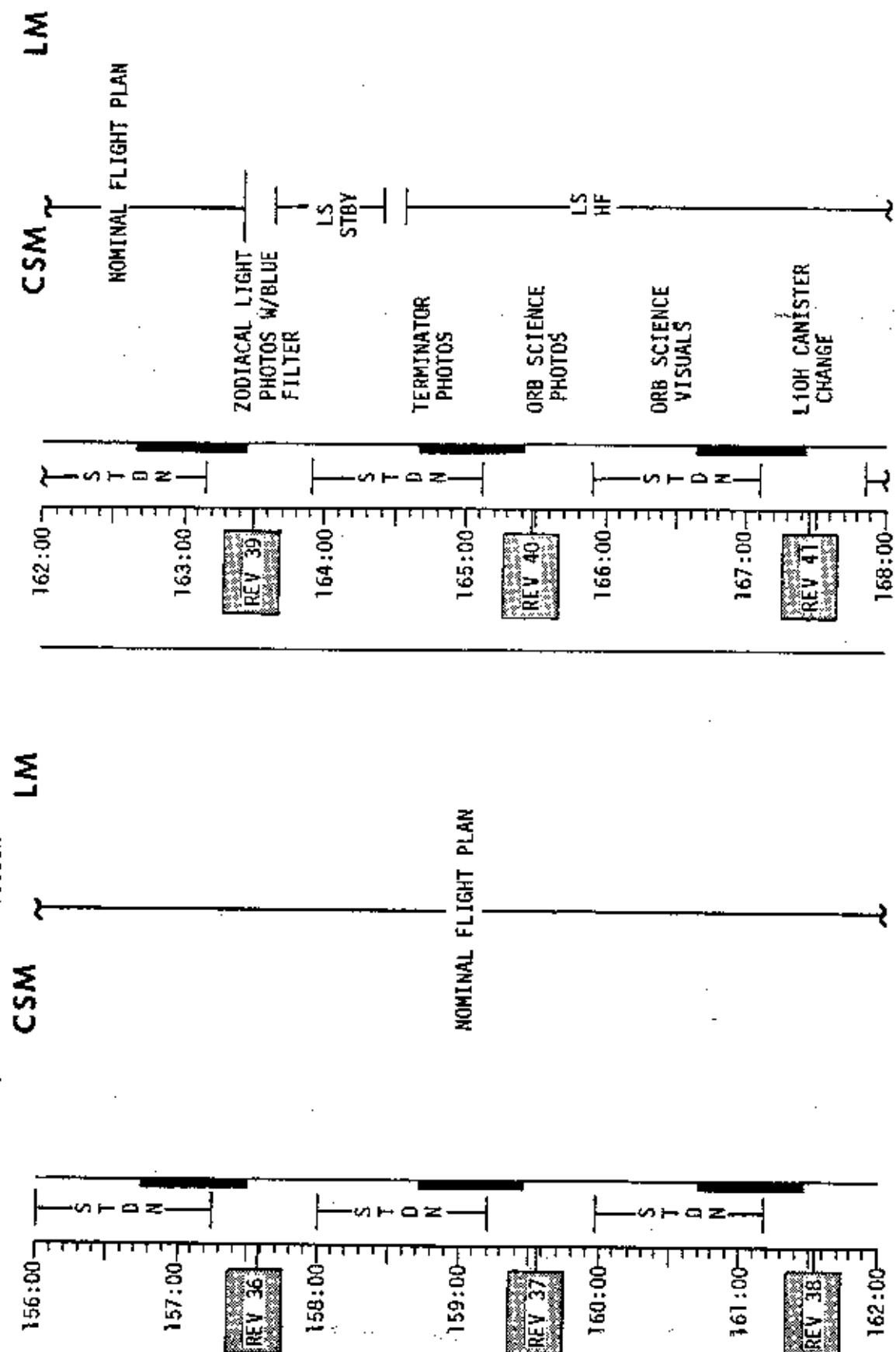
LM

CSM

LM

FLIGHT PLAN

CSM/LM ALTERNATE MISSION



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	156:00 - 168:00	B/36-41	6-31

FLIGHT PLAN

CSM/LM ALTERNATE MISSION

CSM

T S

S T

D D

N N

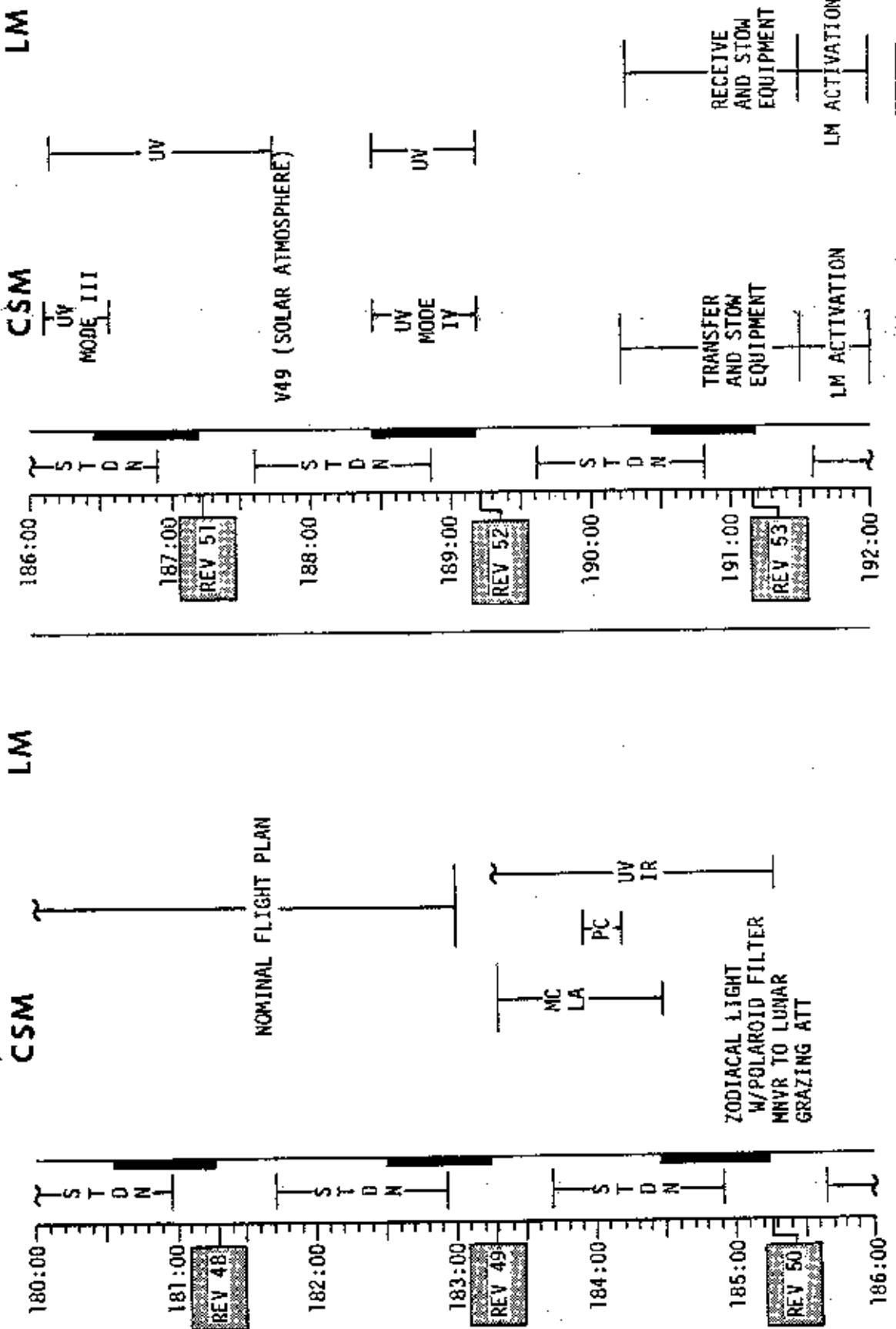
LM

CSM

LM

FLIGHT PLAN

CSM/LM ALTERNATE MISSION



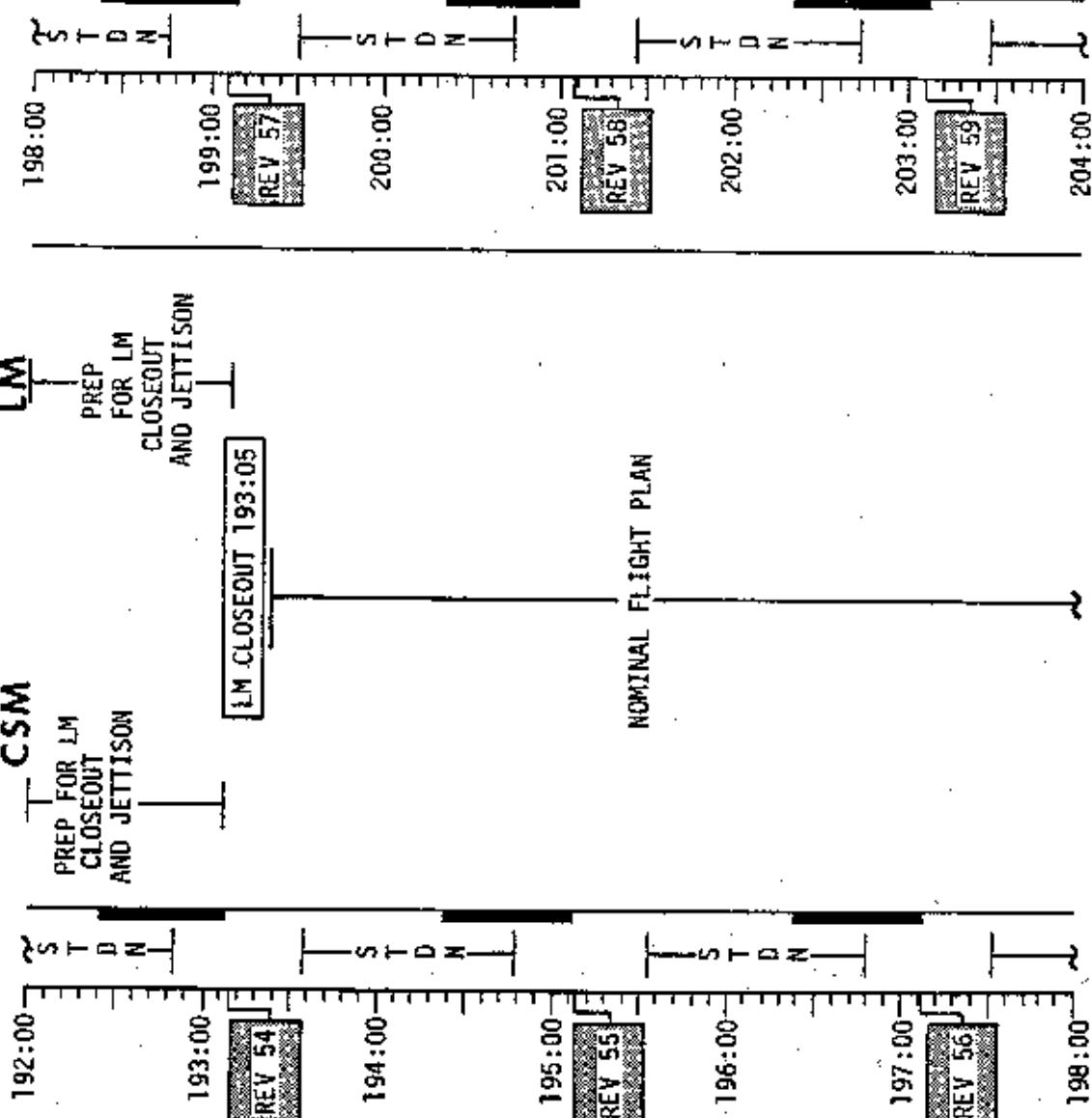
MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	180:00 - 192:00	9/48-53	6-33

FLIGHT PLAN

CSM/LM ALTERNATE MISSION

CSM

PREP FOR LM
CLOSEOUT
AND JETTISON



LM

CSM

PREP FOR LM
CLOSEOUT
AND JETTISON

CSM

NOMINAL FLIGHT PLAN

NOMINAL FLIGHT PLAN

MISSION	EDITION	DATE	TIME	DA. / REV	PAGE
APOLLO 17	FINAL (12/6)	23 OCTOBER 1972	192:00 - 204:00	9/54-59	6-34

FLIGHT PLANNING BRANCH

CSM ONLY ALTERNATE MISSION

Assumptions

- 1) A nominal TLI Burn has been achieved by the S-IVB.
- 2) A systems failure during T.D.&E or a LM Jettison during TLC has resulted in a CSM-Only Alternate Mission.

Constraints

- 1) SPS midcourse burn to return to a free return trajectory.
- 2) Maintain any rev TEI Capability.
- 3) Obtain sim bay experiments data.

Sequence of Events

This alternate mission is initiated by a failure to eject the LM at T.D.&E or a LM Jettison during TLC. An SPS midcourse will be performed to a free return trajectory. The CSM will perform an LOI and Circularization Burn sequence with an inclination of approximately twenty degrees. Six days are planned in lunar orbit operating all the sim bay equipment and expending all the pan and mapping camera film. The TEI burn will follow a sequence similar to the nominal mission.

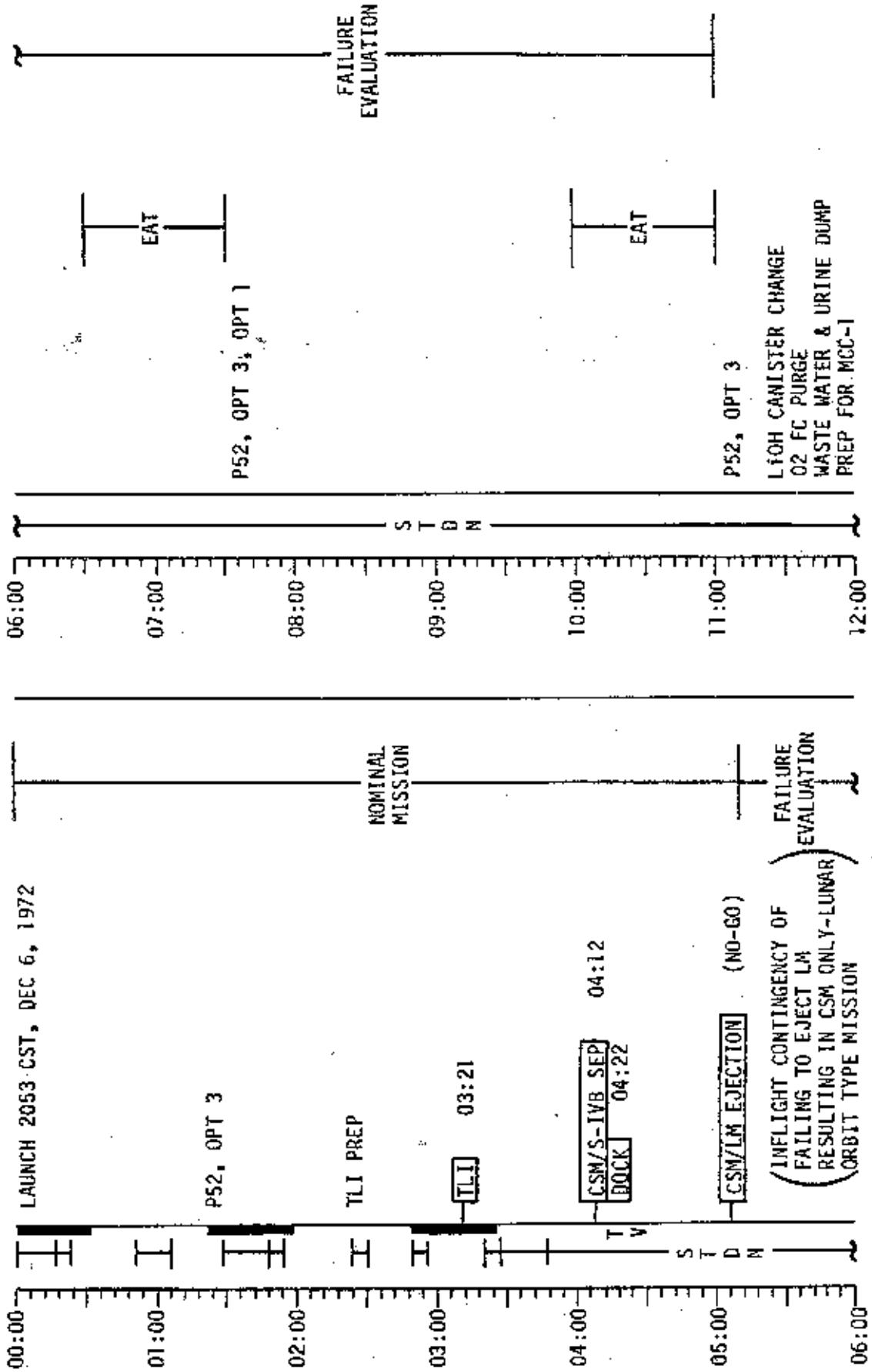
6-36

10/23/72

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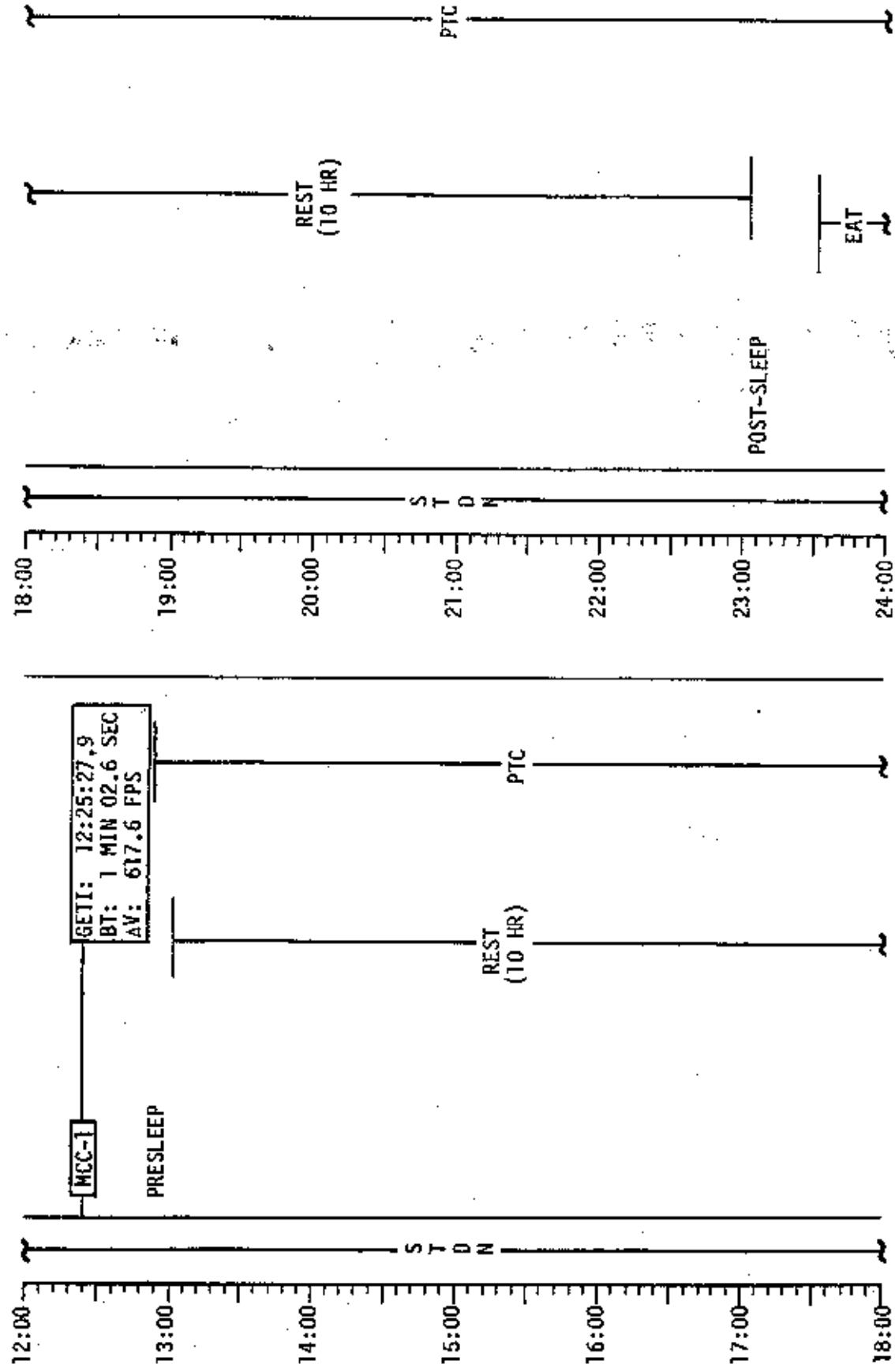
FLIGHT PLAN

LAUNCH 2053 · CST, DEC 6, 1972



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	00:00 - 12:00	1/TLC	6-37

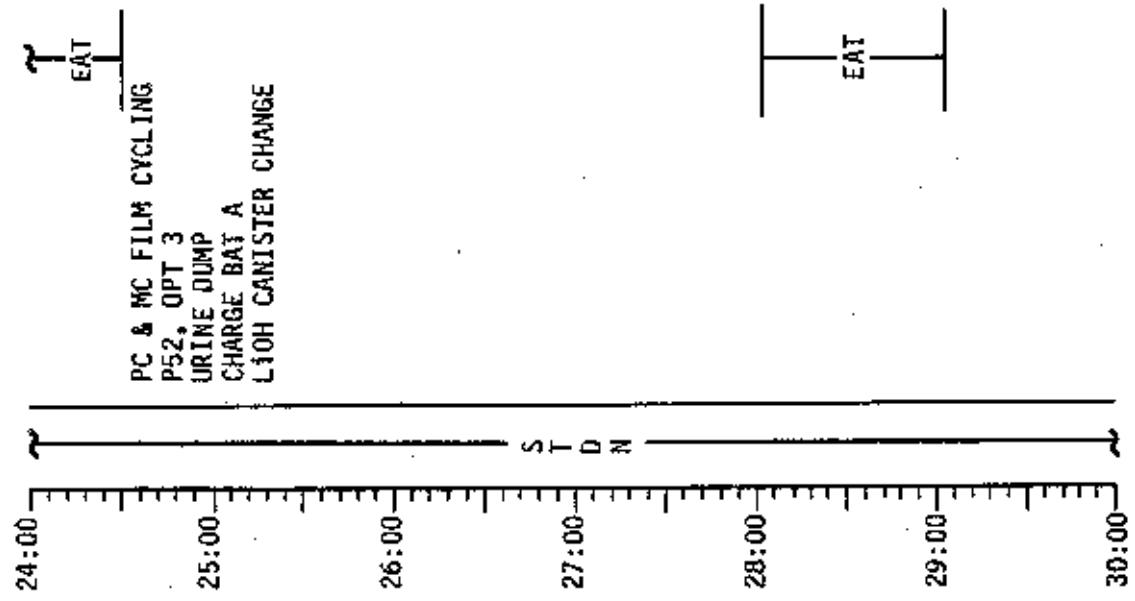
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	12:00 - 24:00	1/TLC	6-38

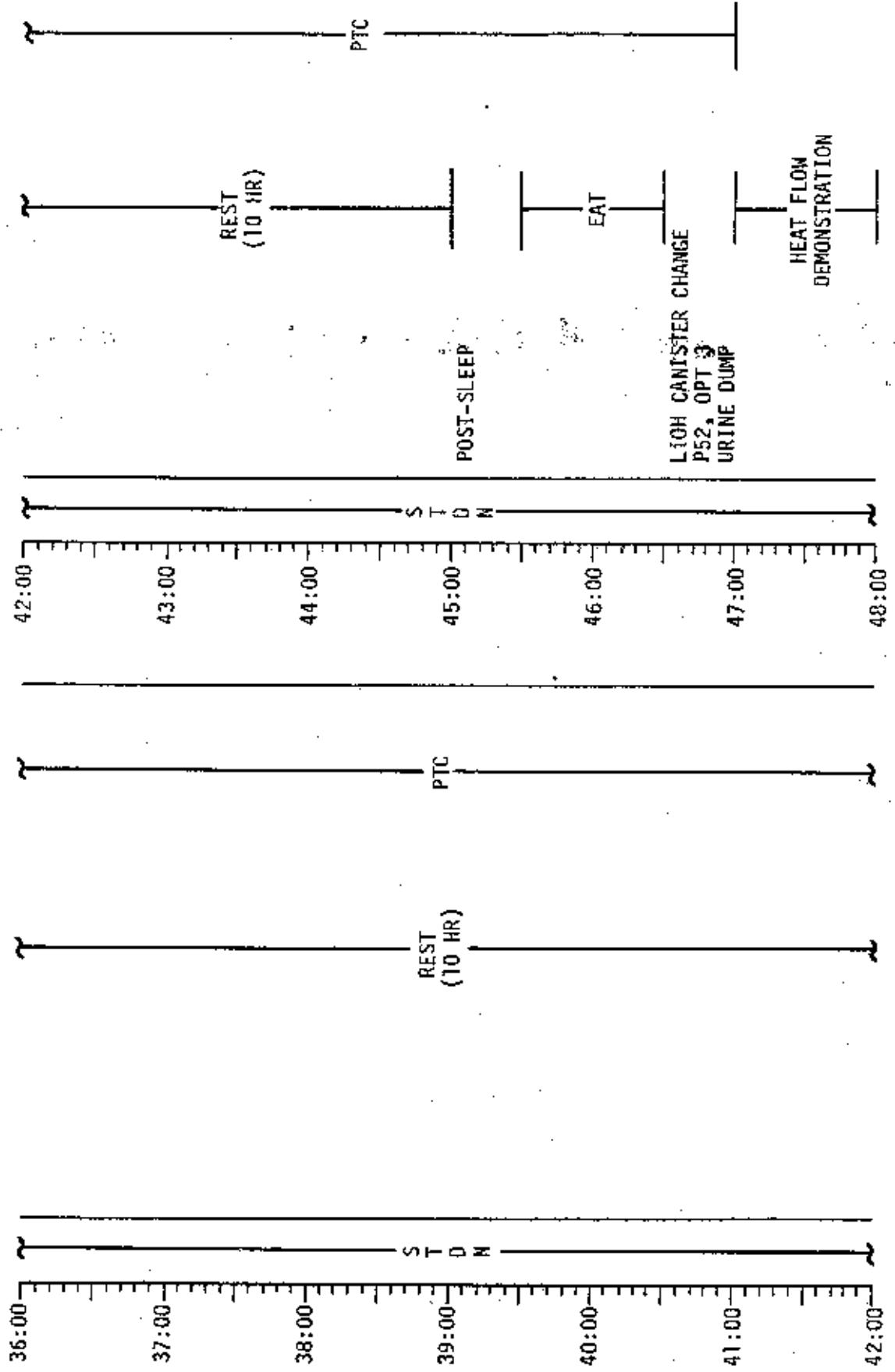
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	24:00 - 36:00	2/TLC	6-39

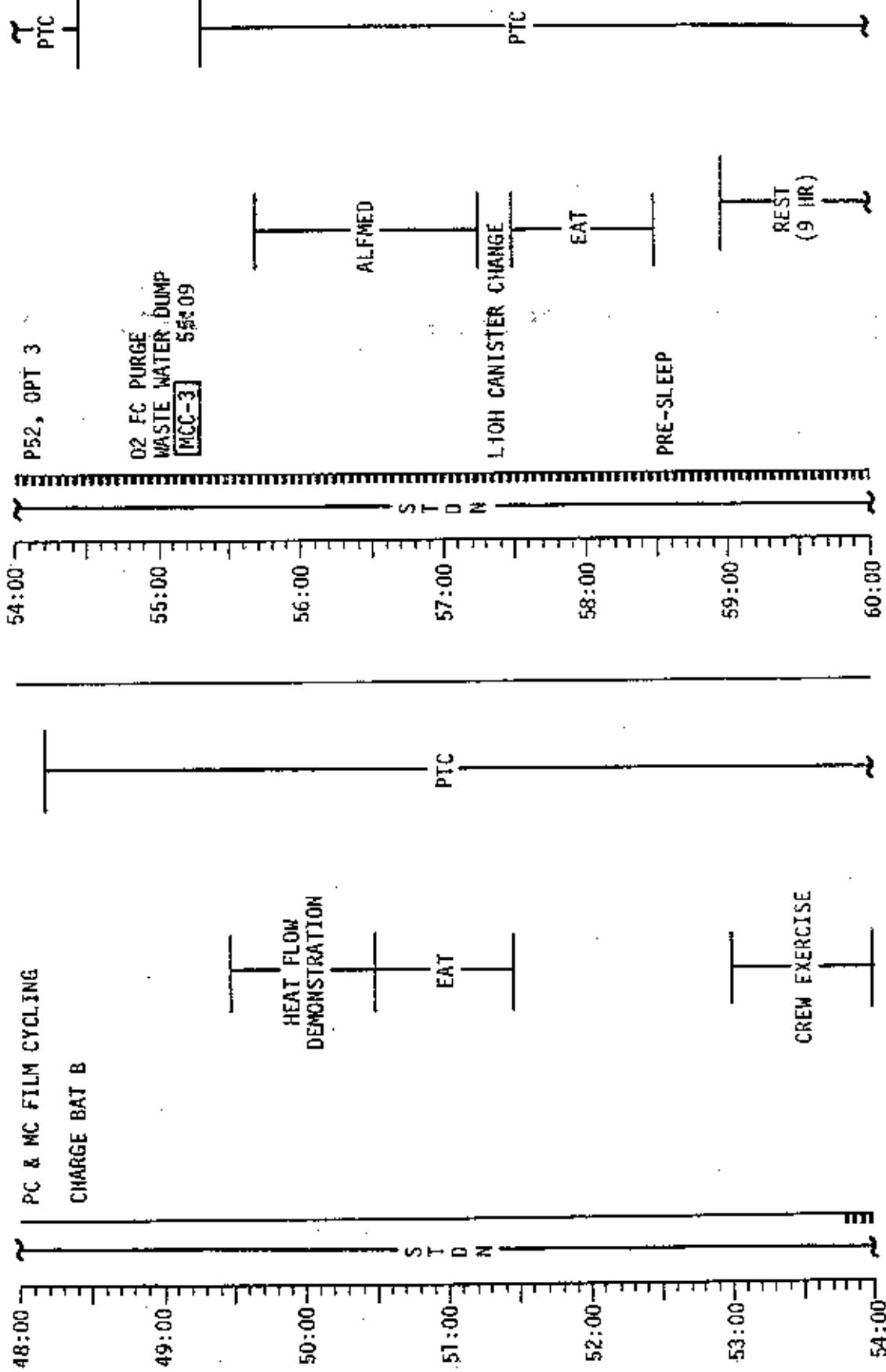
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	36:00 - 48:00	2/TLC	6-40

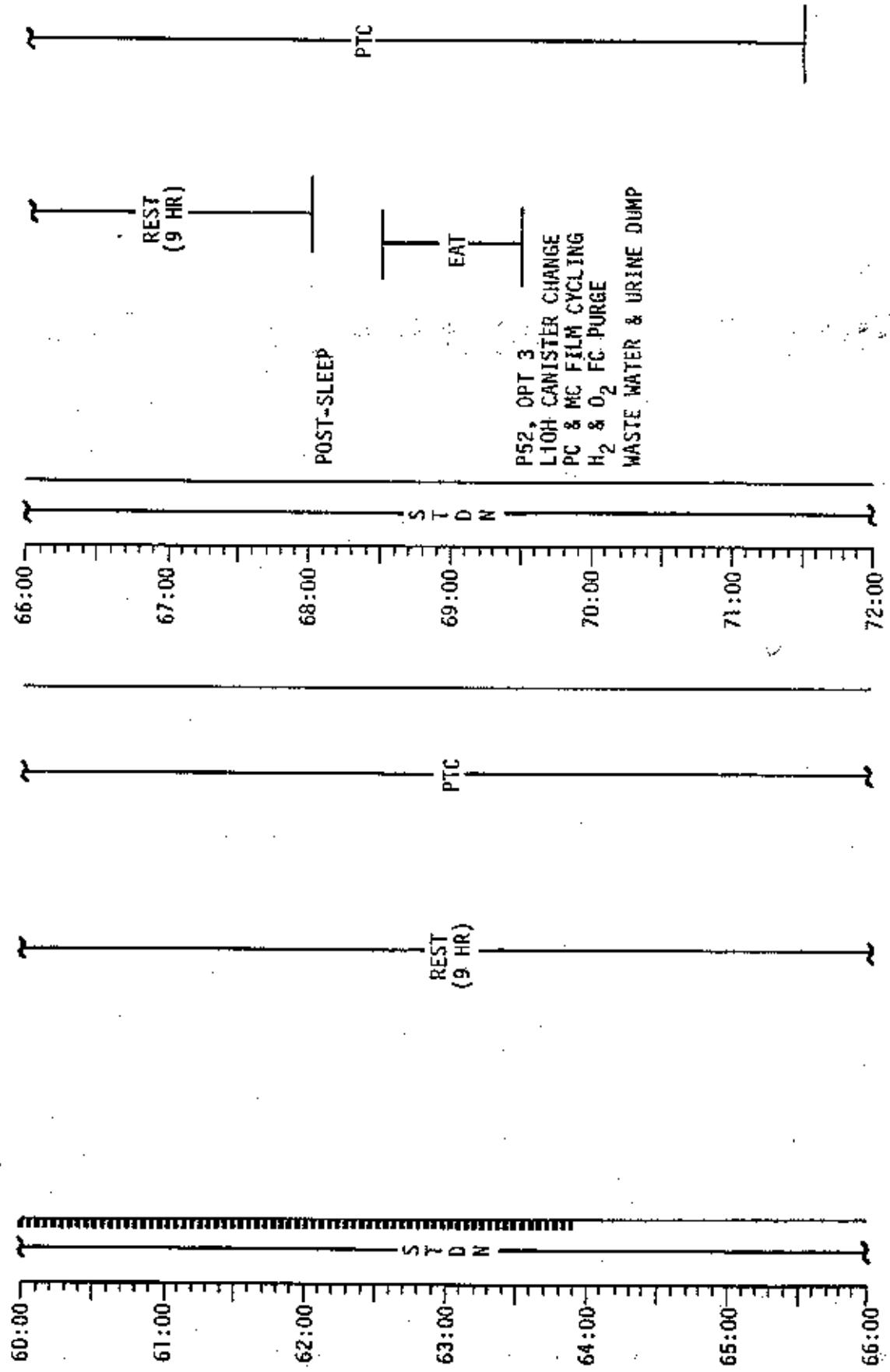
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	48:00 - 60:00	3/1LC	6-41

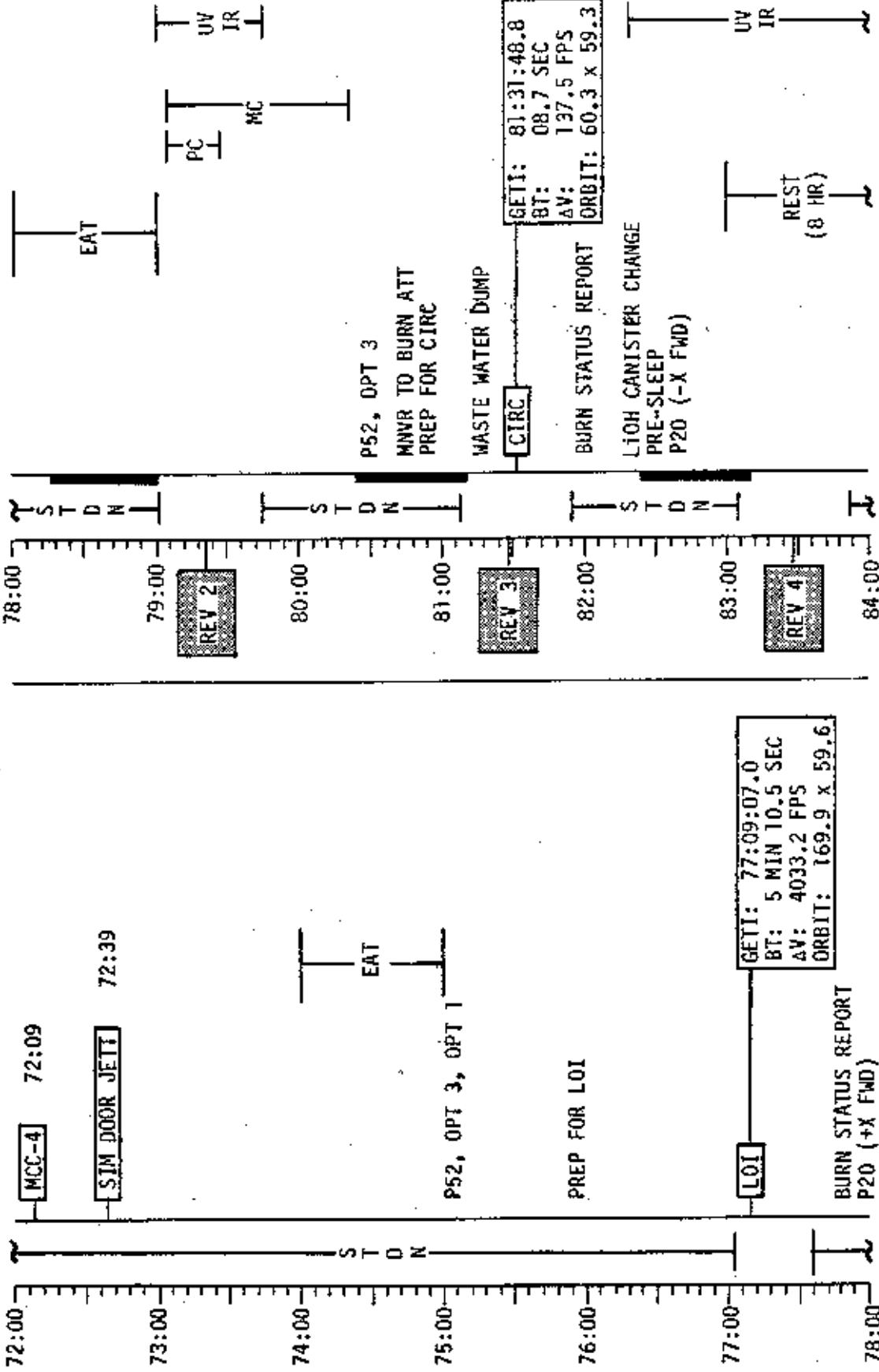
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/EV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	60:00 - 72:00	3/TLG	6-42

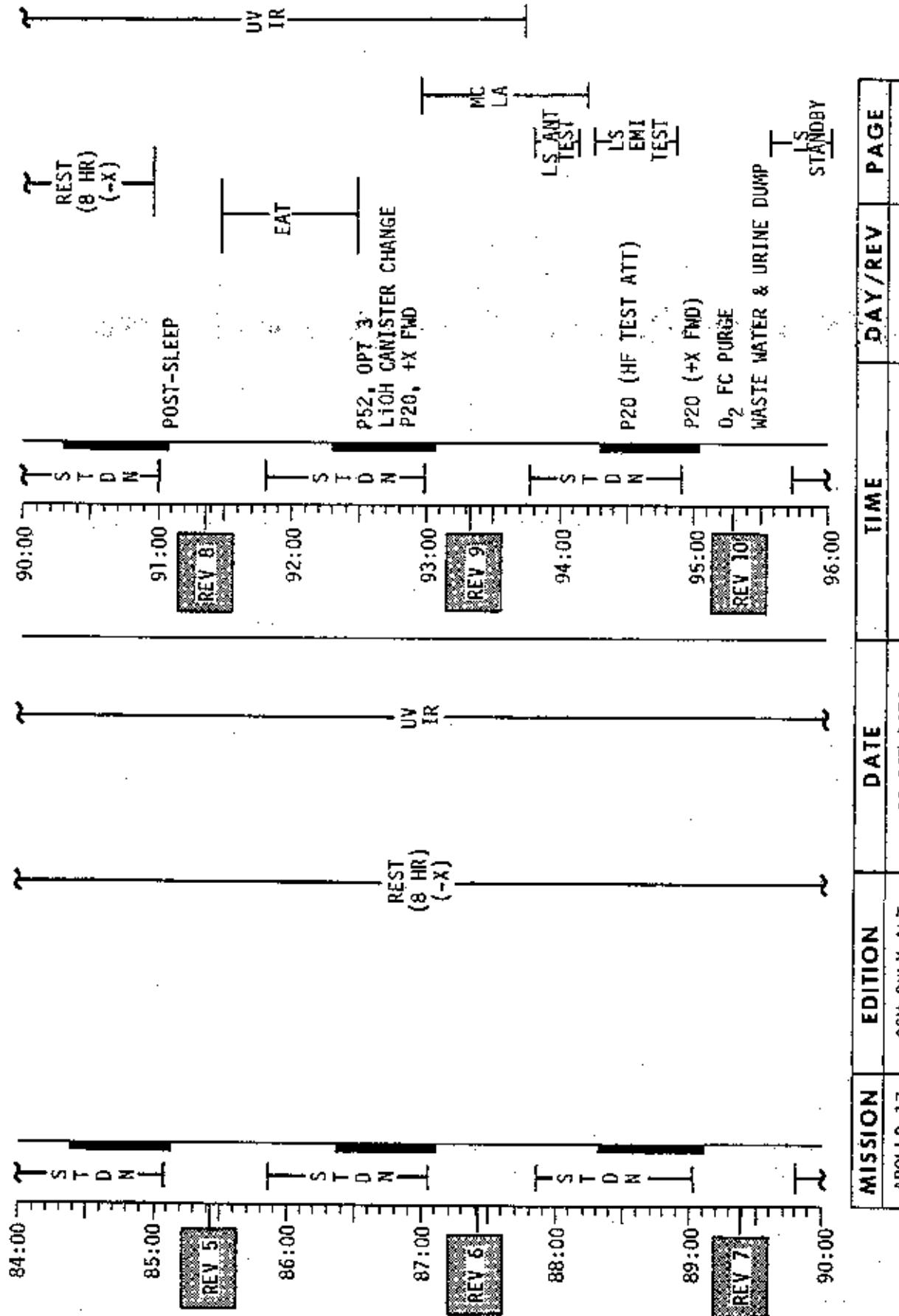
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	72:00 - 84:00	4/1-4	6-43

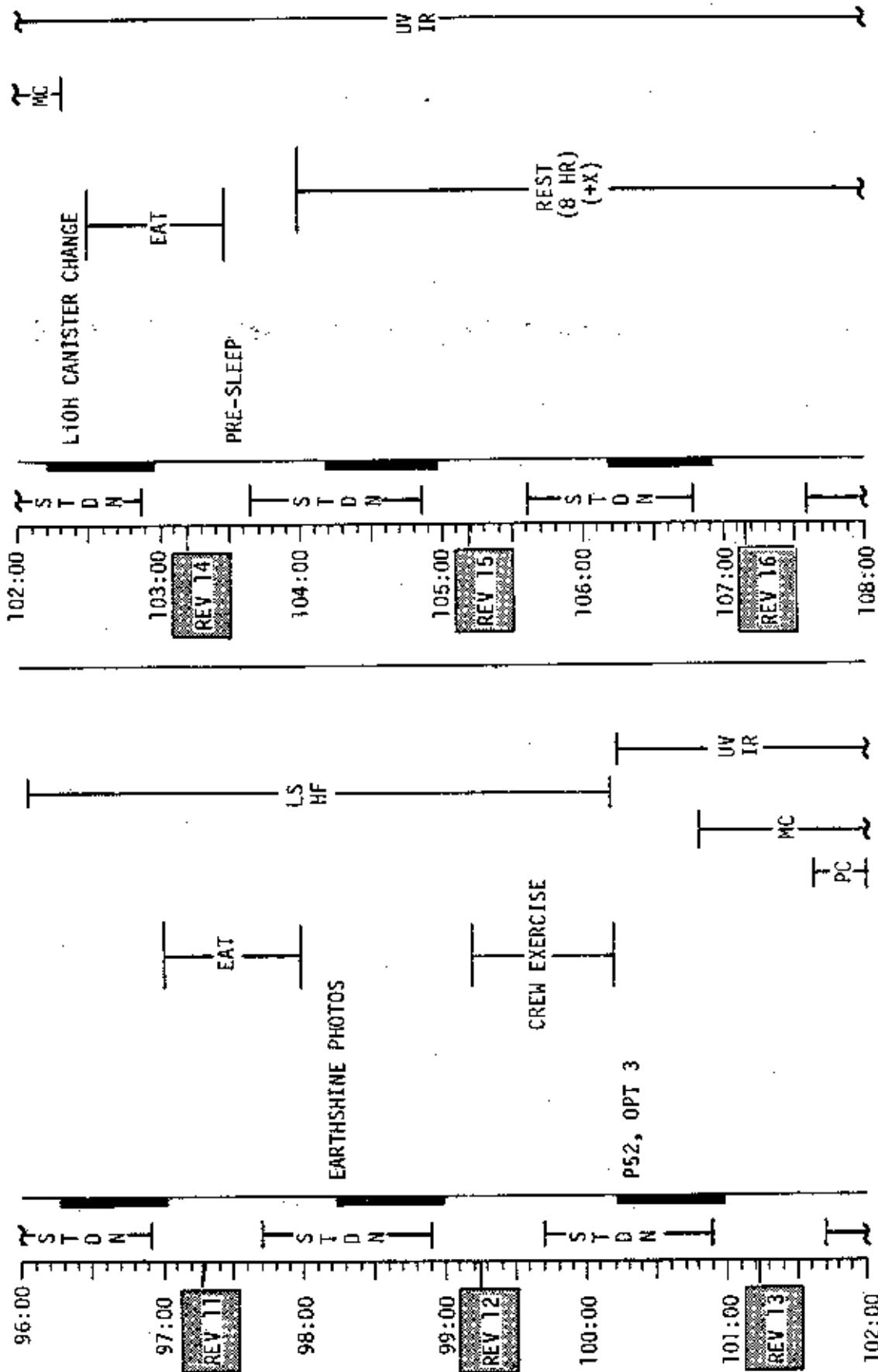
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	84:00 - 96:00	4/4-10	6-44

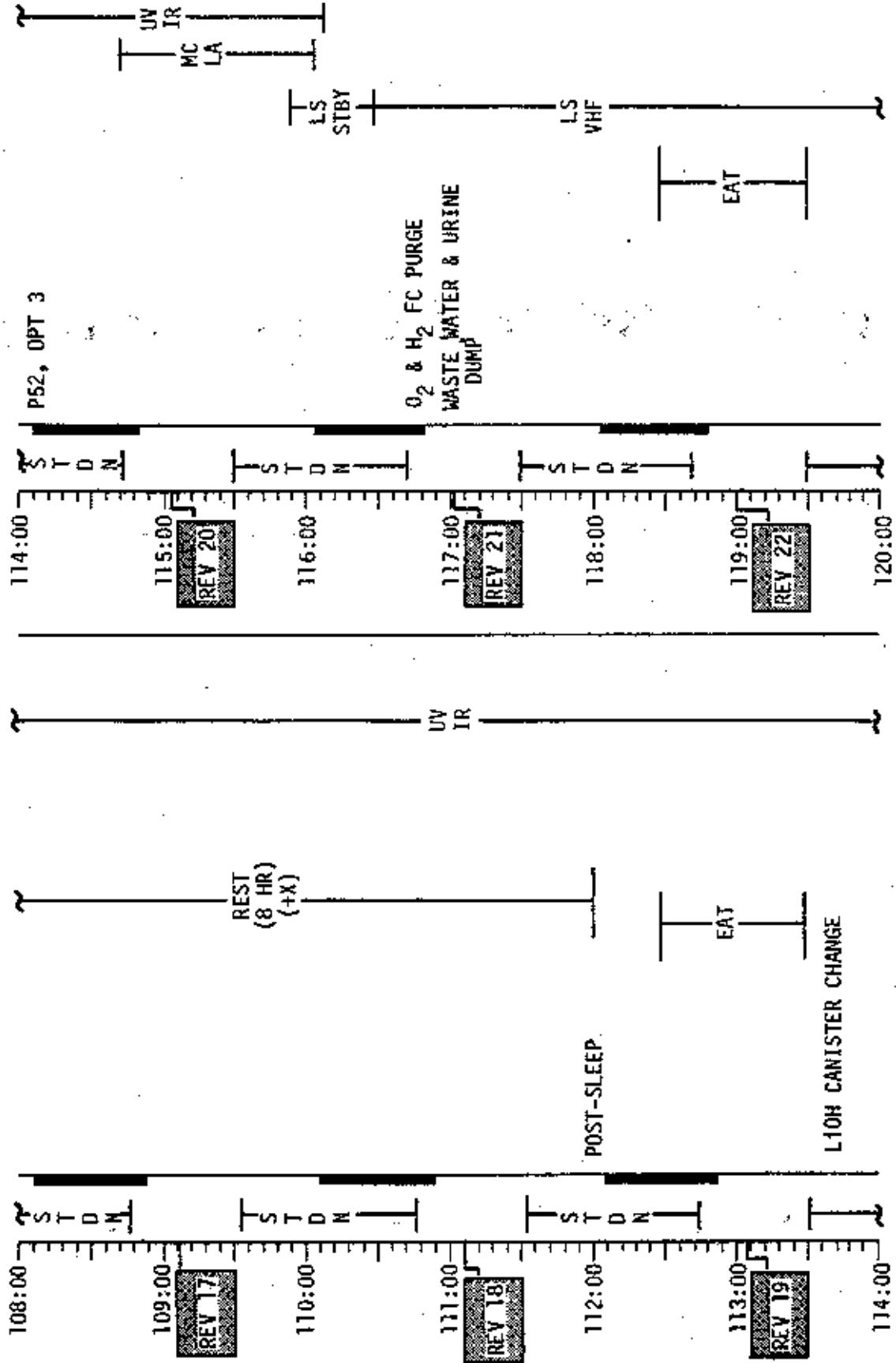
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	96:00 - 108:00	5/11-16	6-45

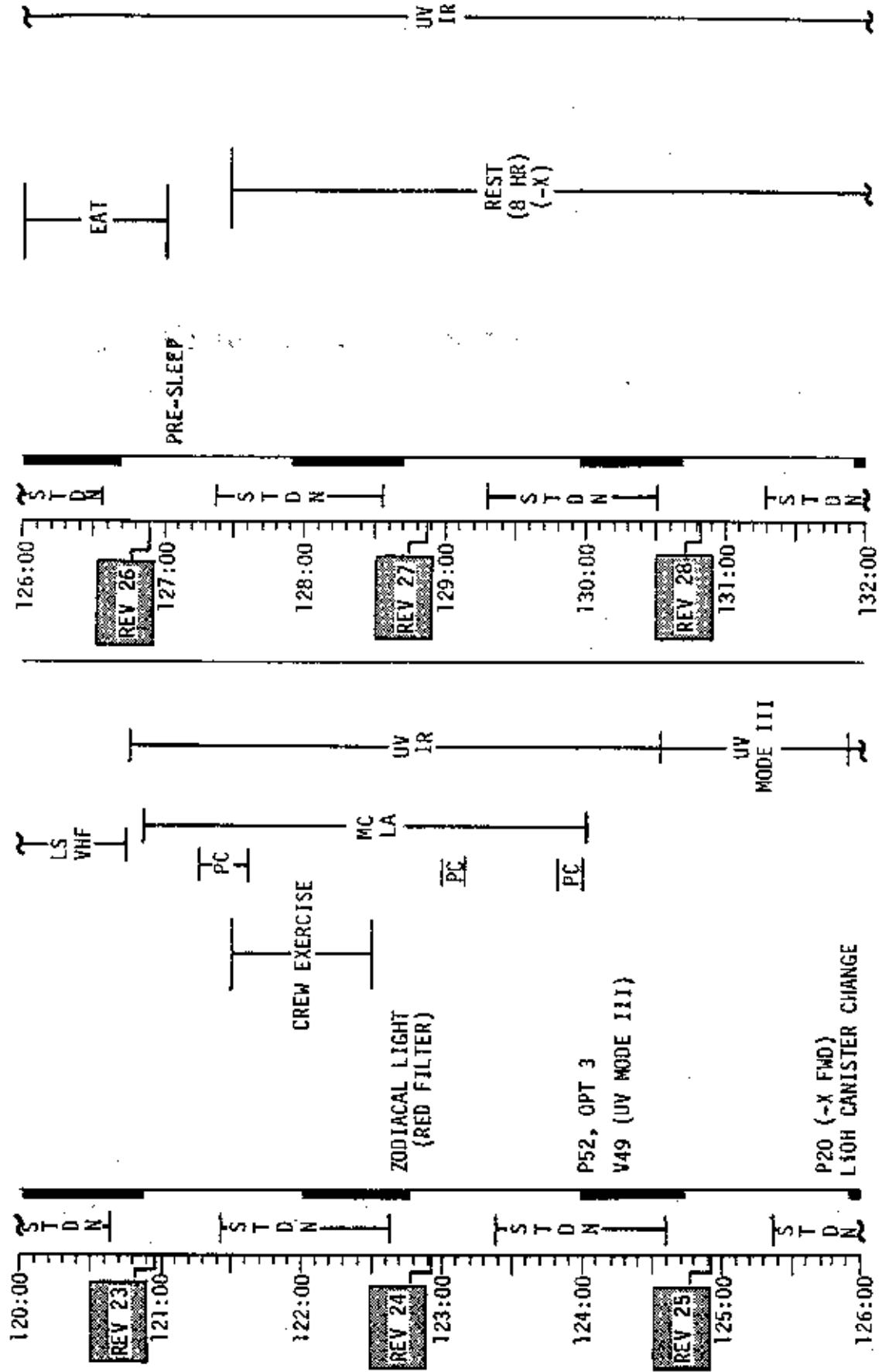
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	108:00 - 120:00	5-6/17-22	6-46

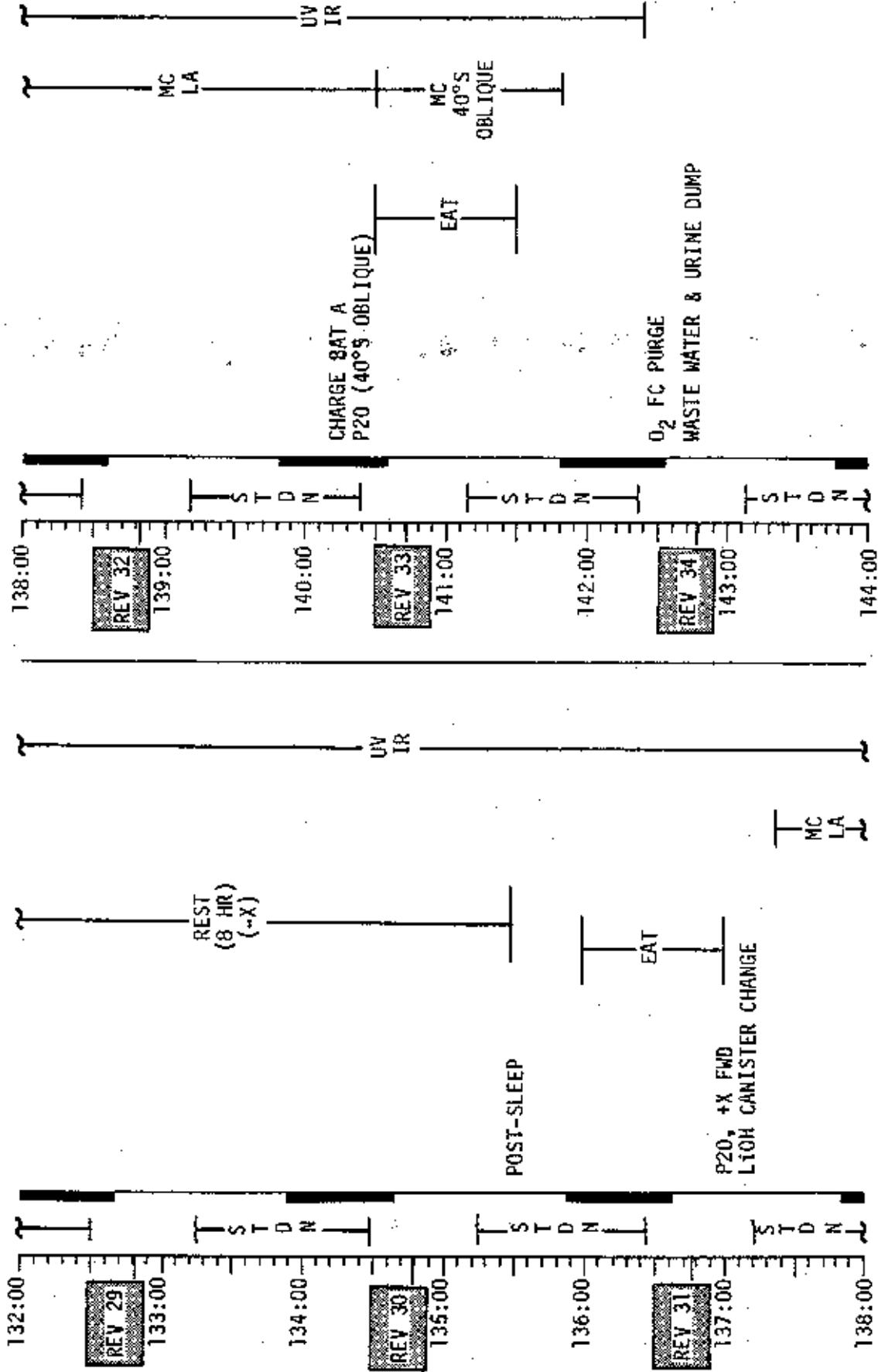
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	120:00 - 132:00	6/23-28	6-47

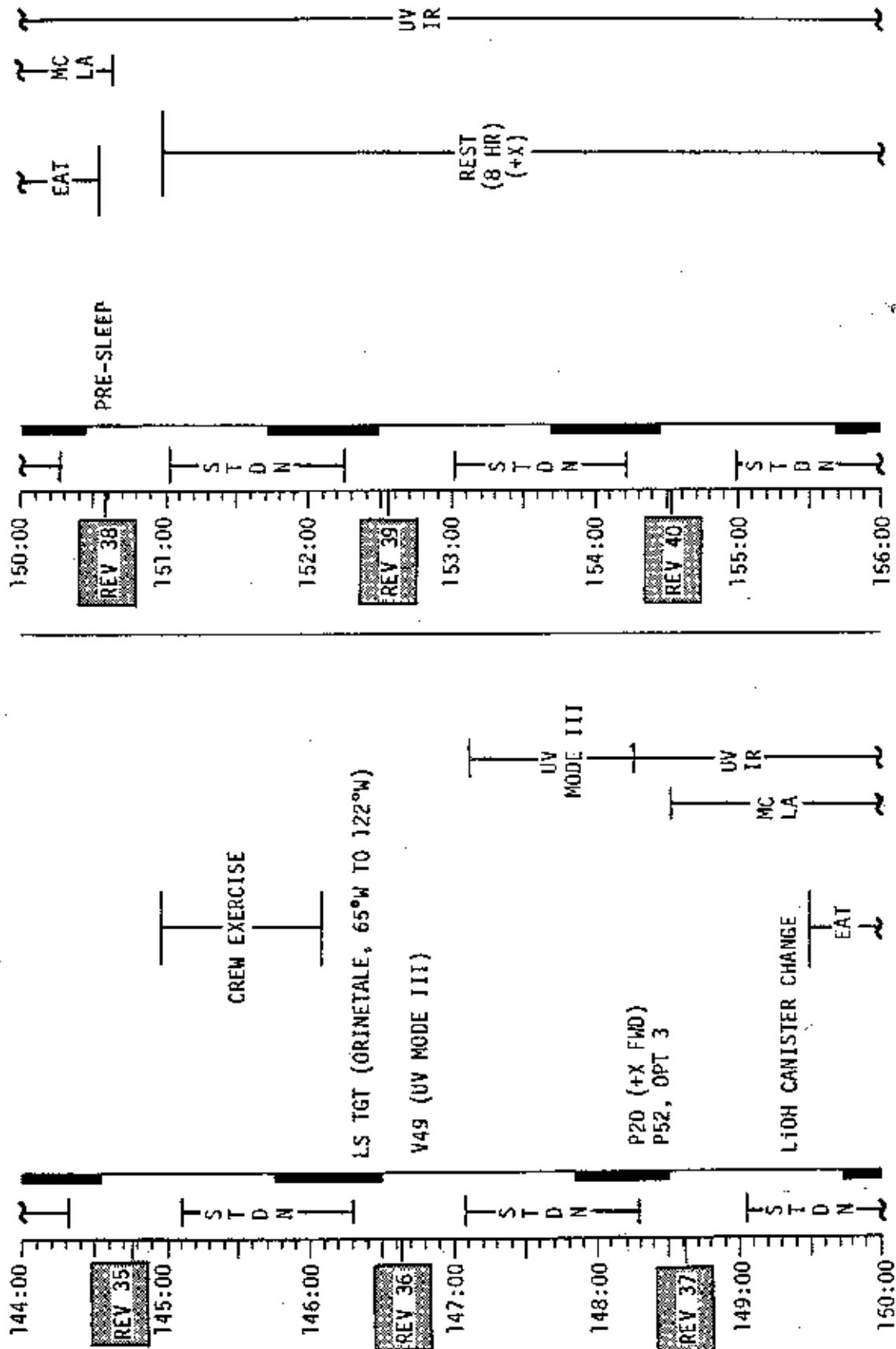
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	132:00 - 144:00	6-7/29-34	6-48

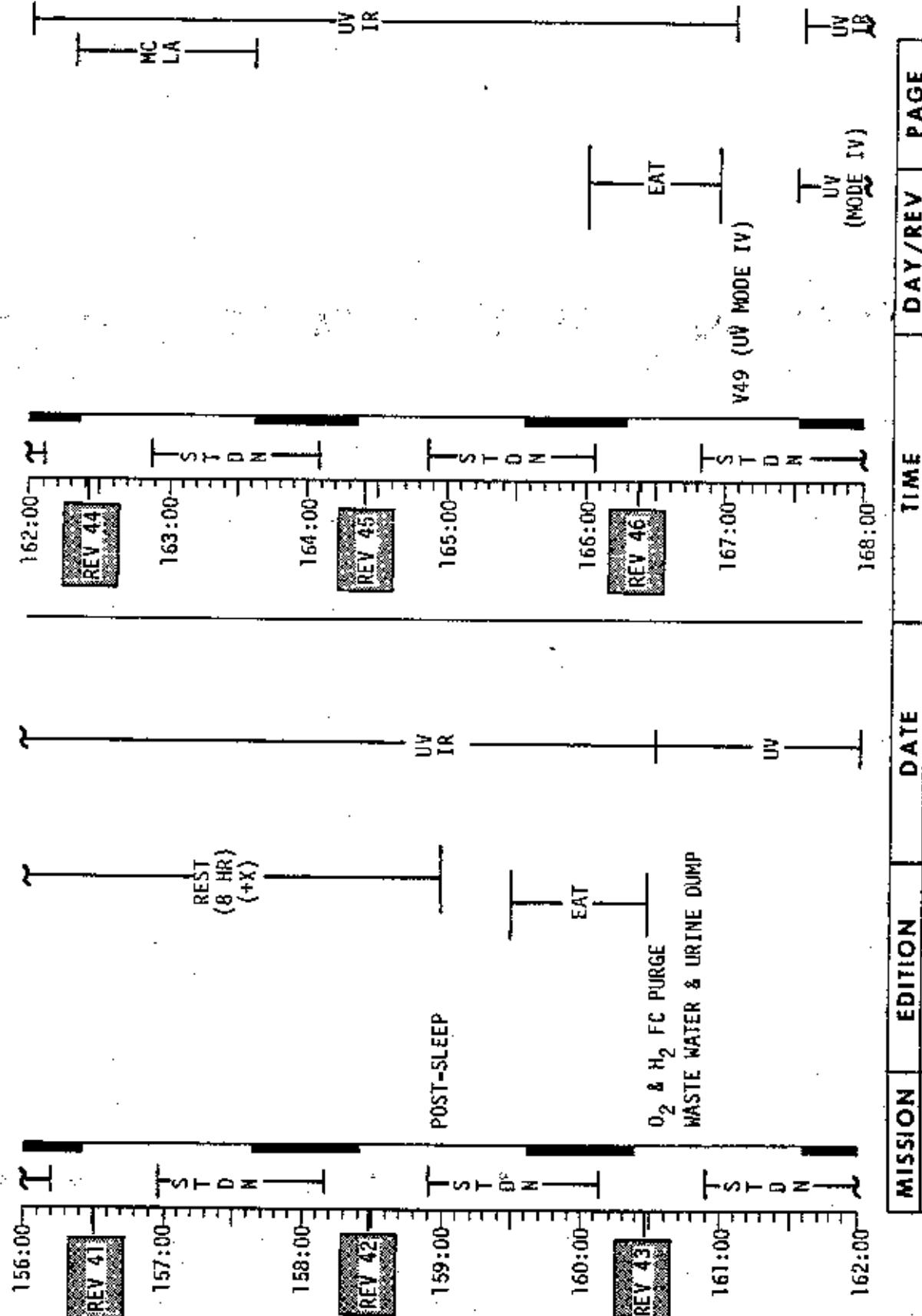
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	144:00 - 156:00	7/35-40	6-49

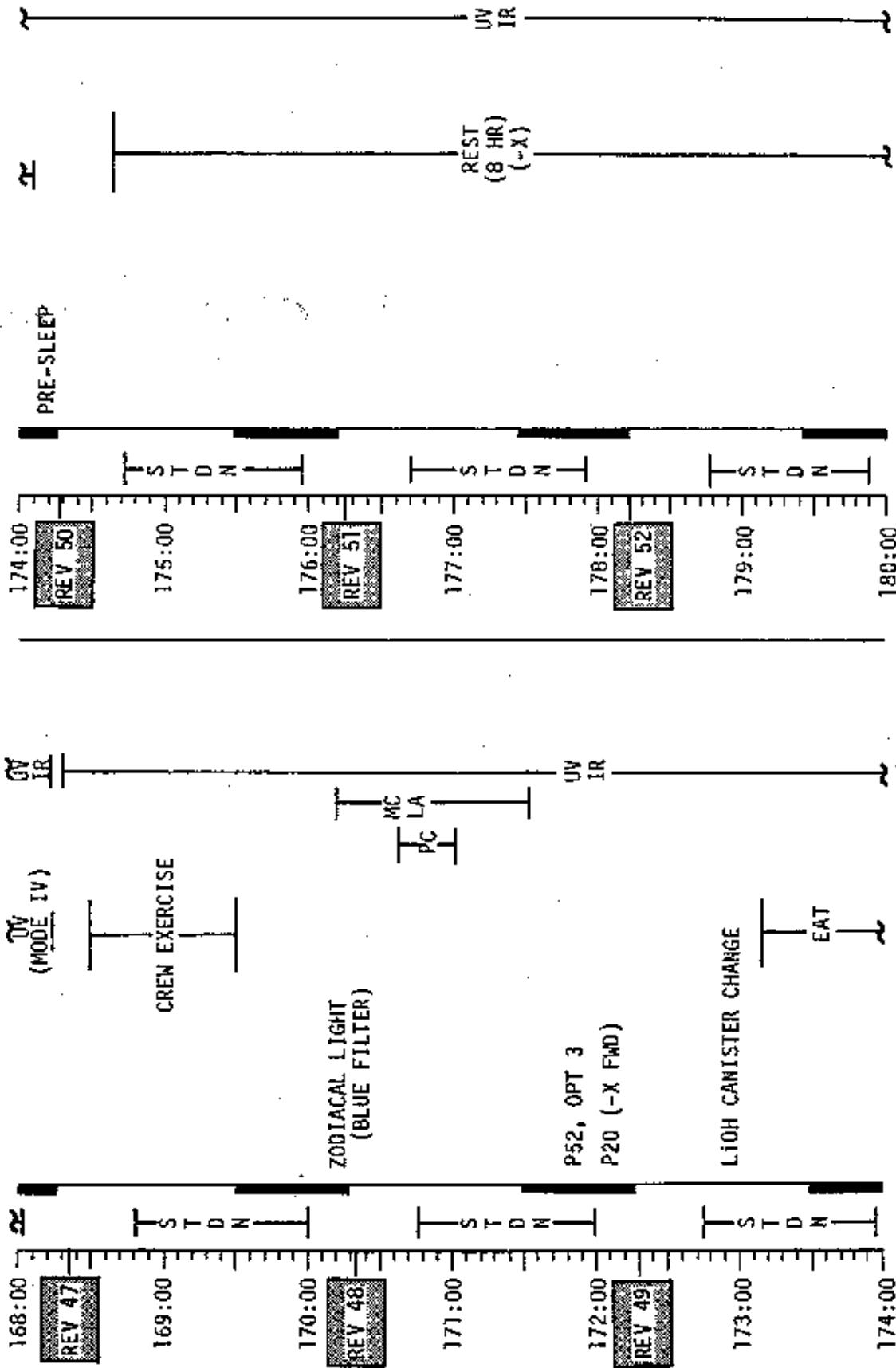
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	156:00 - 168:00	7-B/41-46	6-50

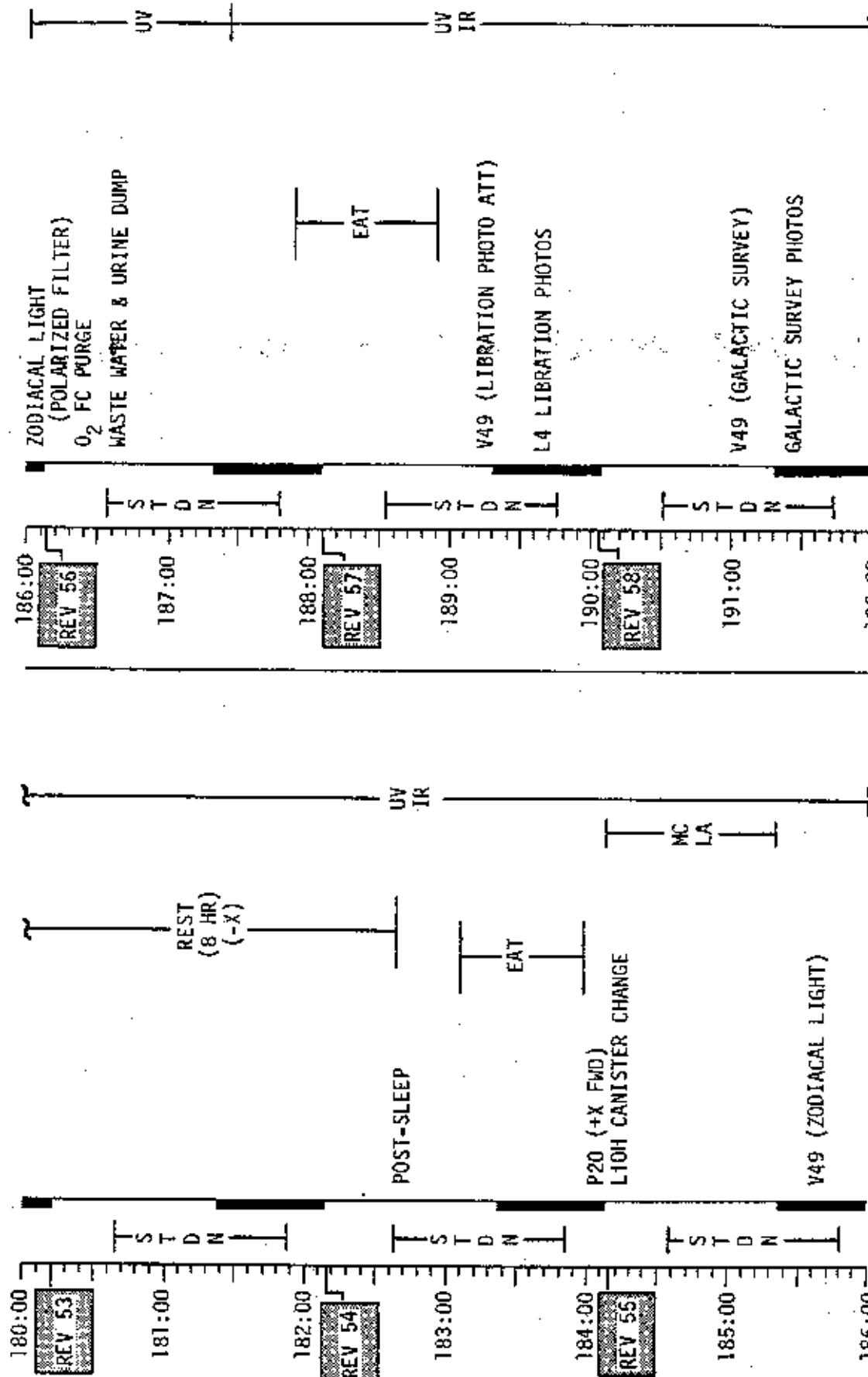
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	168:00 - 180:00	8/47-52	6-51

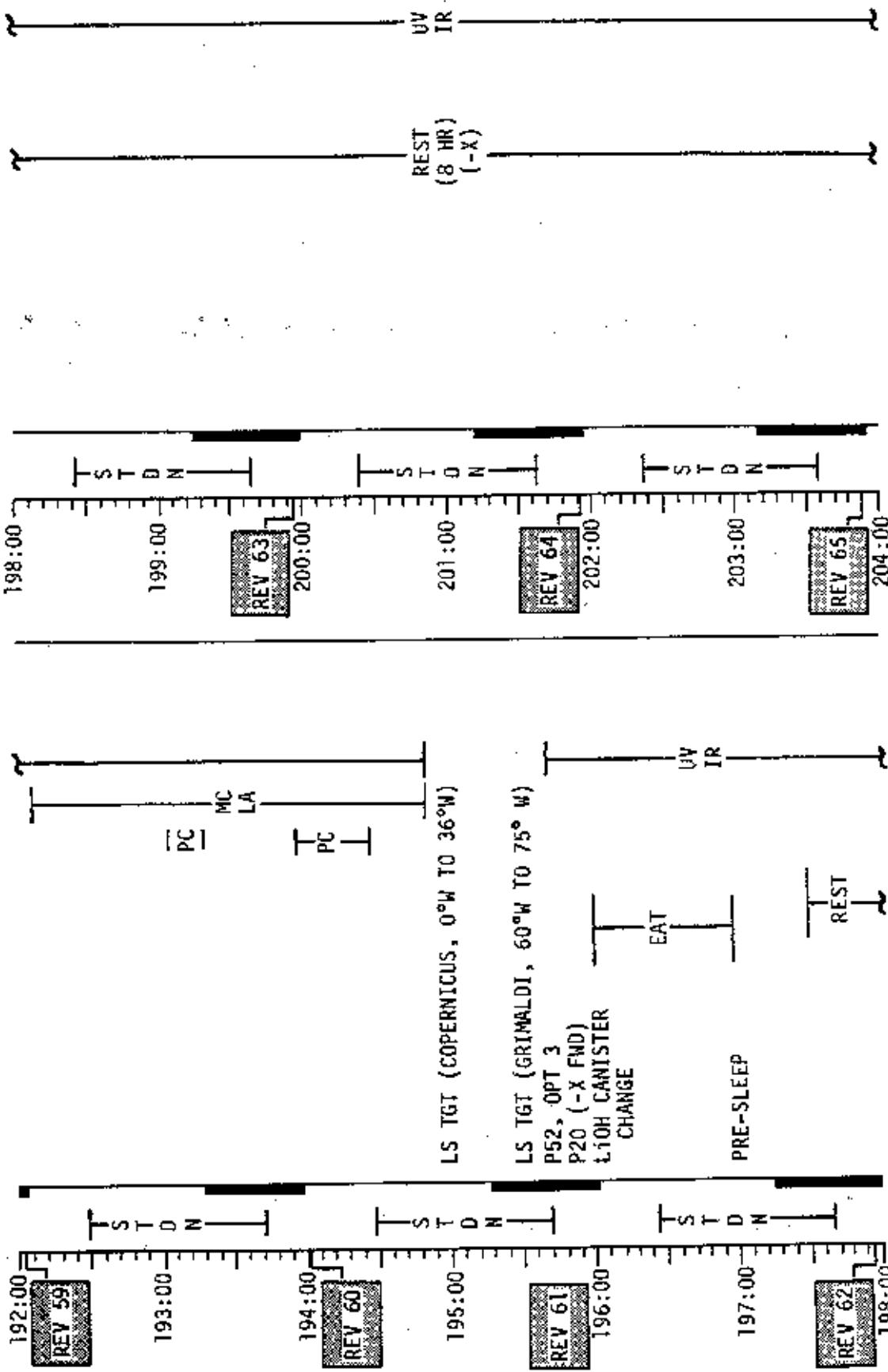
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY / REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	180:00 - 192:00	8-9/53-58	6-52

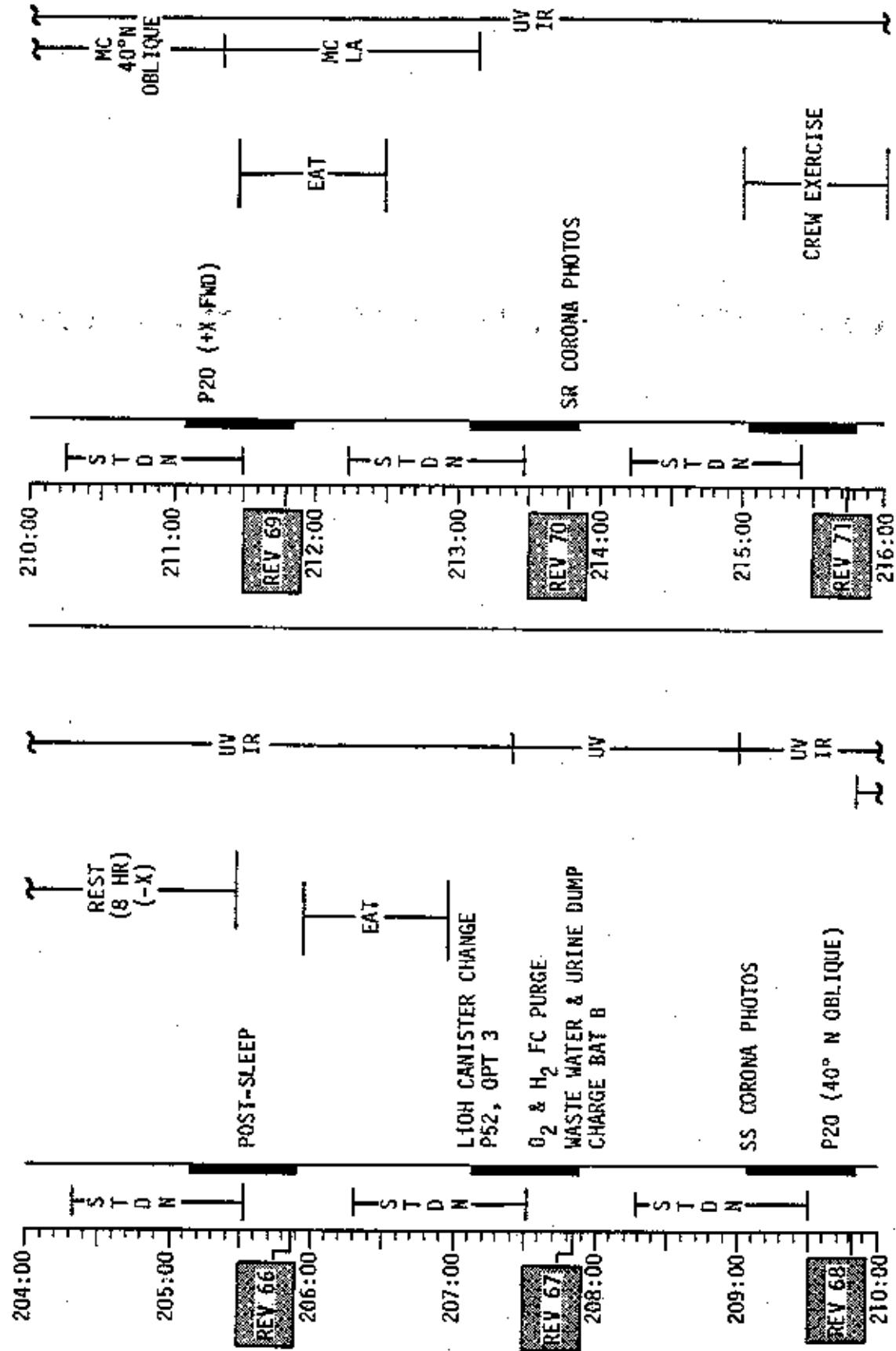
FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	192:00 - 204:00	9/59-65	6-53

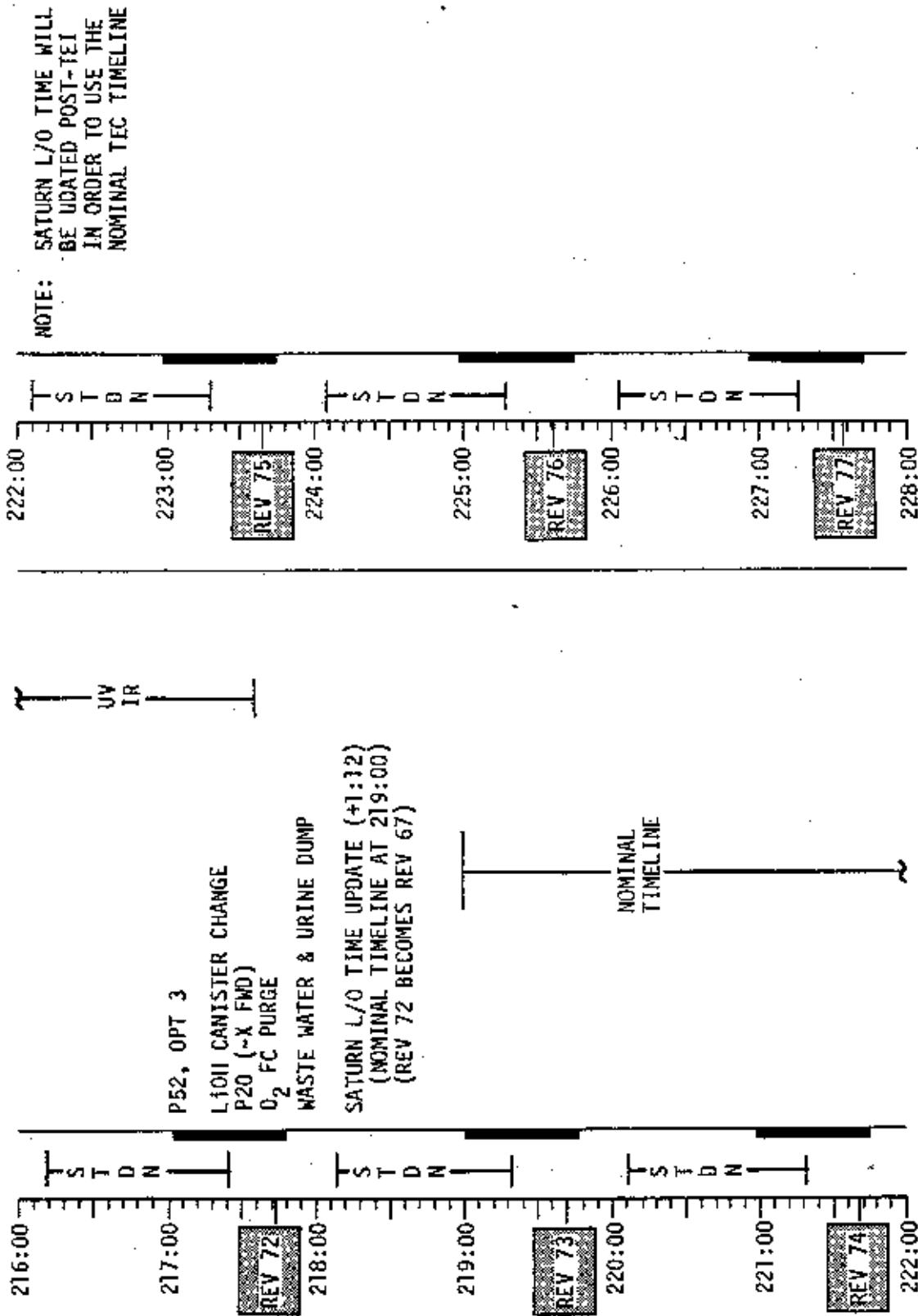
FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	204:00 - 216:00	9-10/66-71	6-54

FLIGHT PLANNING BRANCH

FLIGHT PLAN



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 17	CSM ONLY ALT	23 OCT 1972	216:00 - 228:00	10/71-72	6-55

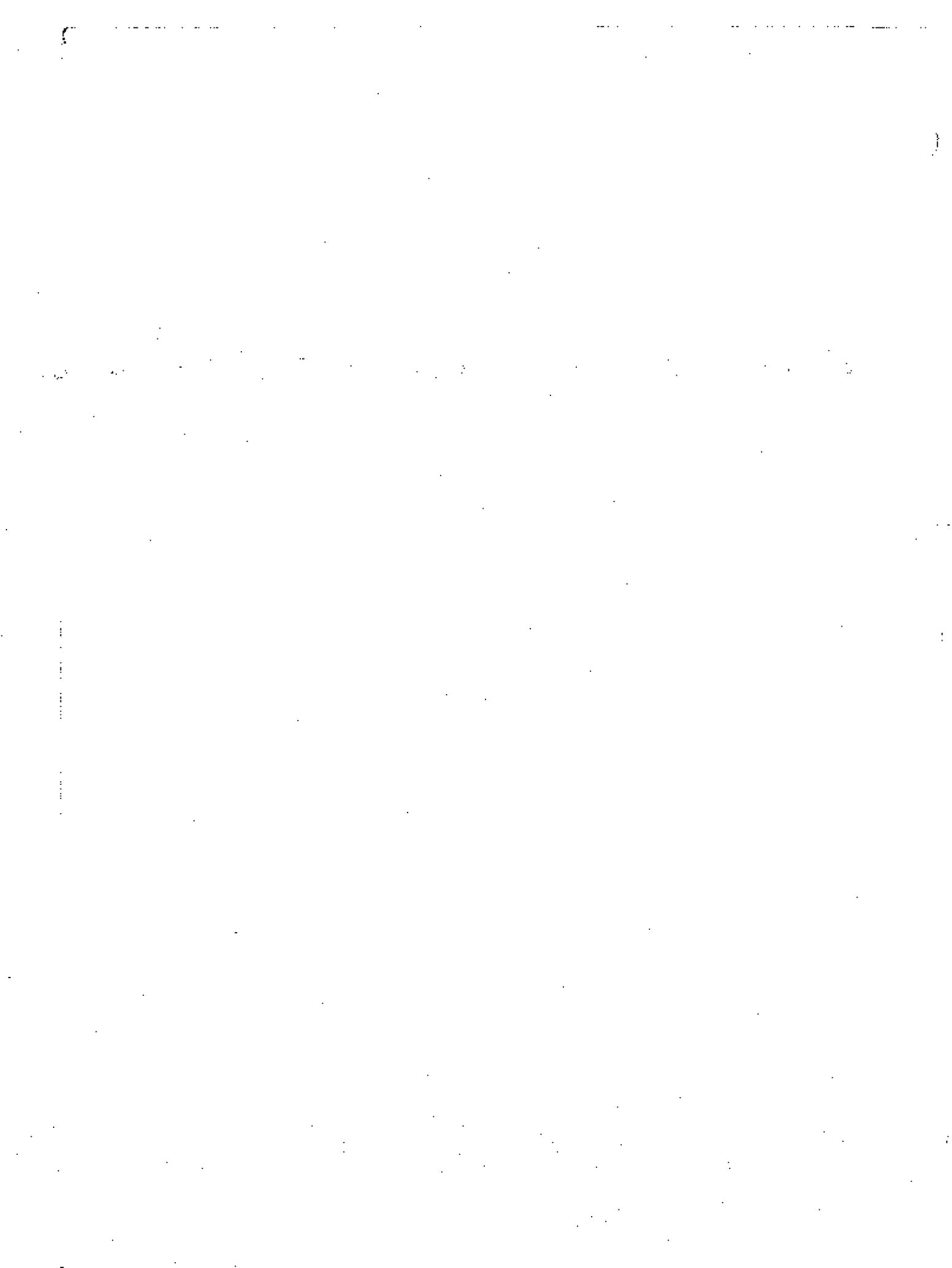
APOLLO 17

FINAL (12/6)

10/23/72

6-56

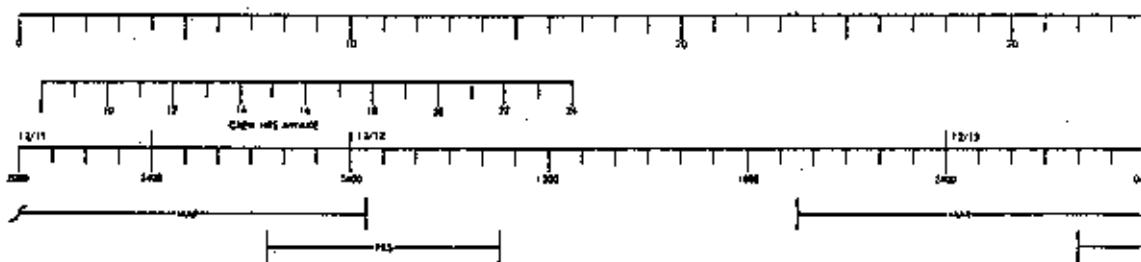
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10/23/72

- ALL PLANTS ASSUME TWO AT-MOST REST OPPORTUNITY
- 12 HRS SINCE CDR WAKEUP

			VIC 10 + 4 EVA (1/2 HR) EVA									
1. 10/23/72/UD	POST-10 EVA EVAPREP	EV-A EV-B EV-C EV-D EV-E EV-F EV-G EV-H EV-I EV-J EV-K EV-L EV-M EV-N EV-O EV-P EV-Q EV-R EV-S EV-T EV-U EV-V EV-W EV-X EV-Y EV-Z	POST-EVA SLEEP EAT EVAPREP	0+5								
<p>* MINIMUM STAY POST-EVA * CHECK STAY 2HRS AT LEO AND MAX 10 HRS AT LEO</p>												
2. 10/23/72/UD	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 11 hrs (1/2 HR) EVA, 1 HR REST, 1 EQUIP REST</p>												
3. 10/23/72/EVA	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 11.5 HR REST, 1 HR EVA, 1 EQUIP REST</p>												
4. 10/23/72/SC	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 12.5 HR REST</p>												
5. 10/23/72/SC	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 13.5 HR REST</p>												
6. 10/23/72/EVA	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 14.5 HR REST, 1 HR EVA, 1 EQUIP REST</p>												
7. Baseline	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 15.5 HR REST</p>												
8. Apollo 17 Nominal	POST-10 CABIN CONFIG EAT PRELEEP	EV-A-1 EV-B-1 EV-C-1 EV-D-1 EV-E-1 EV-F-1 EV-G-1 EV-H-1 EV-I-1 EV-J-1 EV-K-1 EV-L-1 EV-M-1 EV-N-1 EV-O-1 EV-P-1 EV-Q-1 EV-R-1 EV-S-1 EV-T-1 EV-U-1 EV-V-1 EV-W-1 EV-X-1 EV-Y-1 EV-Z-1	REST EVAPREP EAT EVAPREP									
<p>LIC 10 + 16.5 HR REST</p>												



**APOLLO 17
LUNAR SURFACE ALTERNATE MISSIONS
SEPTEMBER 21, 1972**

LUNAR SURFACE ALTERNATE PLANS - NOTES:

1. THIS CHART IS INTENDED AS A GUIDELINE FOR DETERMINING THE MOST EFFICIENT LUNAR-STAY PLAN FOR VARIOUS SURFACE STAY TIMES LESS THAN 10 HOURS. IT IS ASSUMED THAT THE LUNAR DAY IS 24 HOURS AND THAT THE LENGTH OF THE LUNAR STAY WILL BE FEWER THAN 48 OR MORE THAN TWO DAYS DOWNTIME. HOWEVER, ANY OF THE PLANS COULD BE MODIFIED TO ACCOMPLISH SUCCESSIVE STAYS OF 240 HOURS EACH.
2. ALL DATES IN THIS PLAN ARE INDICATED BY THE NUMBER IN EACH BLOCK (E.G., POST-EVA). OTHER TIME INDICES ARE ASSUMED TO BE 10 HOURS AND, WHERE APPROPRIATE, THE LUNAR LENGTH OF DAY IS ON THE HIGH SIDE OF THE PLAN.
3. ALL LIFTOFFS ARE INDICATED AT THE ACTUAL LIFTOFF OF Opportunity. THAT THE TIME ALLOWED IN THE LAST BLOCK IN EACH PLAN MAY NOT EQUAL THE TIME REQUIRED FOR THE ACTIVITIES INDICATED BY AS MUCH AS ONE HOUR IS NOT CONSIDERED UNDESIRABLE.
4. ALL PLANS ARE CONFINED BY A LIMIT OF 16 HOURS FROM WAKEUP TO EVACUATION. THE 16 HOUR LIMIT IS INDICATED BY A HATCHED AREA AT THE END OF EVA. ON THESE PLANS, THOSE WHICH SHOW AN EXCESS OF 16 HOURS DOWNTIME HAS BEEN DELAYED BY UP TO TWO DAYS. NO DELAY GREATER THAN 2 DAYS IS ASSUMED THAT A REST/REST PLAN WILL BE USED.
5. IT IS ASSUMED THAT, FOR A LESS THAN INDIVIDUAL STAY, MAXIMUM EVA TIME IS DESIRABLE. THEREFORE, ALL PLANS EXCEPT THE NOMINAL AND A DAY-EVA PLAN END WITH THE FIRST LIFTOFF. IF MORE THAN A DAY-EVA PLAN IS DESIRED, THE LIFTOFF IS DELAYED BY ONE DAY ONLY AT ACCOMPLISHED AT THE END OF EVA TIME FOR A GIVEN NUMBER OF STAYS. STAYS SHORTER THAN NECESSARY FOR A MINIMUM PLATINUM IS NOT CONSIDERED HERE.
6. THE DAY SCALE AND 240 H. AND 16 H. COVERAGE ARE PROVIDED FOR THE NOMINAL 10 HOUR DAILY.

