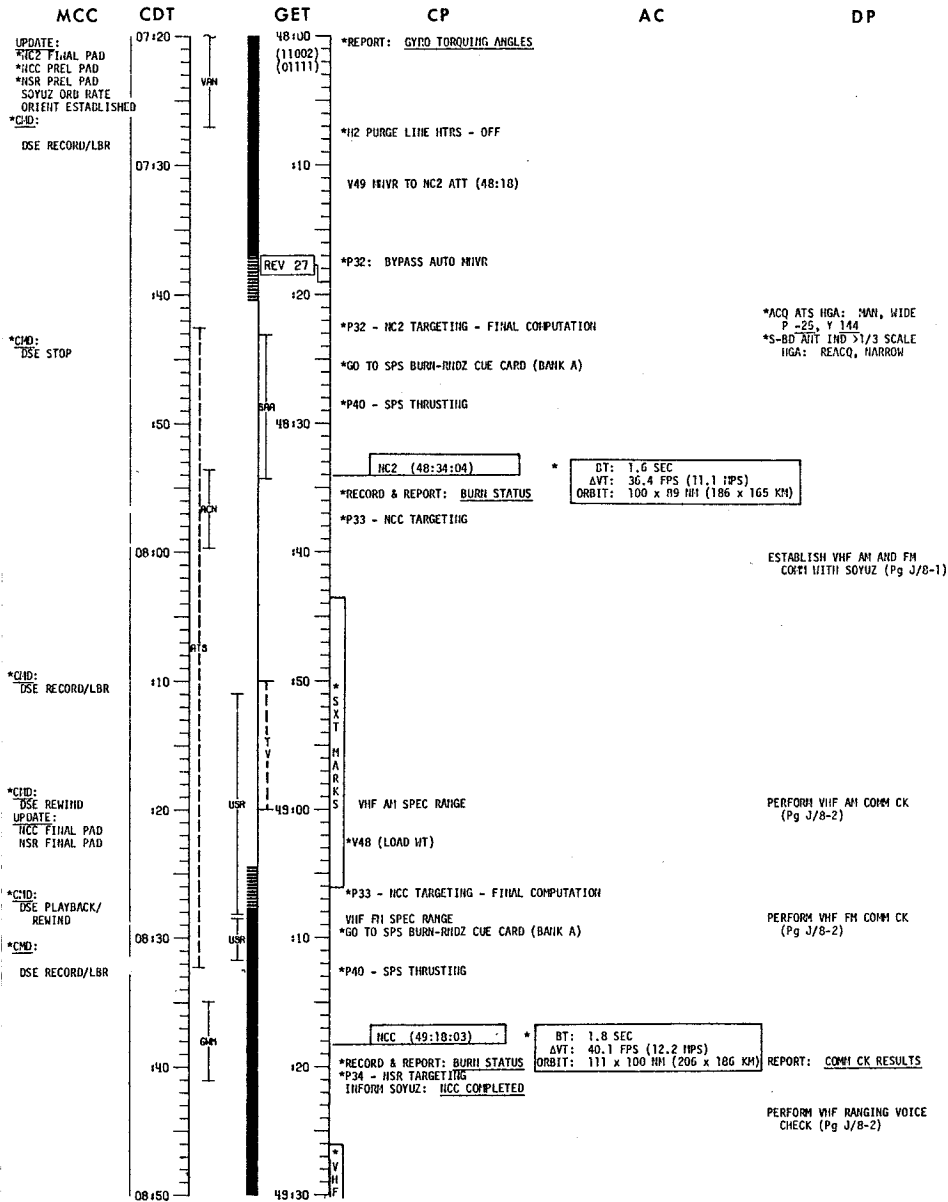


# APOLLO DETAILED CREW ACTIVITIES PLAN

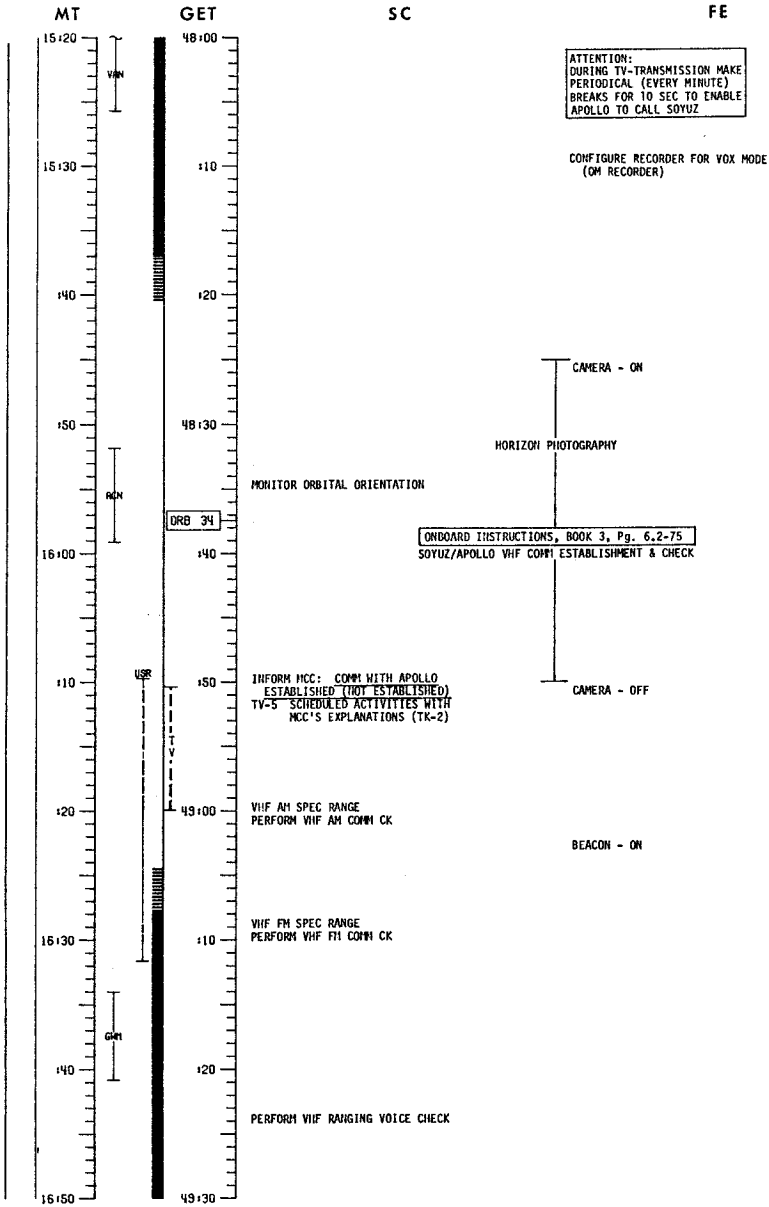
HOUSTON DATE	REV
JULY 17, 1975	26-27



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4,2-2

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 17, 1975	33-34



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4,2-3

## PART A: JOINT CREW ACTIVITY PLAN (CAP)

### APOLLO-SOYUZ TEST PROJECT FINAL FLIGHT PLAN AND JOINT CREW ACTIVITY PLAN

#### WSN SPACEFLIGHT HISTORY SPECIAL REPORT:

ATTENTION:  
DURING TV-TRANSMISSION MAKE  
PERIODICAL (EVERY MINUTE)  
BREAKS FOR 10 SEC TO ENABLE  
APOLLO TO CALL SOYUZ

CONFIGURE RECORDER FOR VOX MODE  
(ON RECORDER)

CAMERA - ON  
HORIZON PHOTOGRAPHY

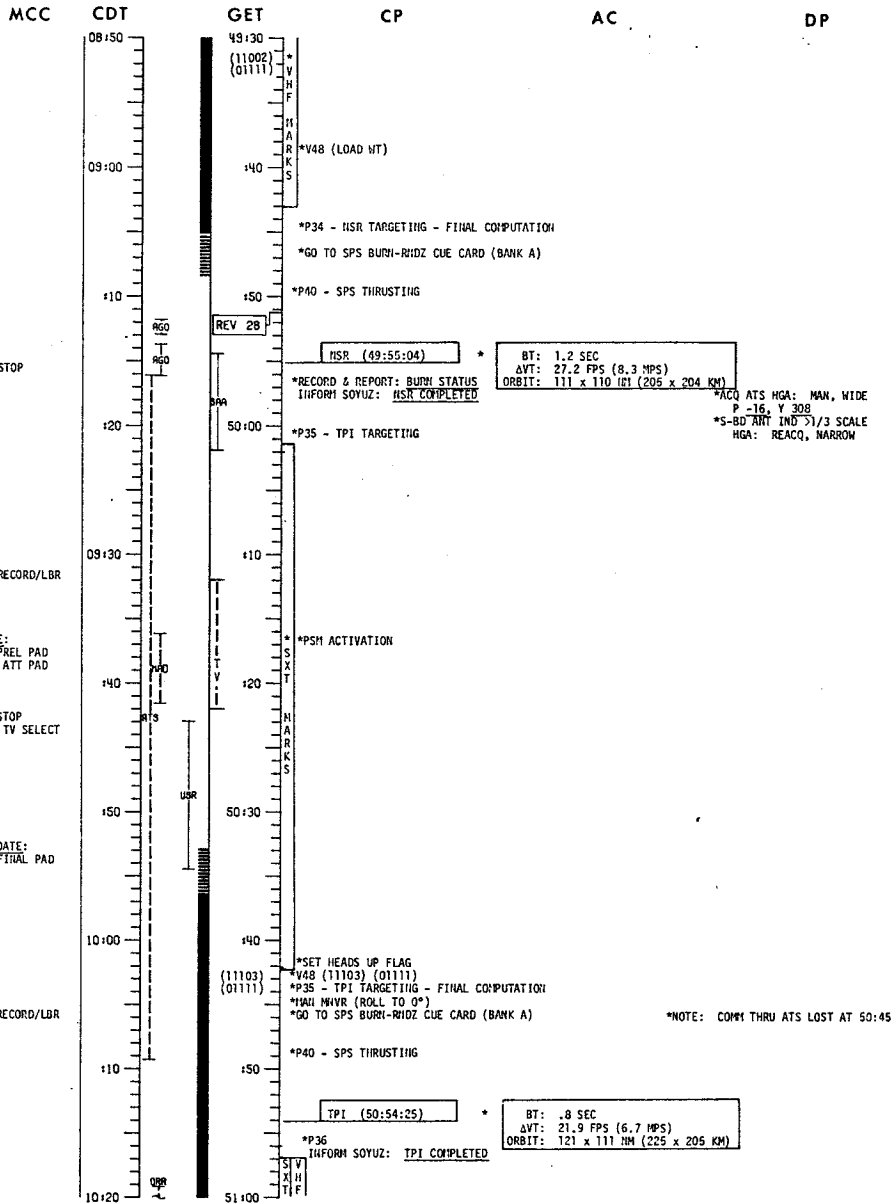
ONBOARD INSTRUCTIONS, BOOK 3, Pg. 6.2-75  
SOYUZ/APOLLO VHF COMM ESTABLISHMENT & CHECK

CAMERA - OFF

BEACON - ON

# APOLLO DETAILED CREW ACTIVITIES PLAN

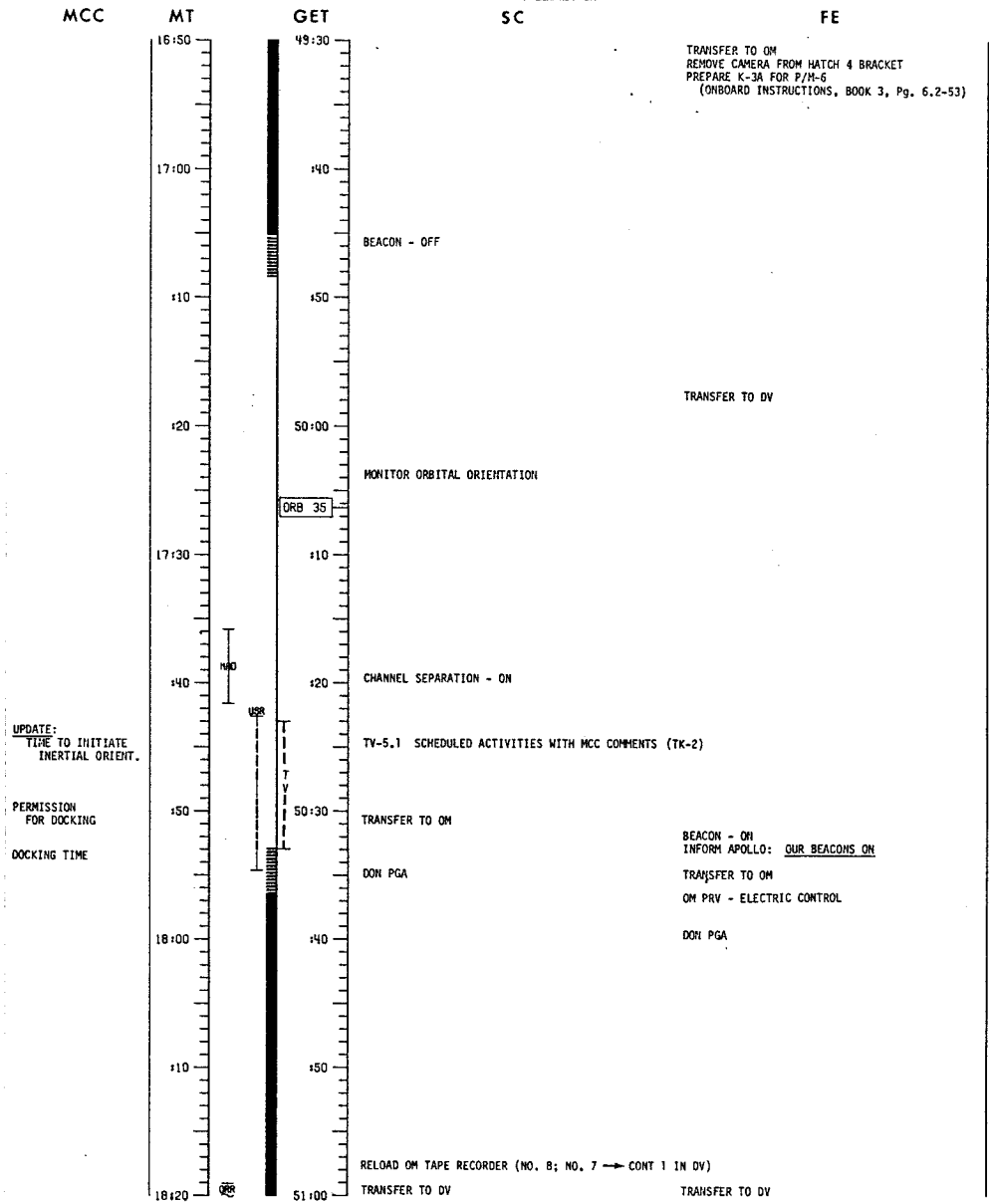
HOUSTON DATE	REV
JULY 17, 1975	27-28



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-4

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 17, 1975	34-35

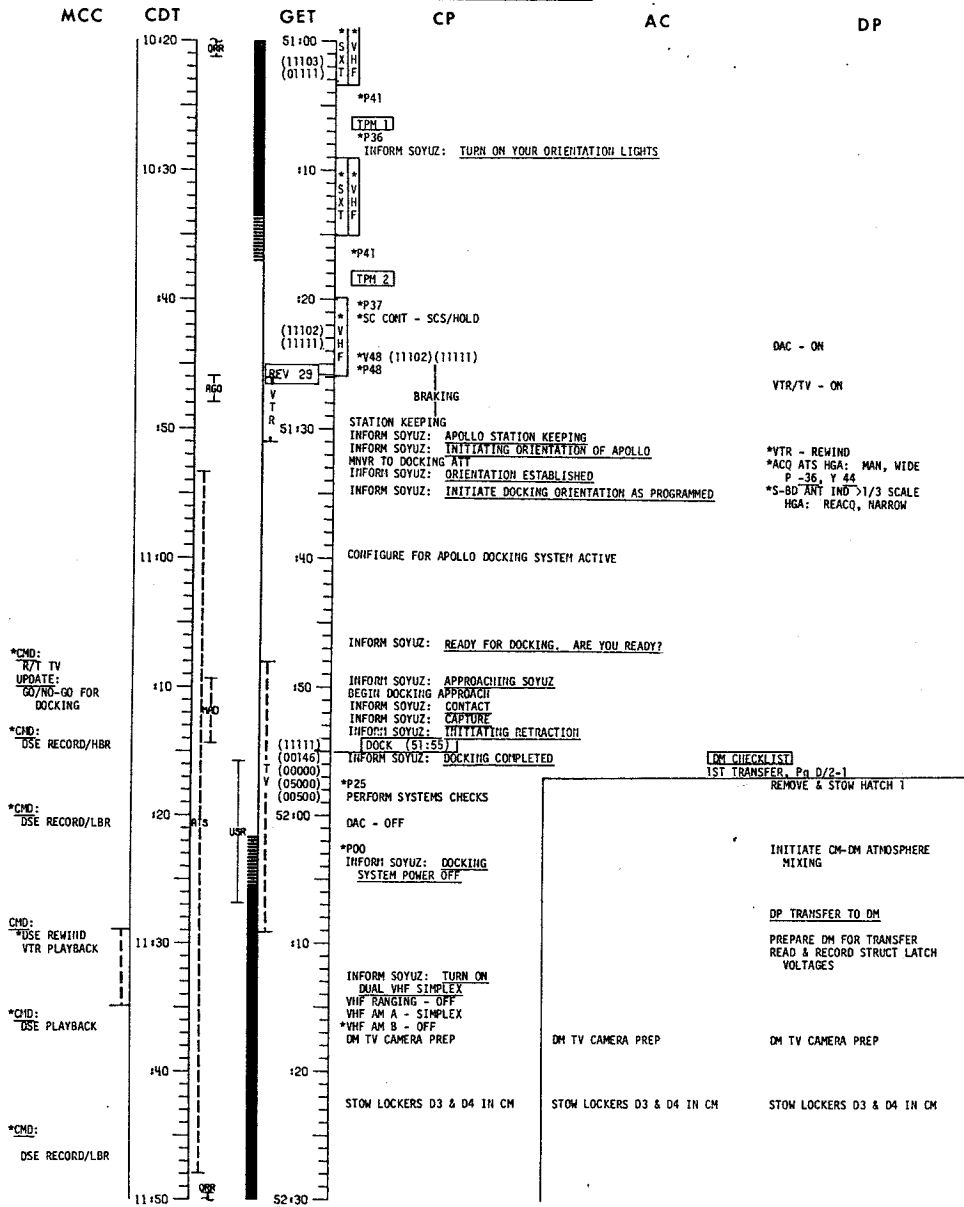


MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-5

# APOLLO DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 17, 1975	20-29

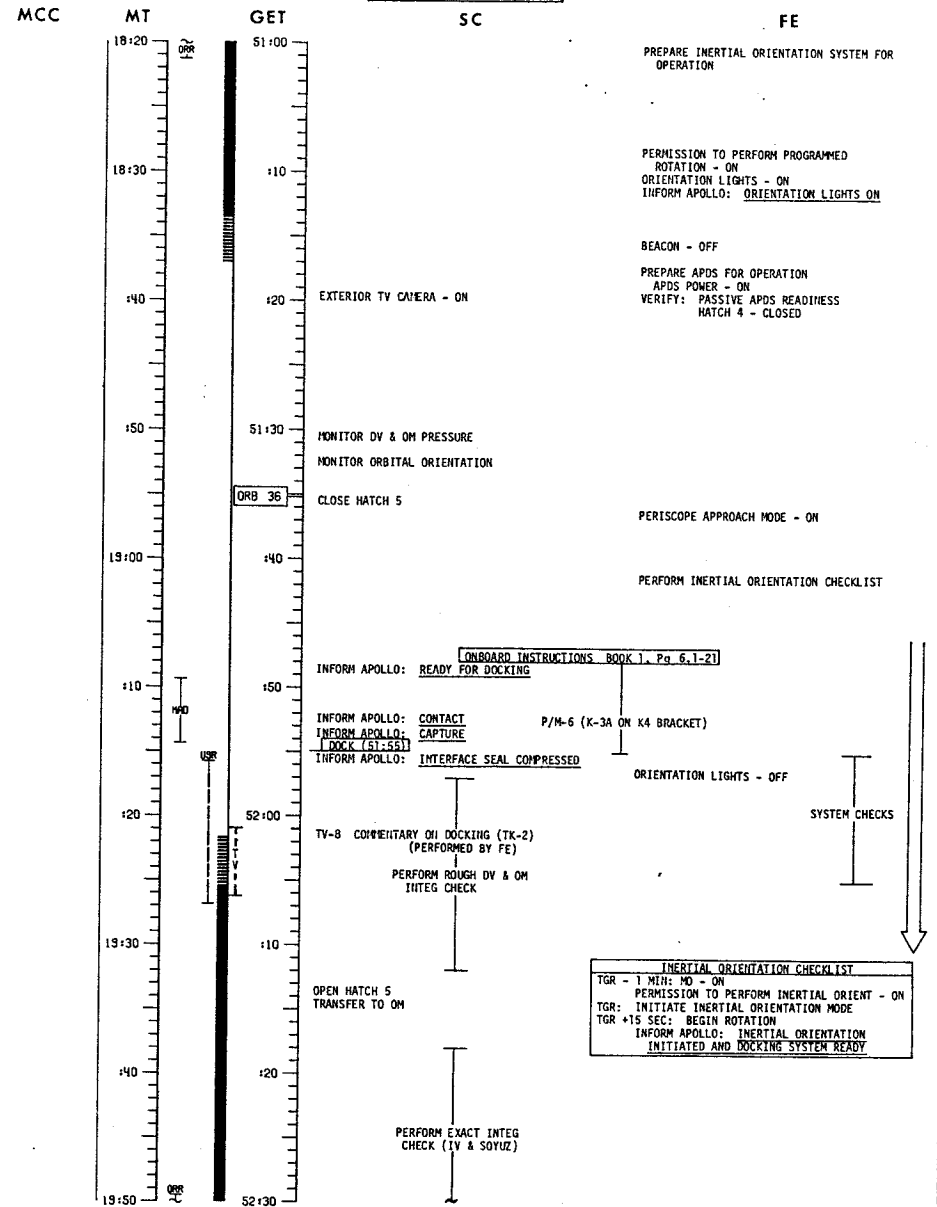
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE THREE



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-6

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 17, 1975	35-36



**INERTIAL ORIENTATION CHECKLIST**  
 TGR - 1 MIN: MO - ON  
 PERMISSION TO PERFORM INERTIAL ORIENT - ON  
 TGR: INITIATE INERTIAL ORIENTATION MODE  
 TGR +15 SEC: BEGIN ROTATION  
 INFORM APOLLO: INERTIAL ORIENTATION INITIATED AND DOCKING SYSTEM READY

MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-7

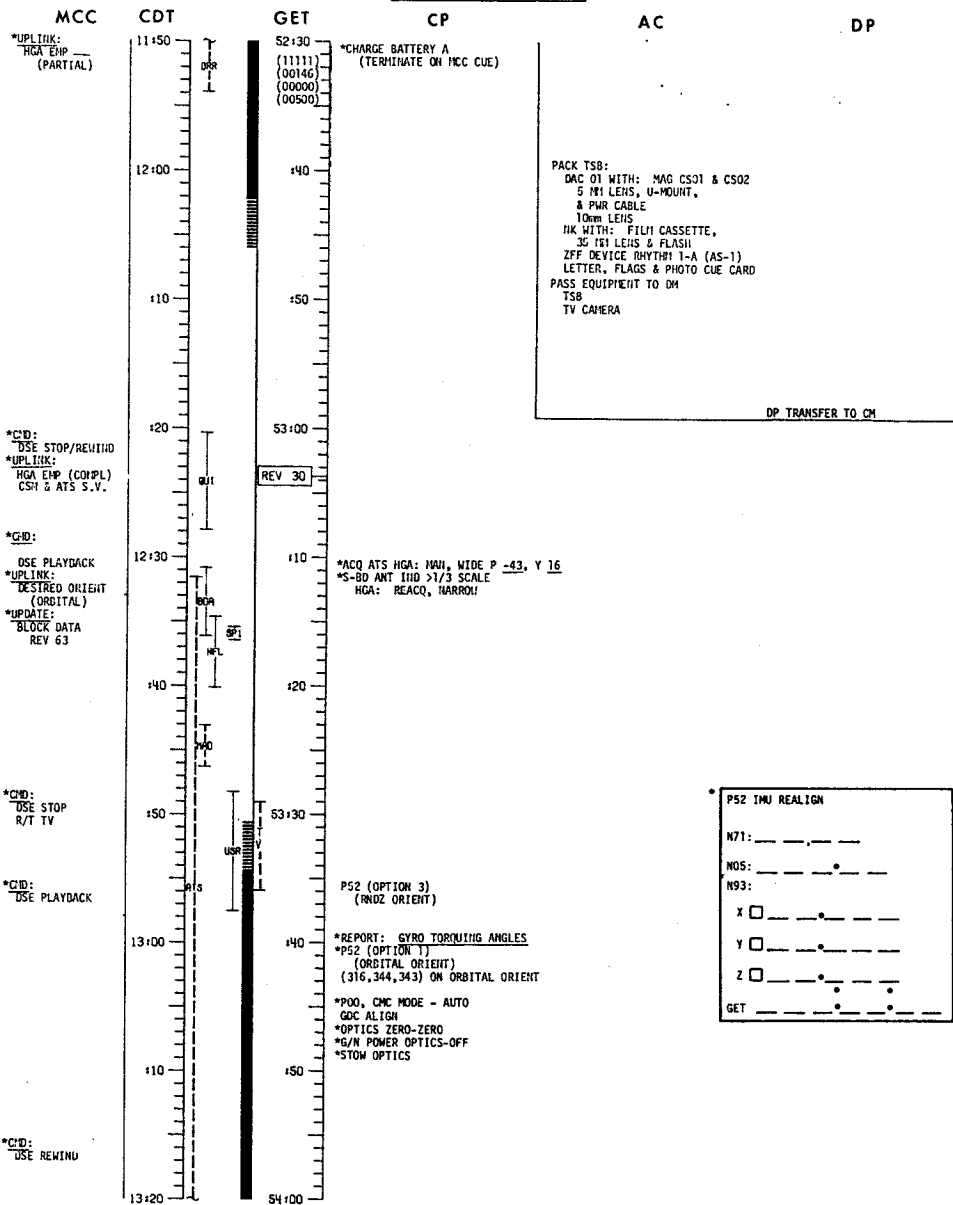
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

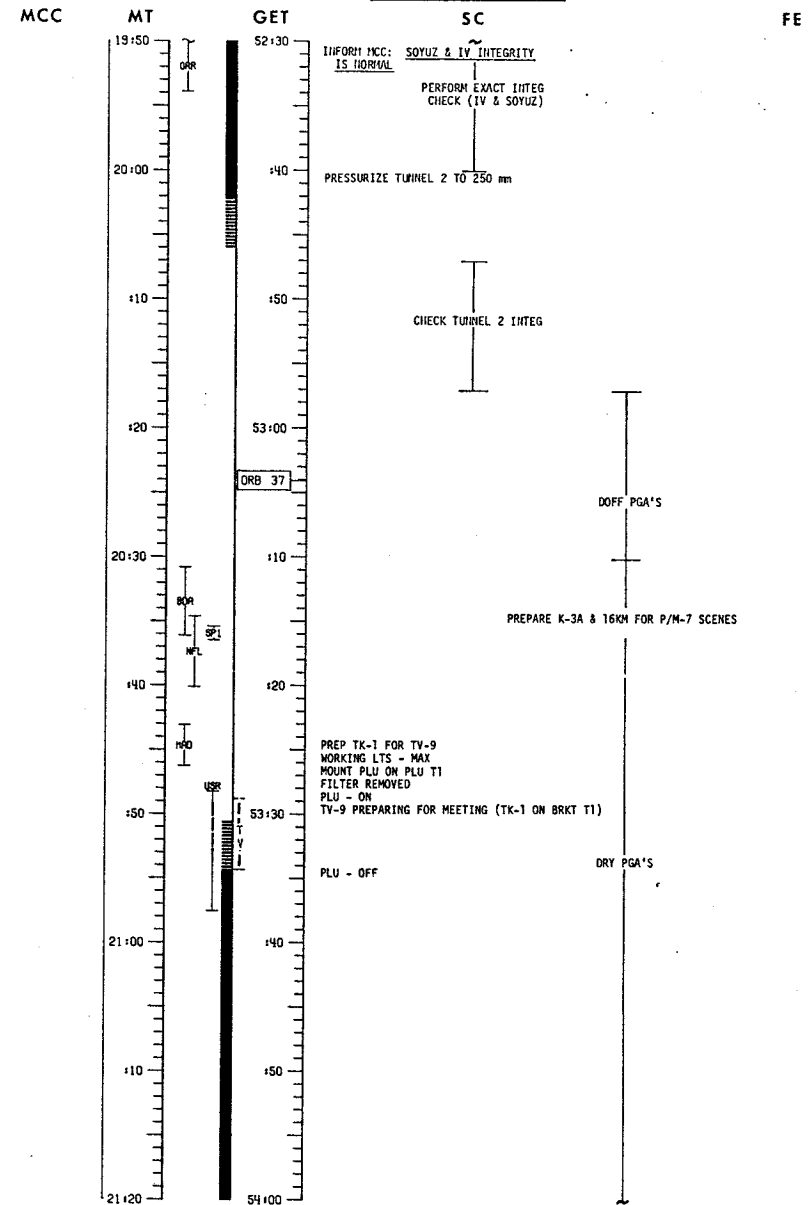
HOUSTON DATE	REV
JULY 17, 1975	29-30

MOSCOW DATE	ORB
JULY 17, 1975	36-37

WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE FOUR



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-8



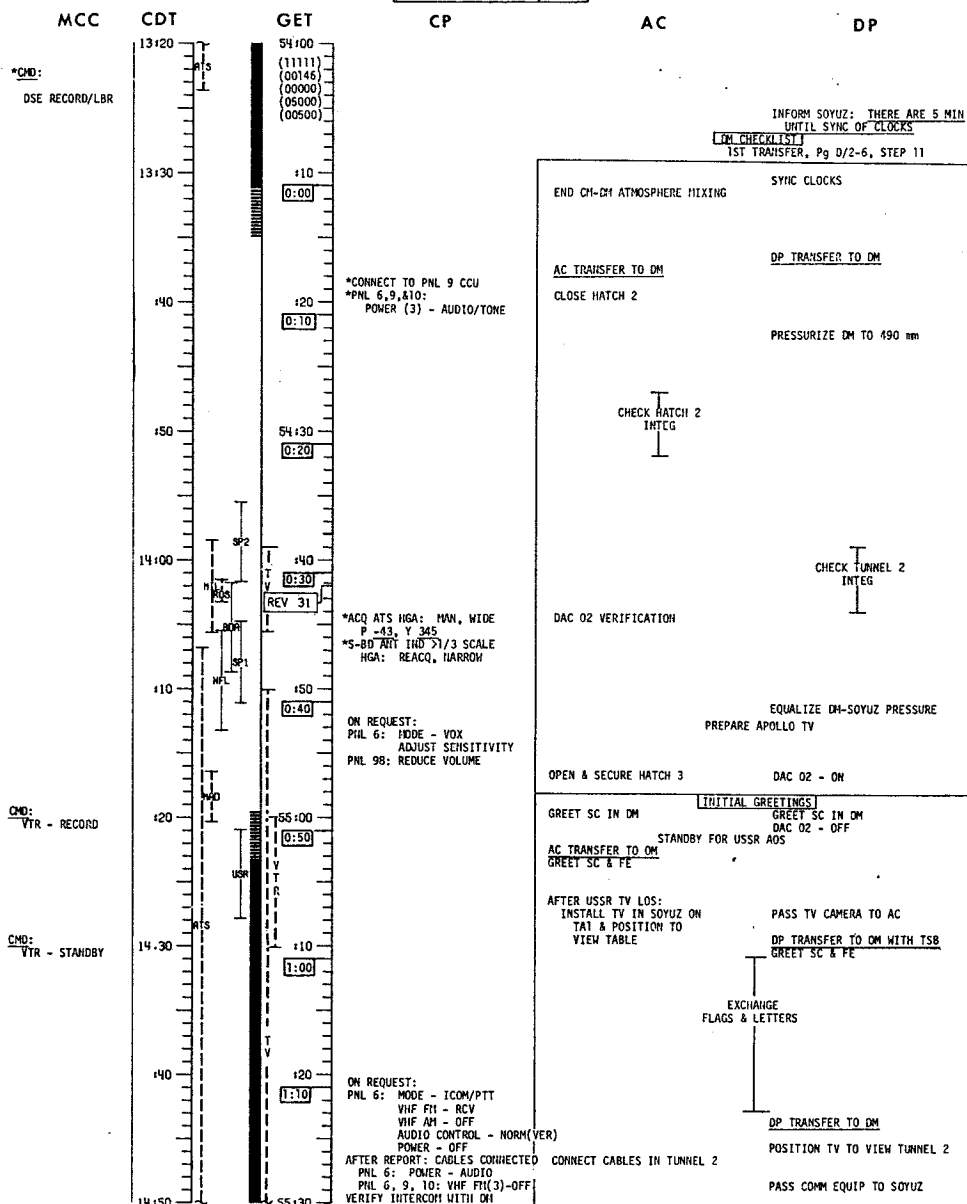
MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-9

# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

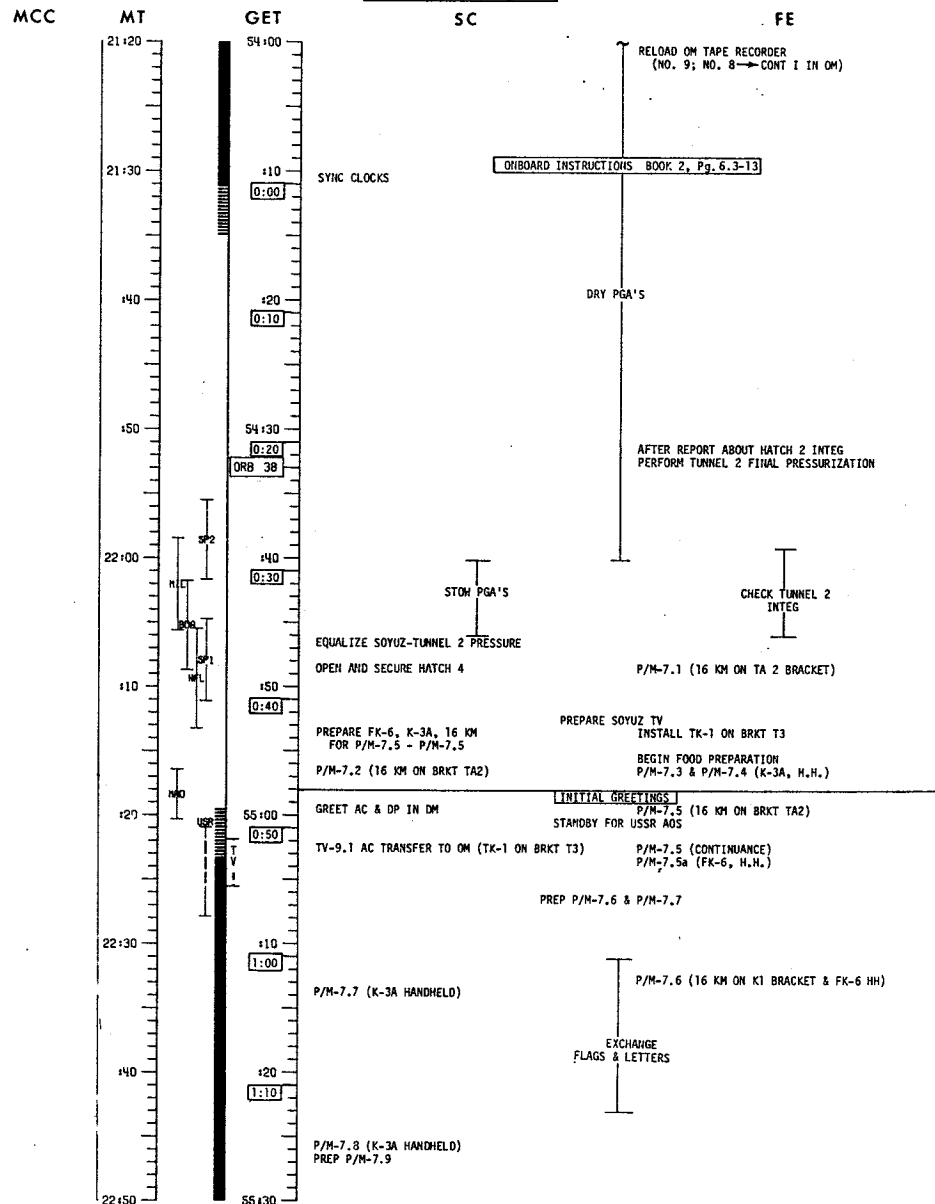
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE FIVE

HOUSTON DATE	REV
JULY 17, 1975	30-31



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-10

MOSCOW DATE	ORB
JULY 17, 1975	37-38



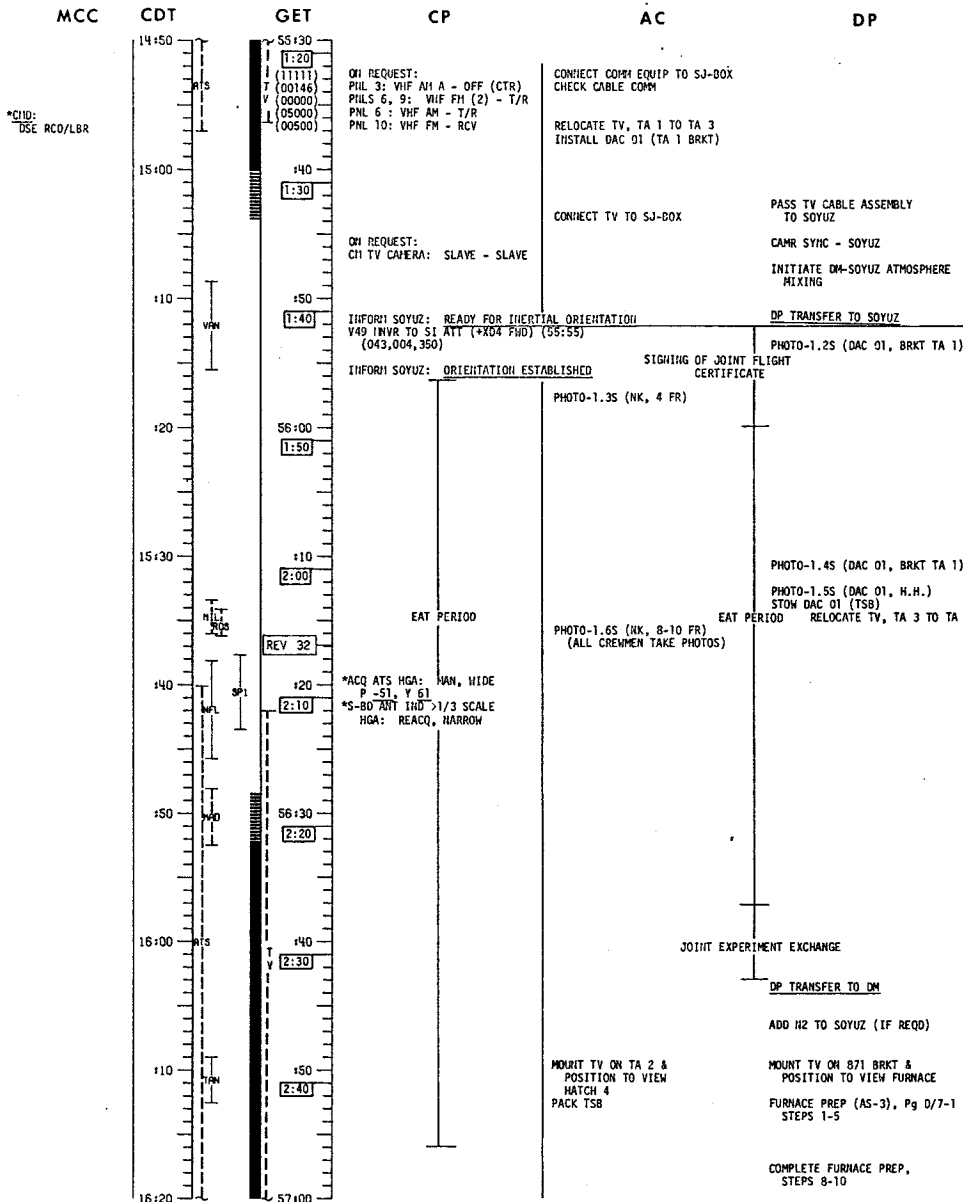
MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-11

# APOLLO DETAILED CREW ACTIVITIES PLAN

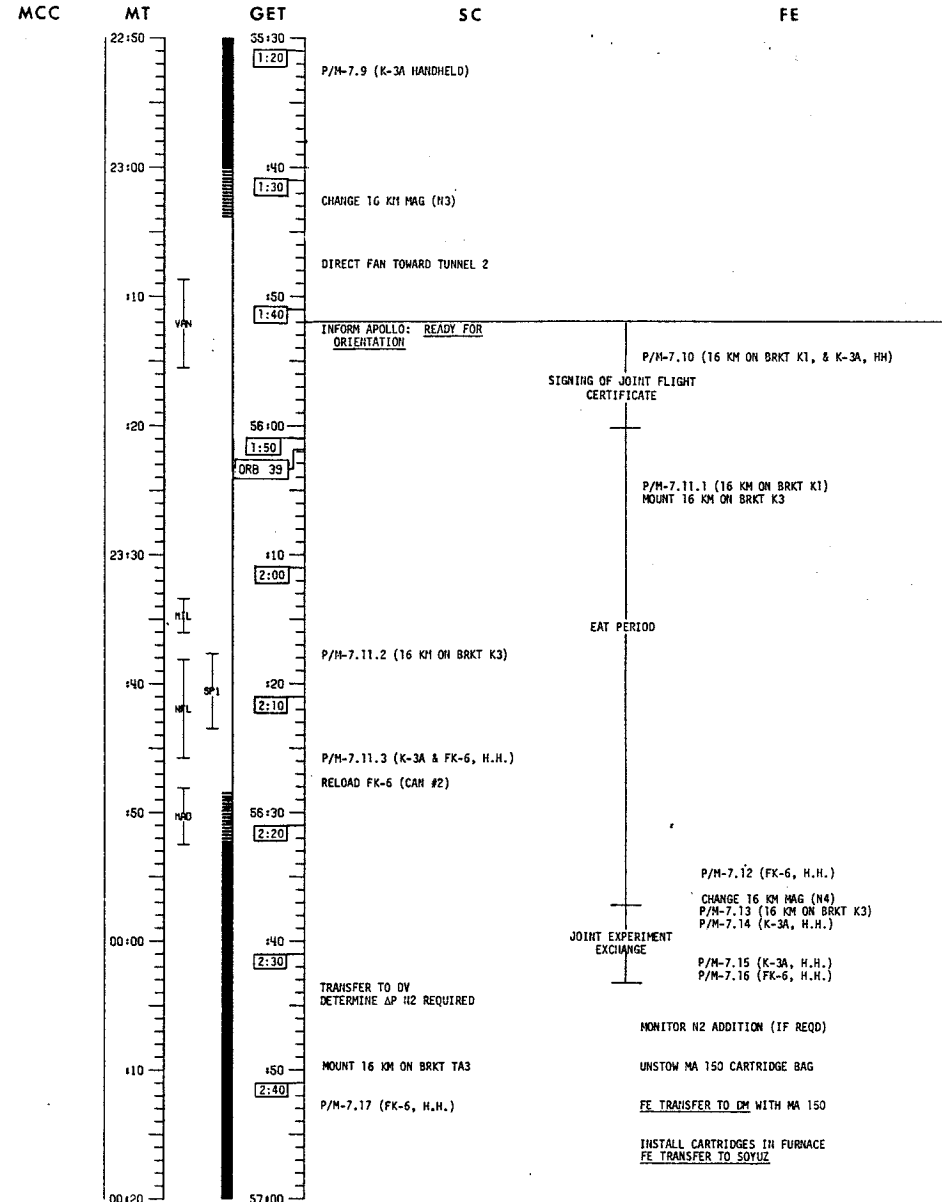
# SOYUZ DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 17, 1975	31-32

MOSCOW DATE	ORB
JULY 17, 1975	38-39



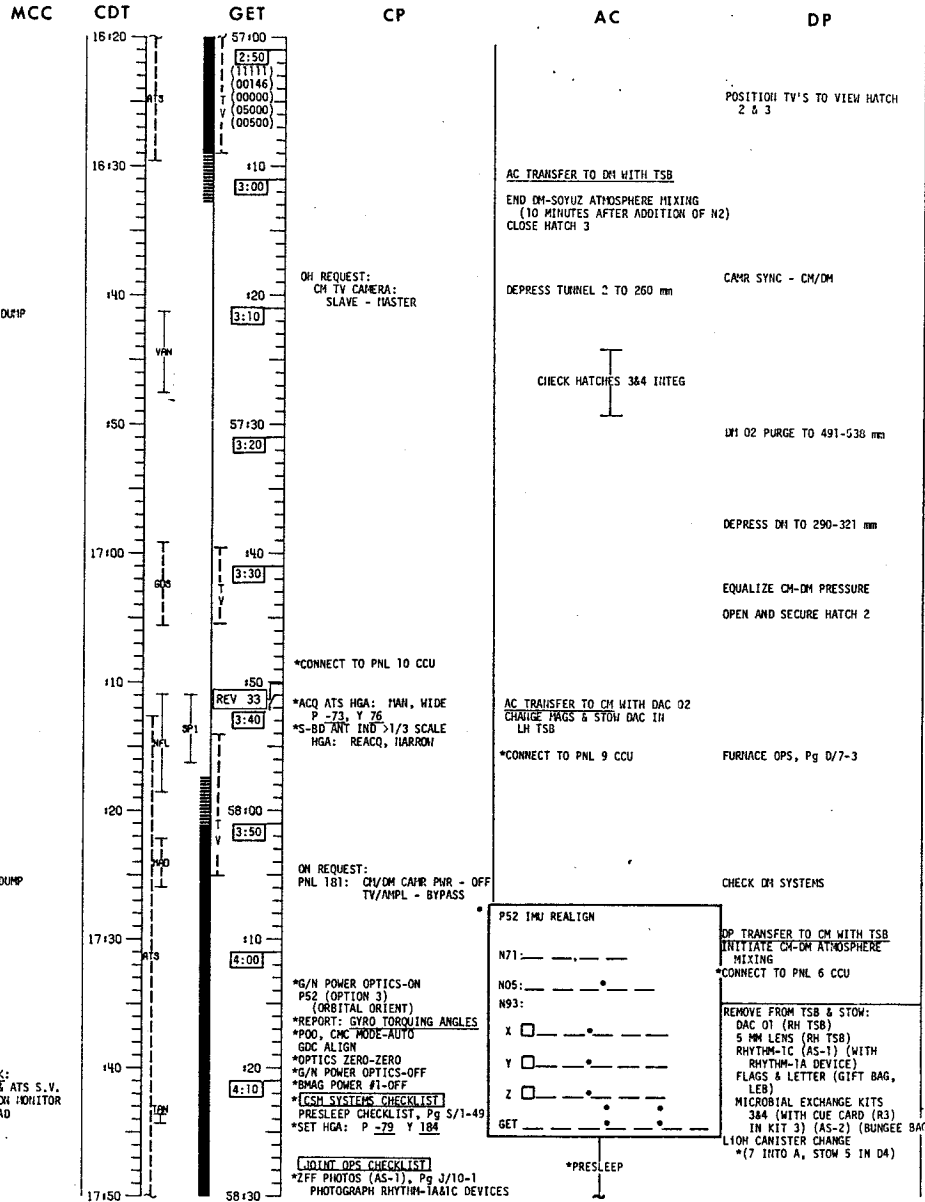
MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-12



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-13

# APOLLO DETAILED CREW ACTIVITIES PLAN

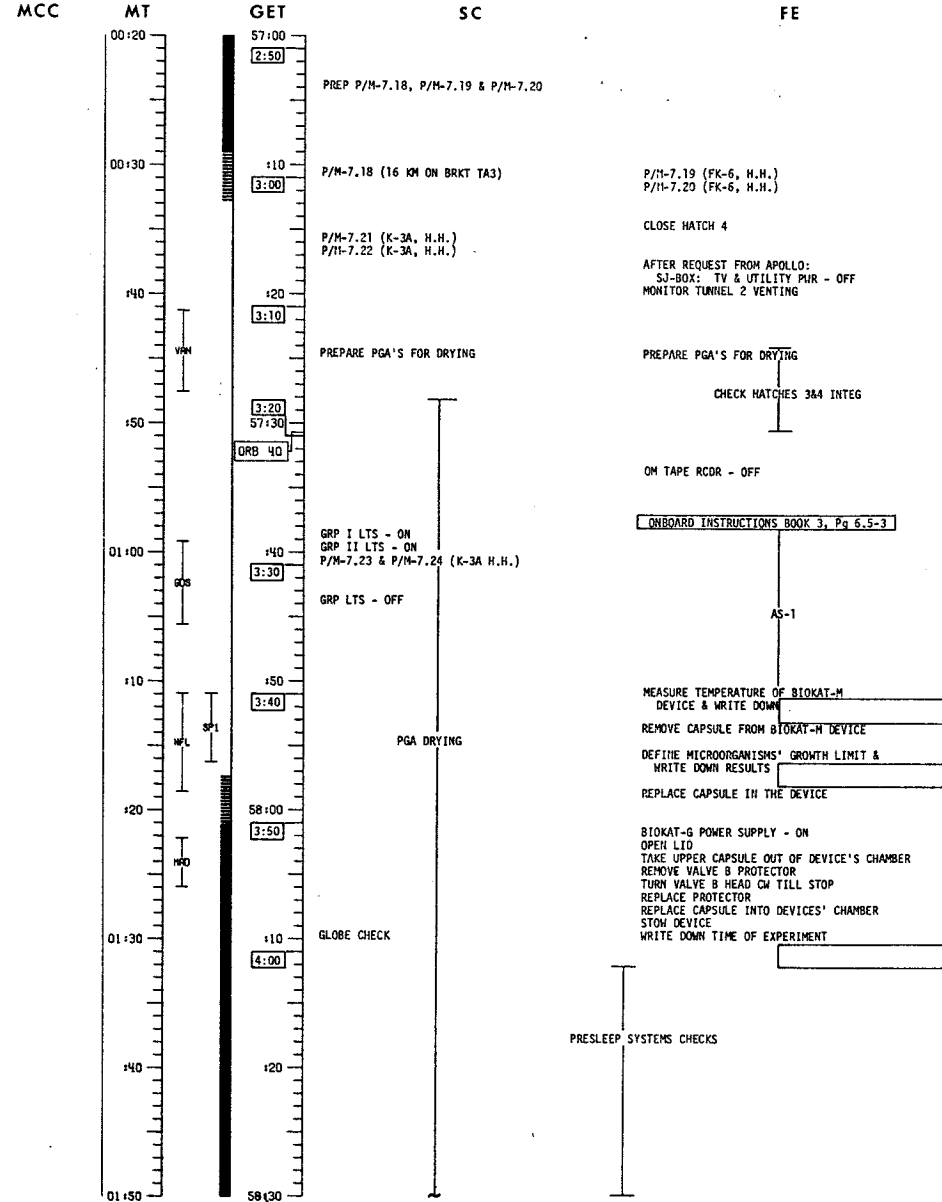
HOUSTON DATE	REV
JULY 17, 1975	32-33



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-14

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 18, 1975	39-40



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-15

\*CMD: DSE DUMP

\*CMD: DSE DUMP

\*UPLINK:  
CSH & ATTS S.V.  
JET-ON MONITOR  
LOAD

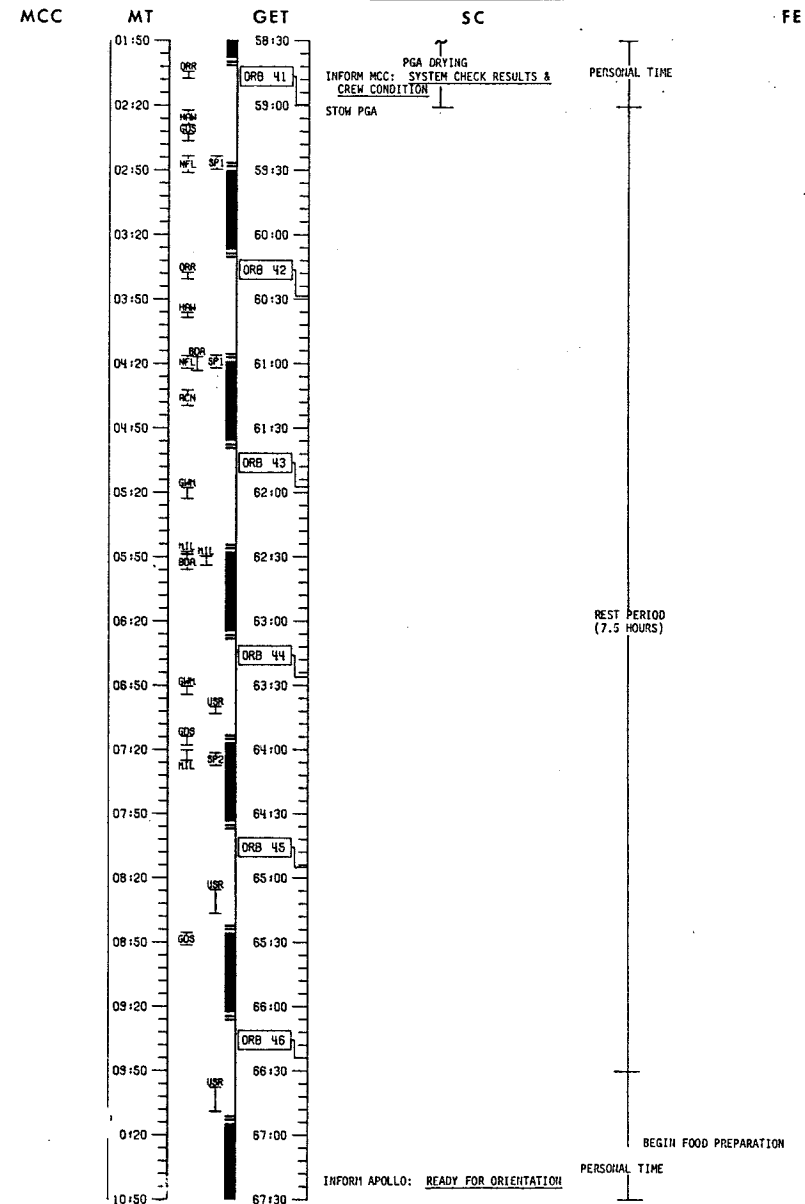
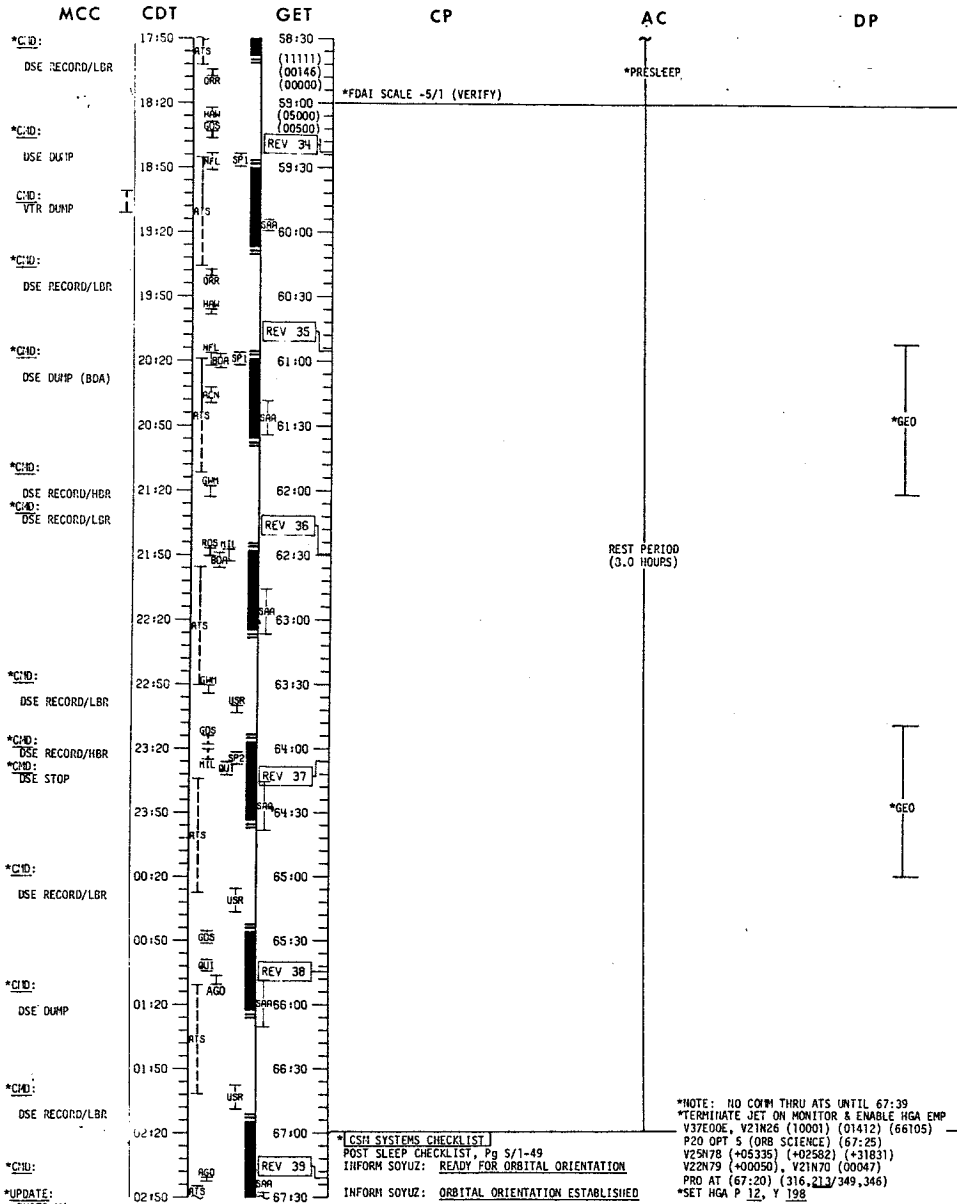
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 17, 1975	33-39

MOSCOW DATE	ORB
JULY 18, 1975	40-46

WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE EIGHT





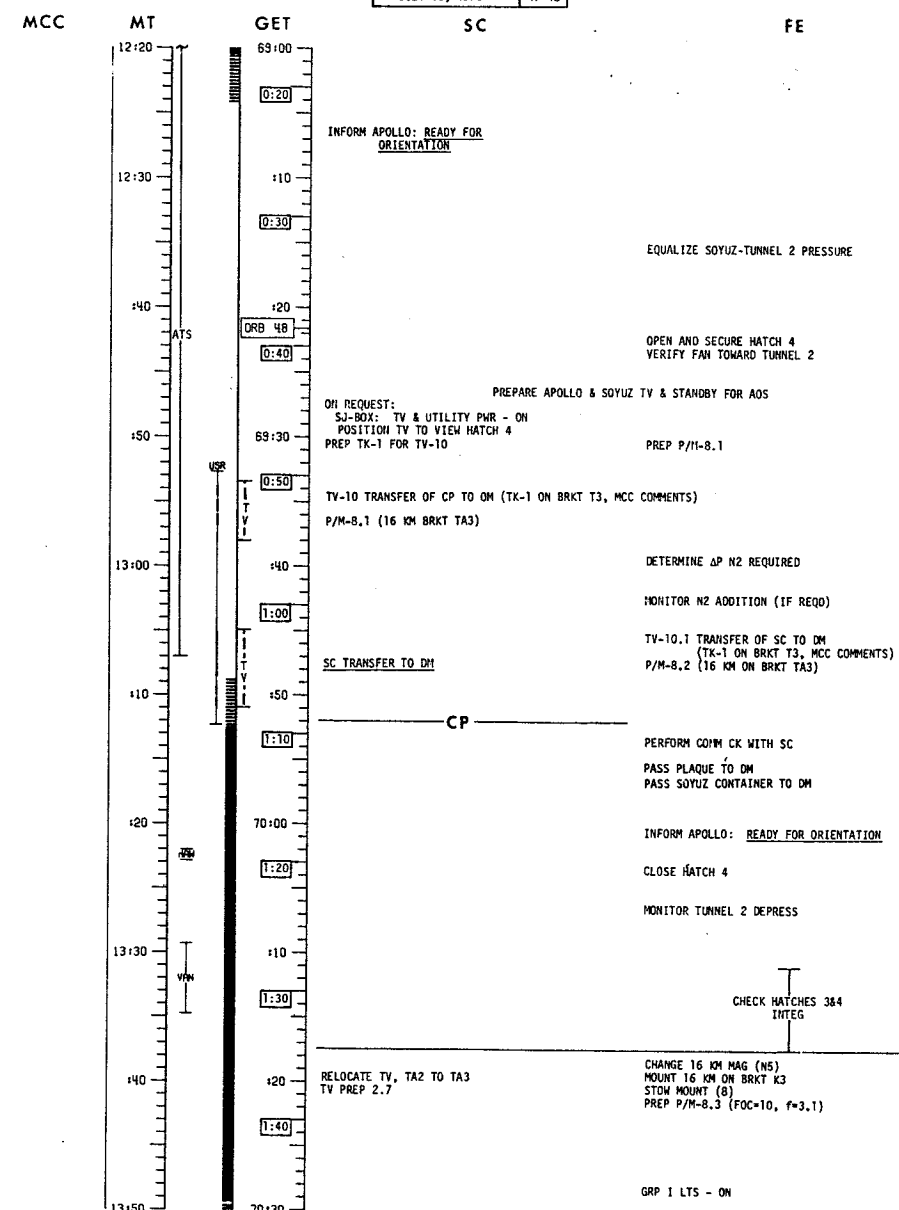
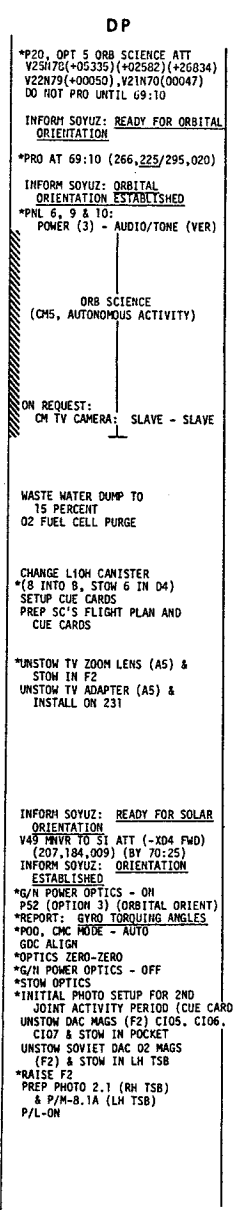
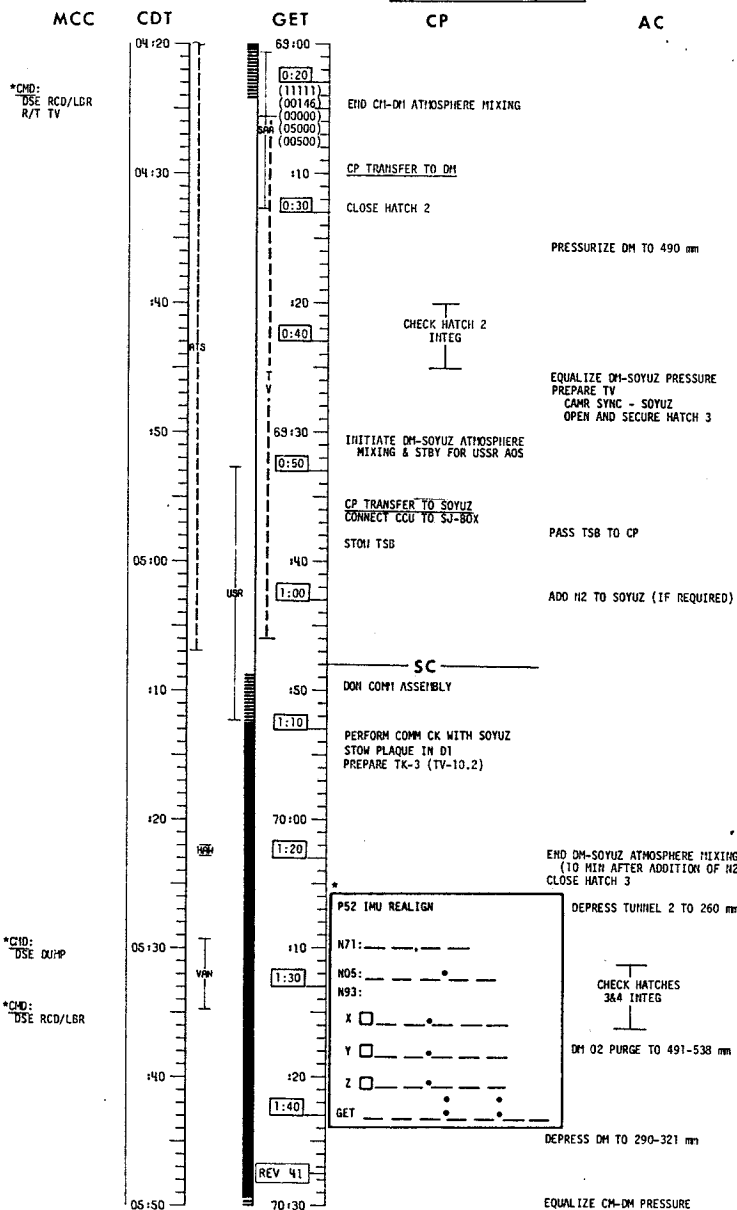


# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 18, 1975	40-41

MOSCOW DATE	ORB
JULY 18, 1975	47-48



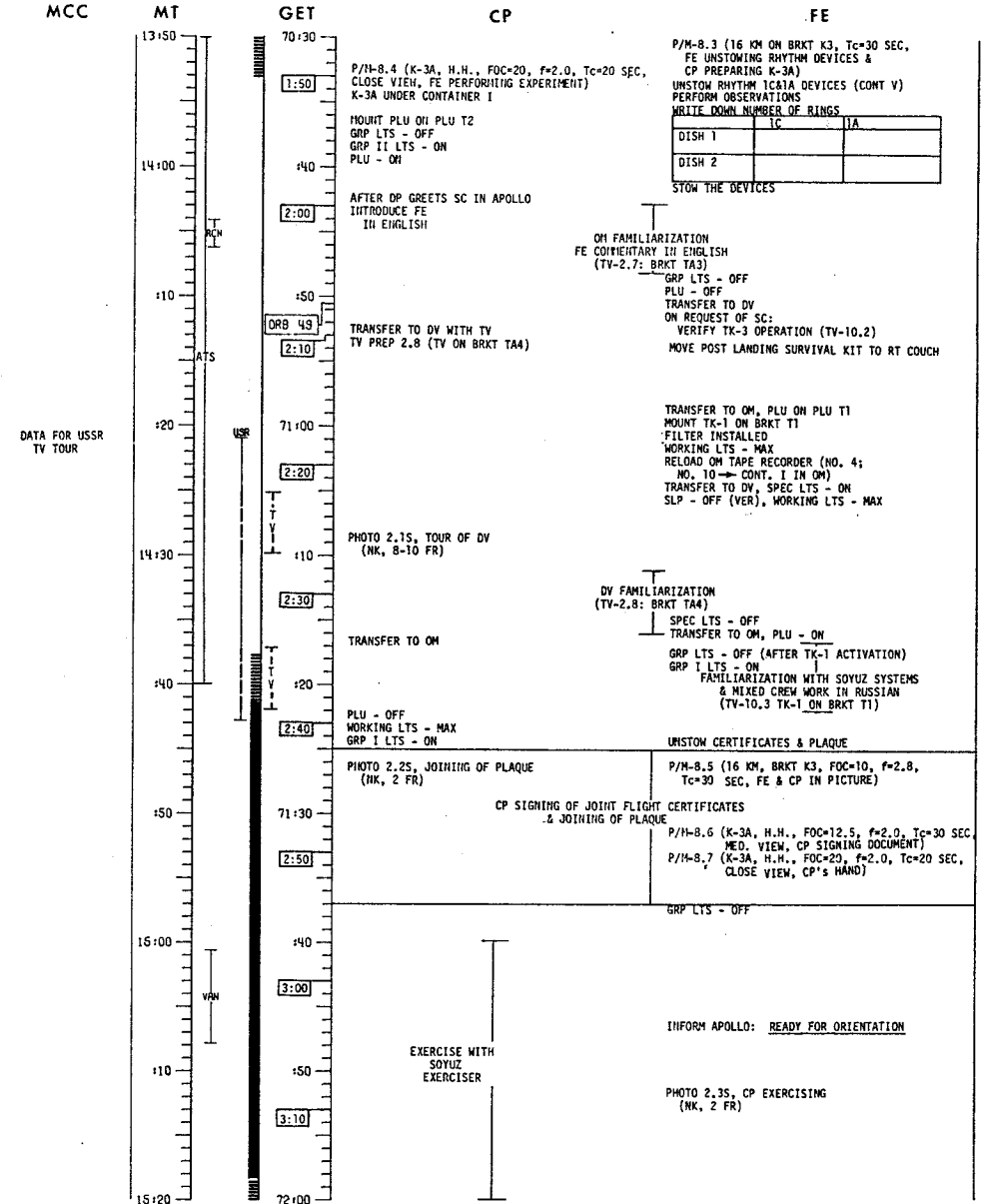
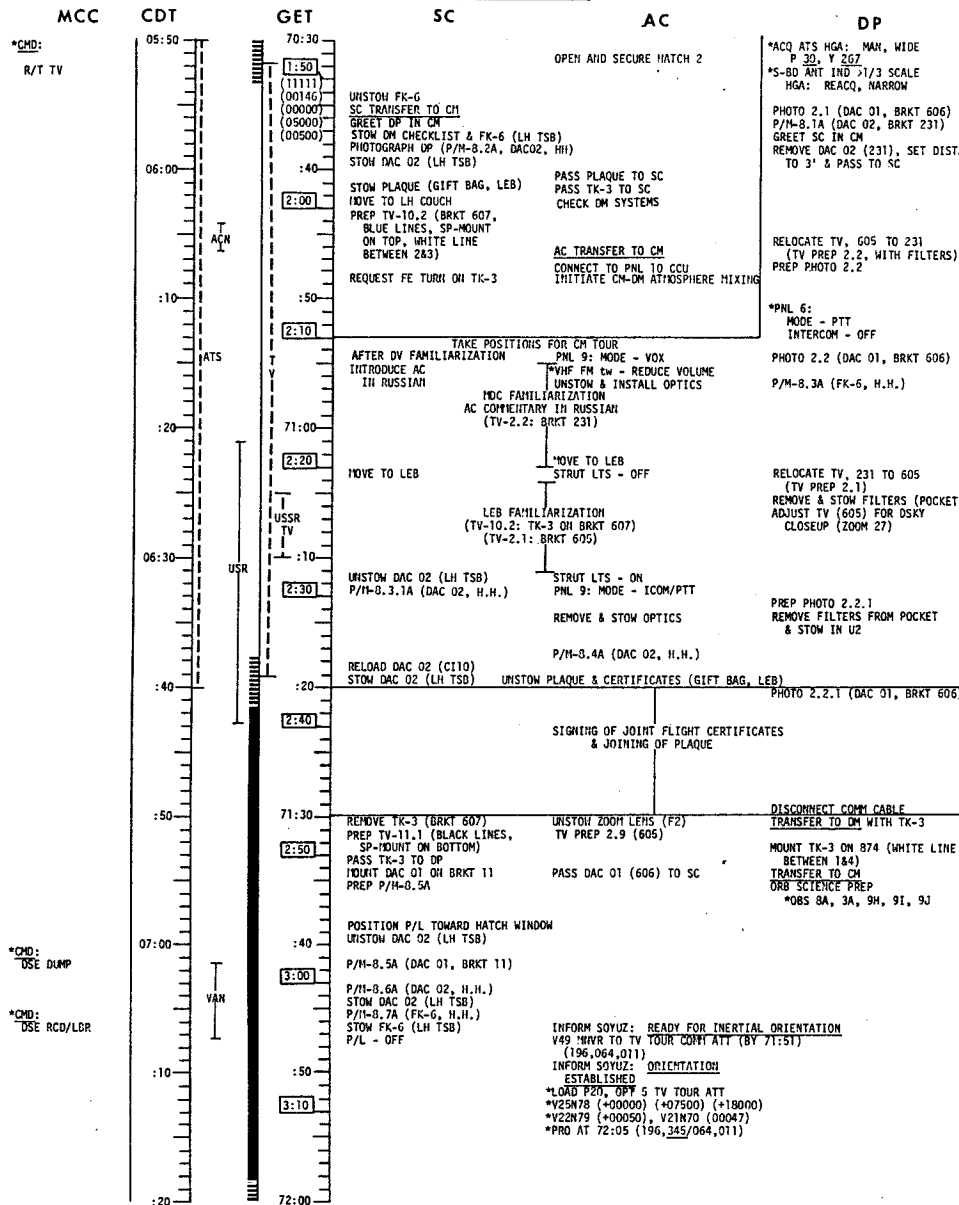
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 18, 1975	41

MOSCOW DATE	ORB
JULY 18, 1975	40-49

WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE ELEVEN



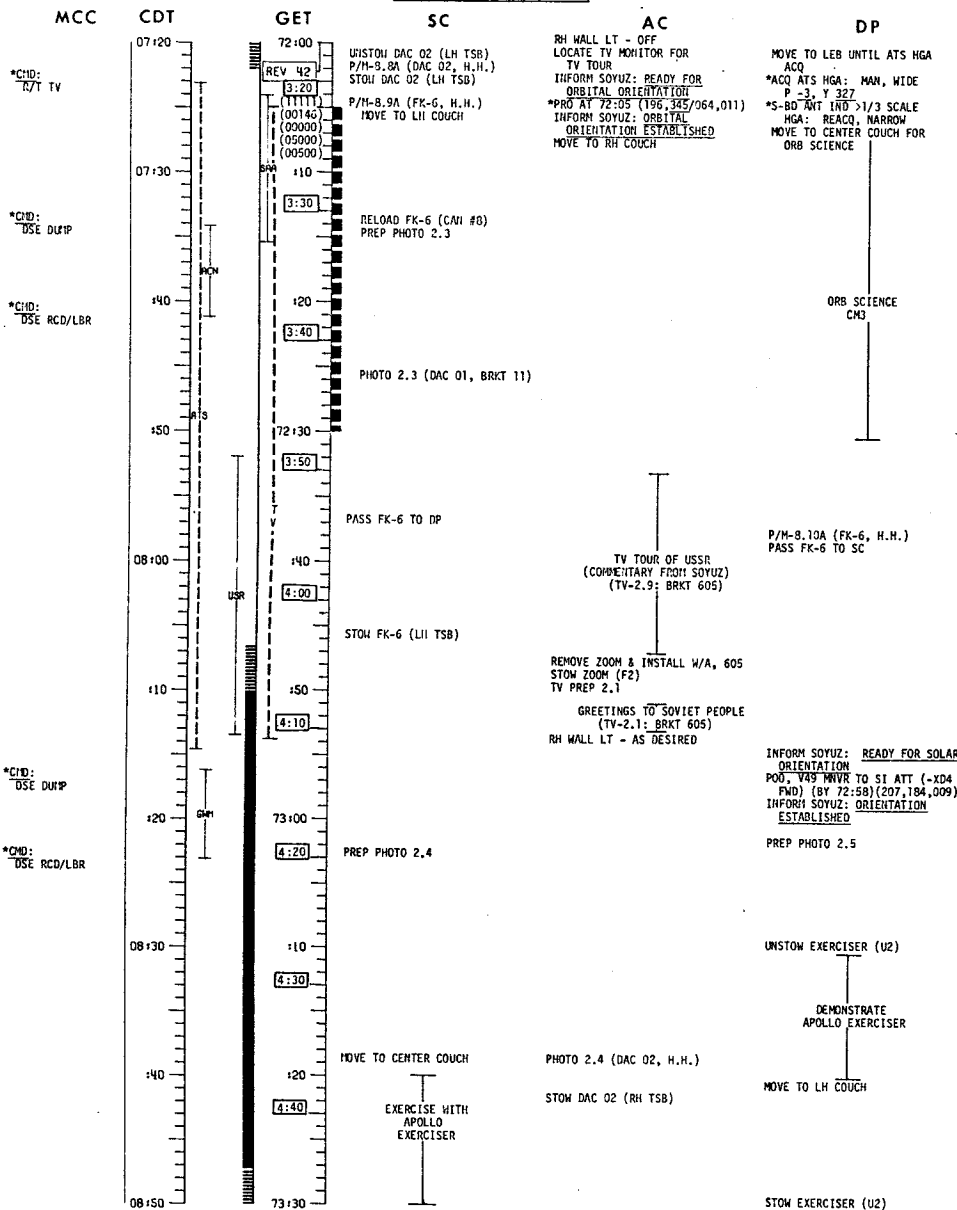
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

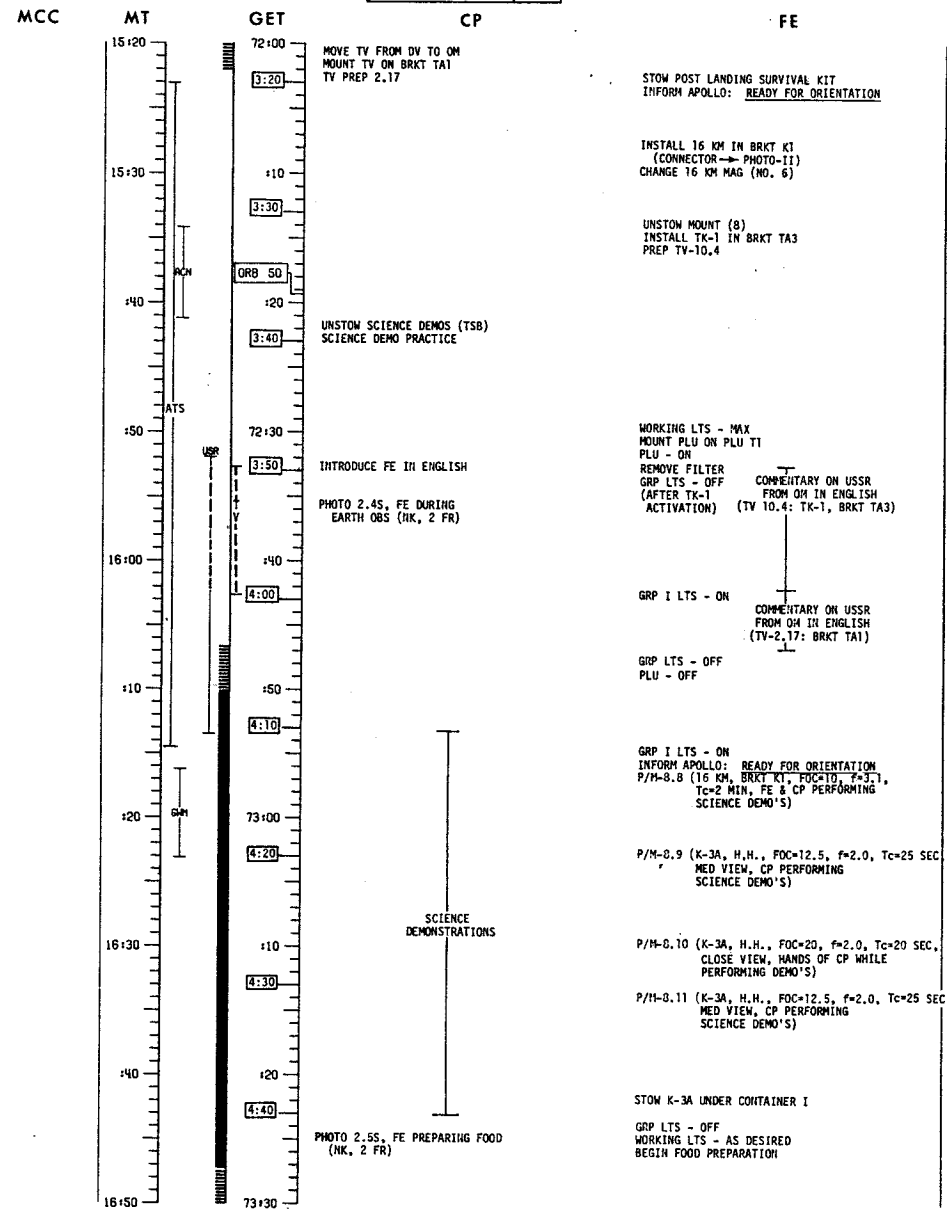
HOUSTON DATE	REV
JULY 18, 1975	42

MOSCOW DATE	ORB
JULY 18, 1975	49-50

MSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE TWELVE



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION G	APRIL 28, 1975	4.2-24



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION G	APRIL 28, 1975	4.2-25

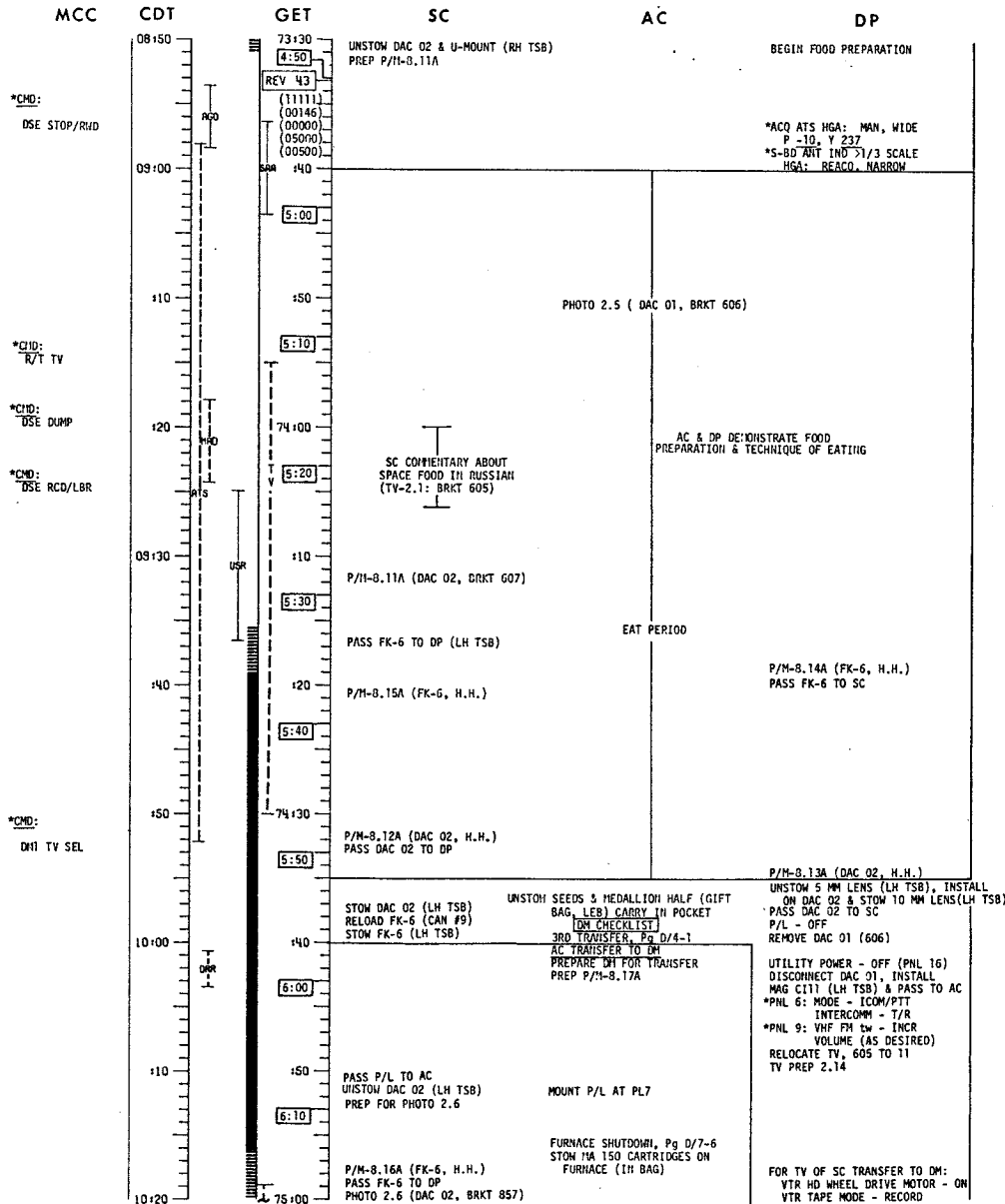
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

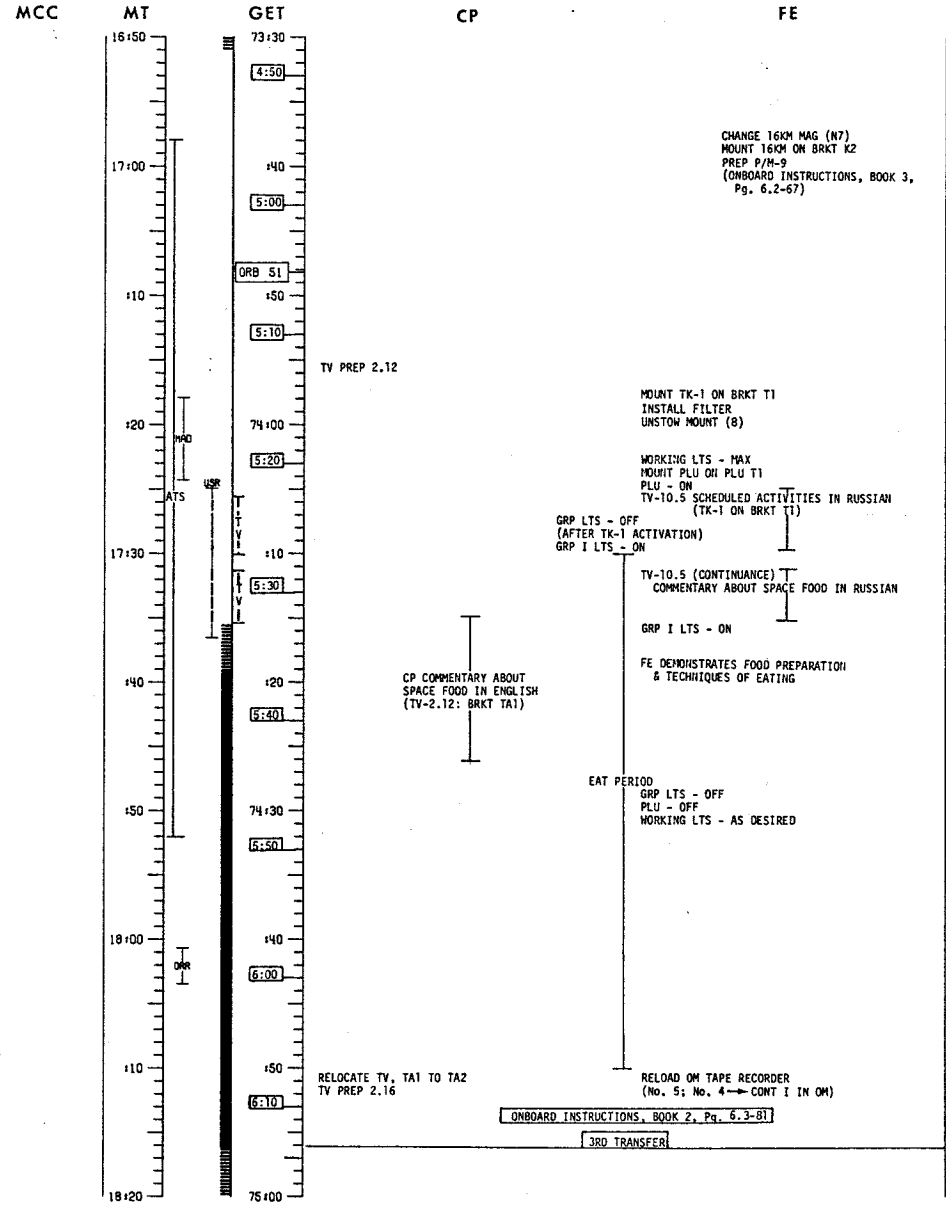
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE THIRTEEN

HOUSTON DATE	REV
JULY 10, 1975	42-43

MOSCOW DATE	ORB
JULY 18, 1975	50-51



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION G	APRIL 28, 1975	4.2-26



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION G	APRIL 28, 1975	4.2-27

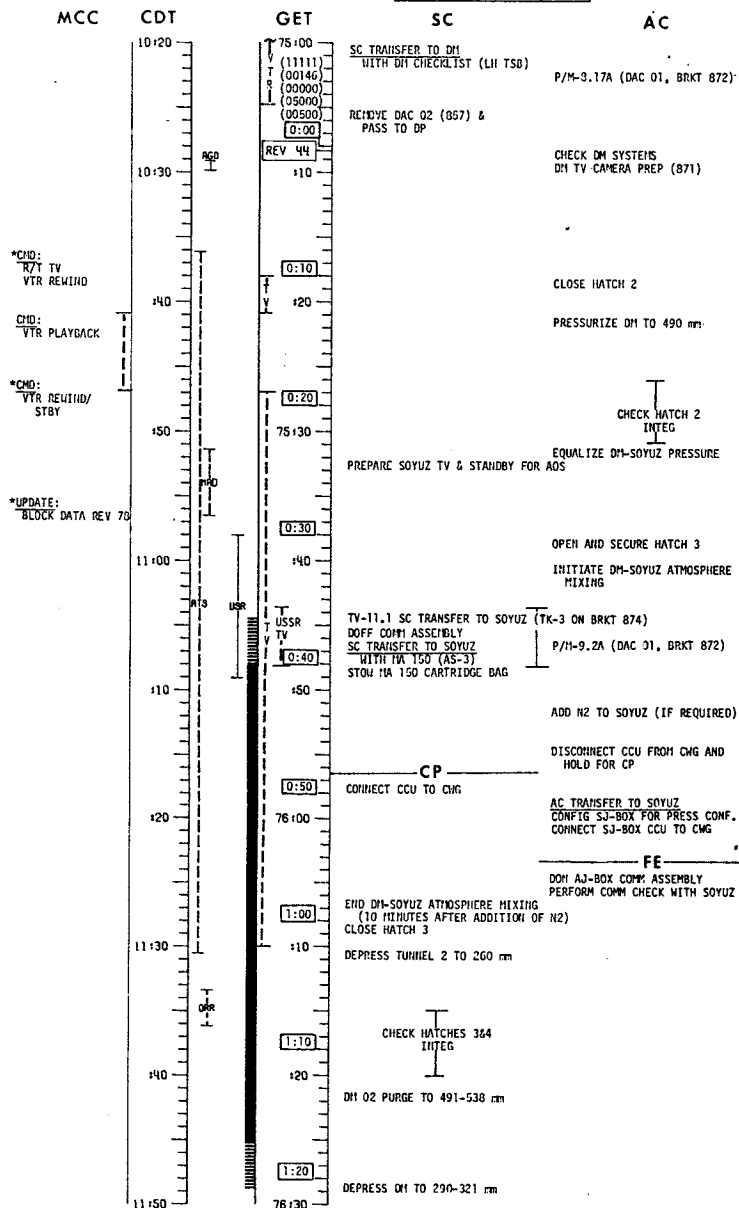
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

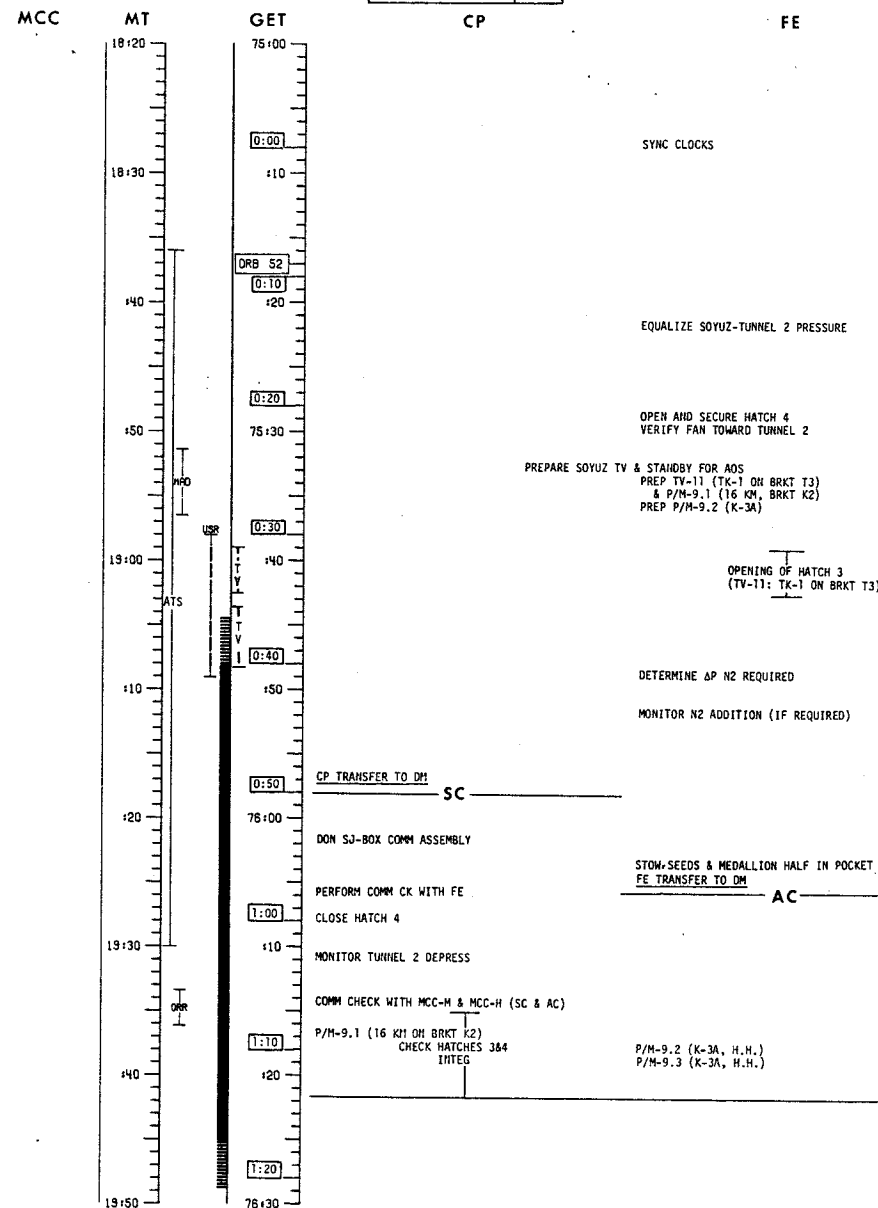
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE FOURTEEN

HOUSTON DATE	REV
JULY 18, 1975	43-44

MOSCOW DATE	ORB
JULY 18, 1975	51-52



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-28

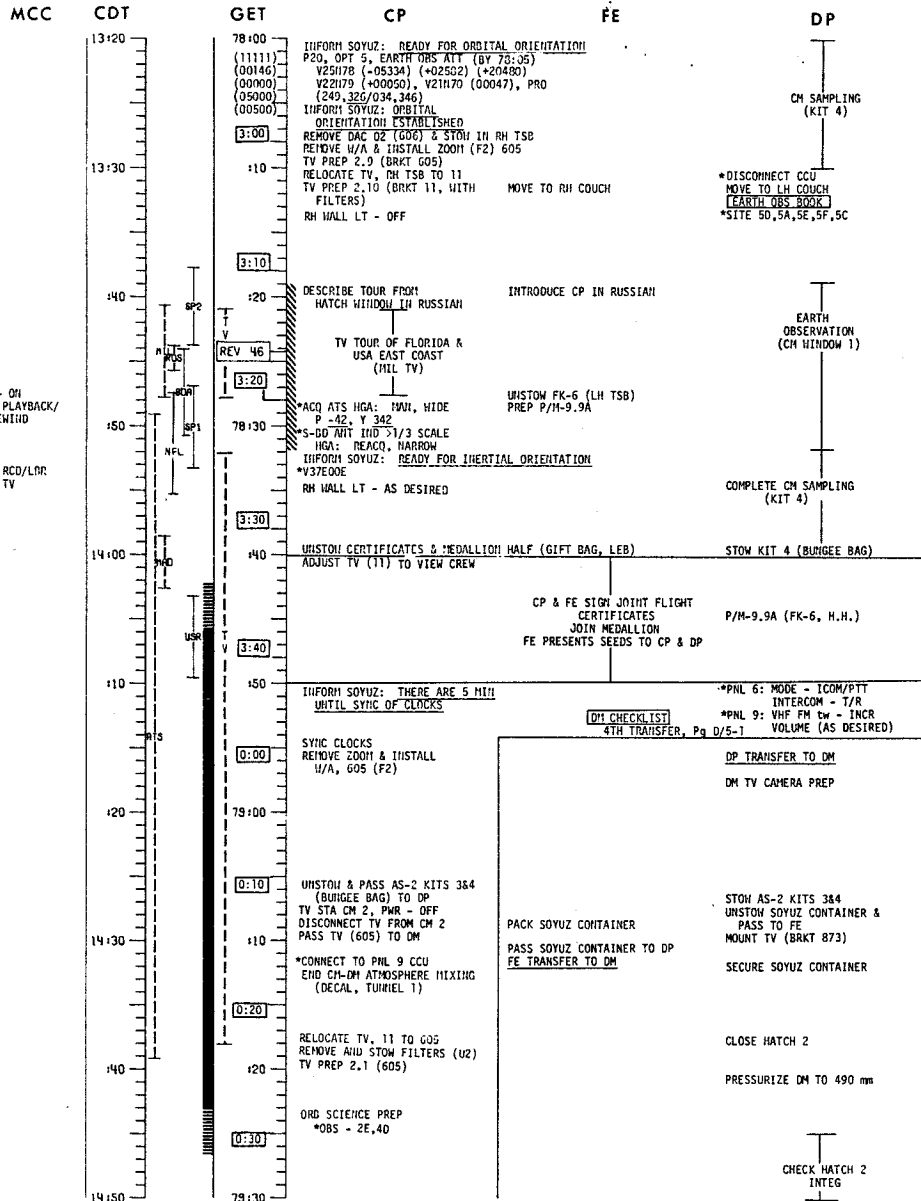


MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-29



# APOLLO DETAILED CREW ACTIVITIES PLAN

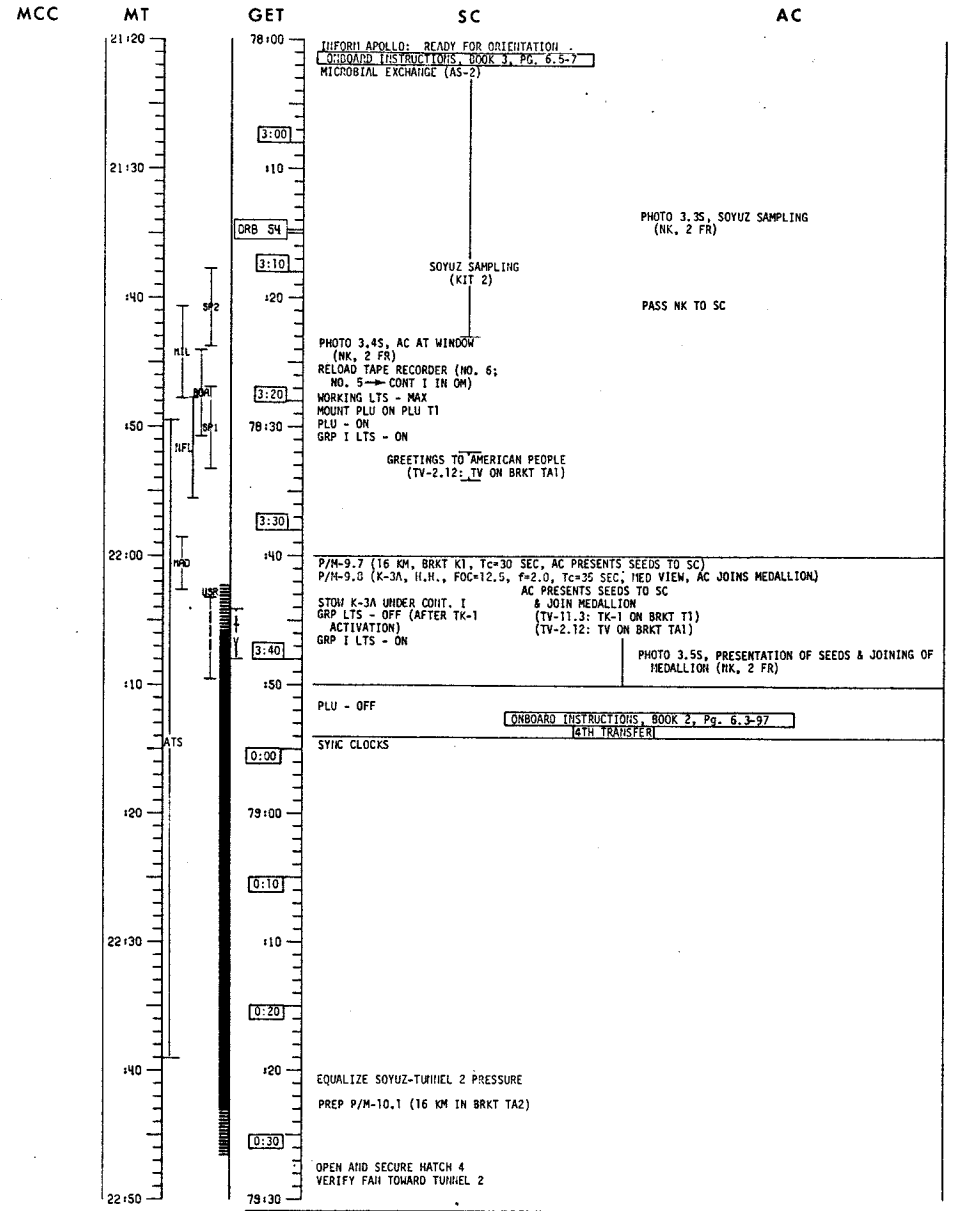
HOUSTON DATE	REV
JULY 18, 1975	45-46



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION	APRIL 28, 1975	4.2-32

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 18, 1975	53-54



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-33



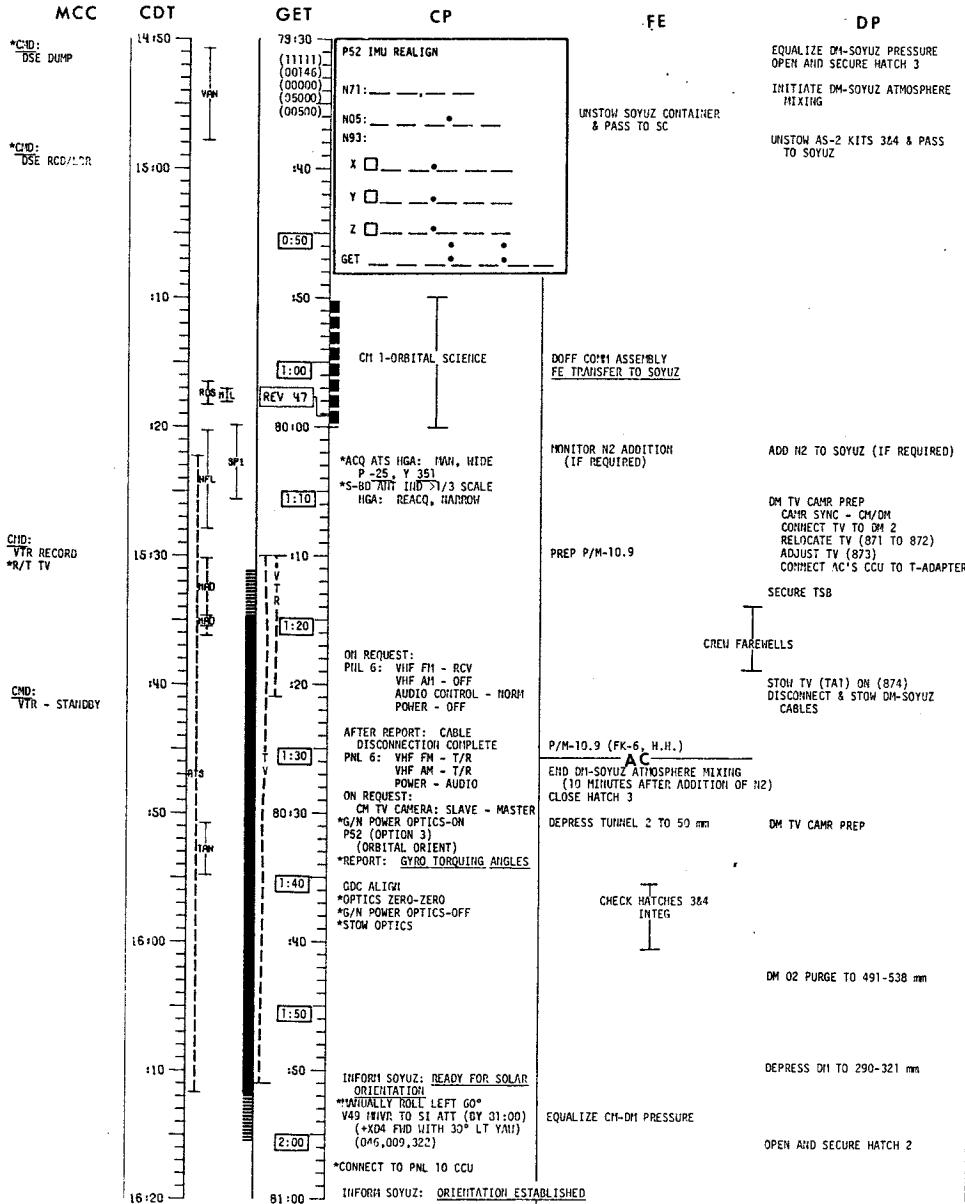
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

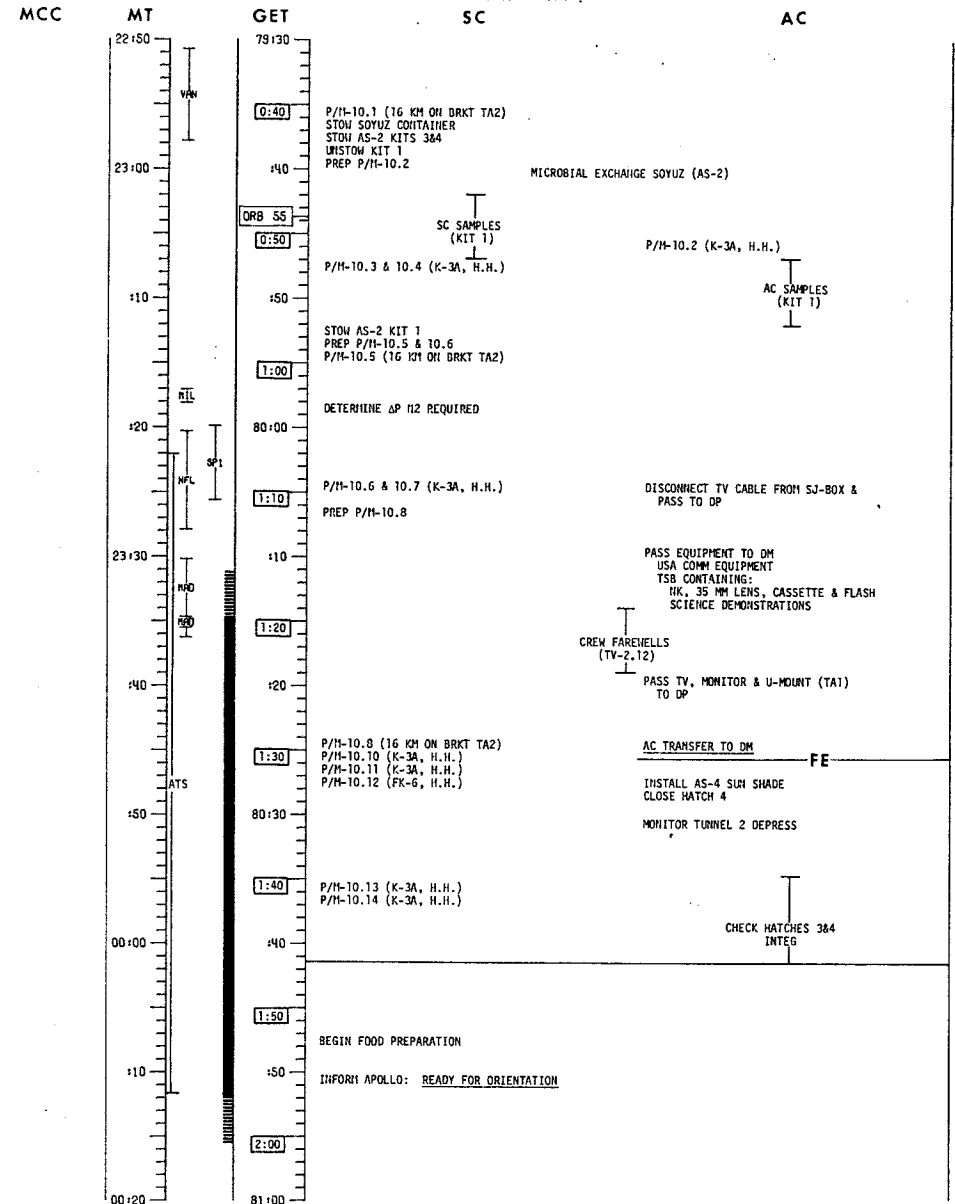
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE SEVENTEEN

HOUSTON DATE	REV
JULY 18, 1975	46-47

MOSCOW DATE	ORB
JULY 18, 1975	54-55



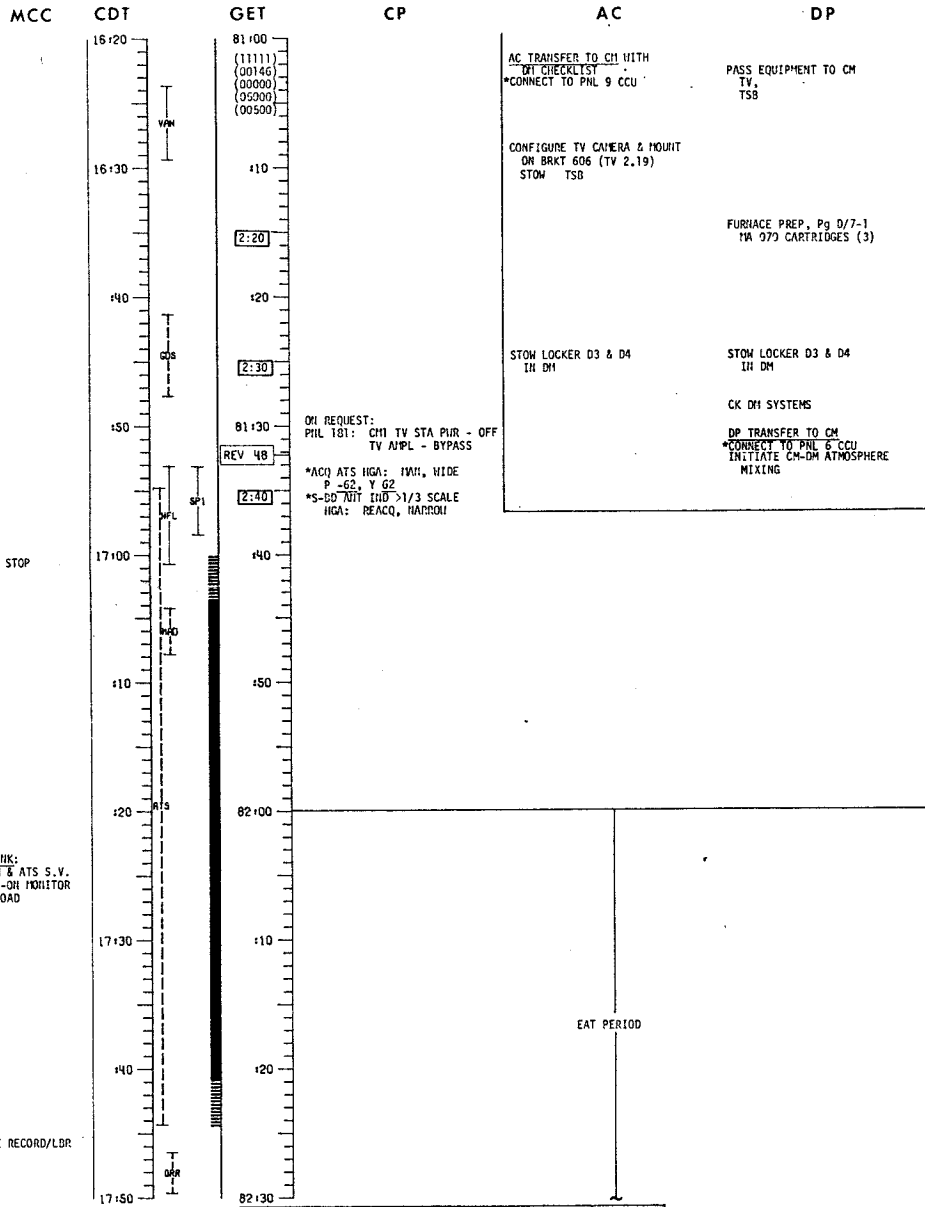
MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION G	APRIL 28, 1975	4.2-34



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION G	APRIL 28, 1975	4.2-35

# APOLLO DETAILED CREW ACTIVITIES PLAN

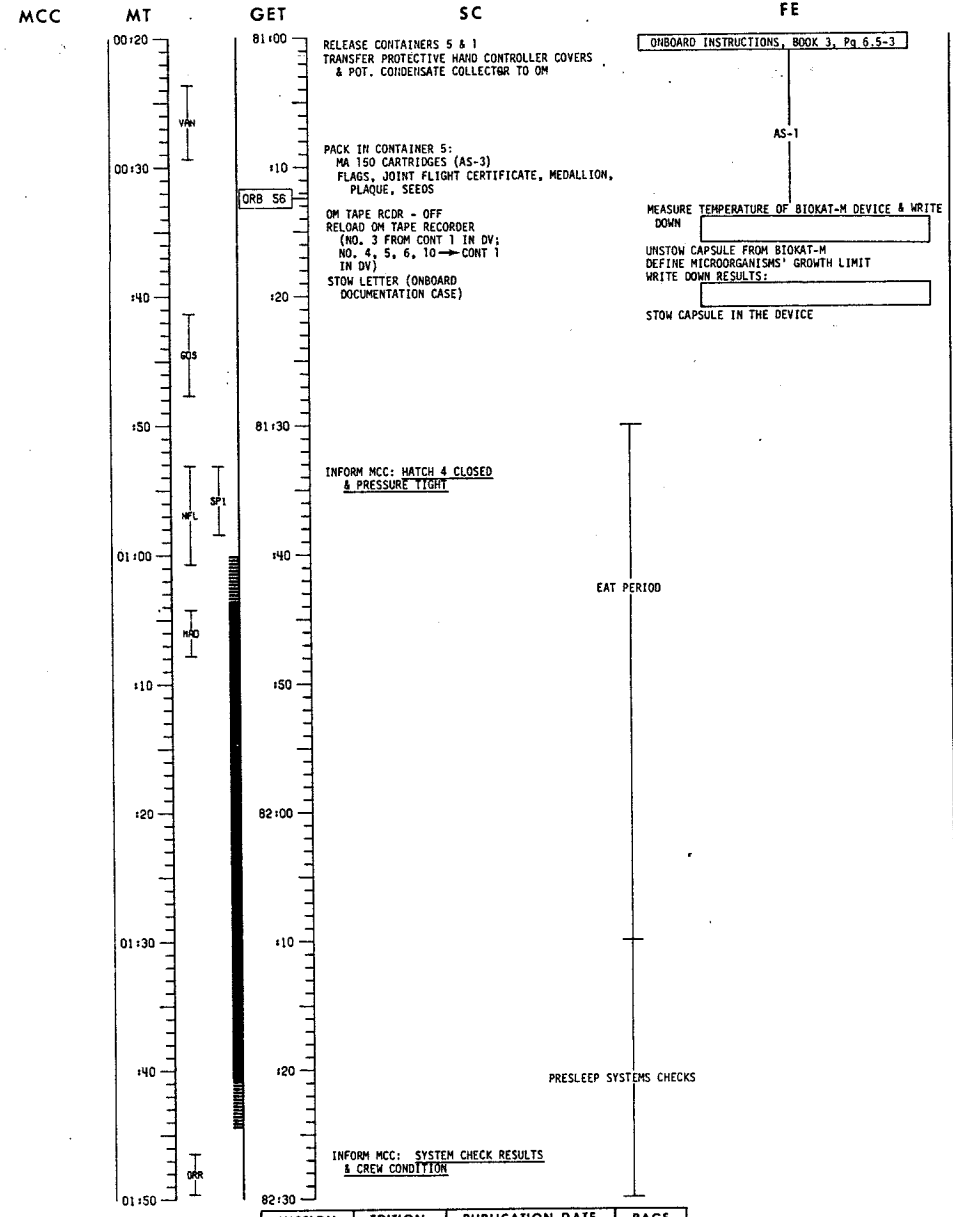
HOUSTON DATE	REV
JULY 18, 1975	47-48



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-36

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 19, 1975	55-56



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-37

\*CND: DSE STOP

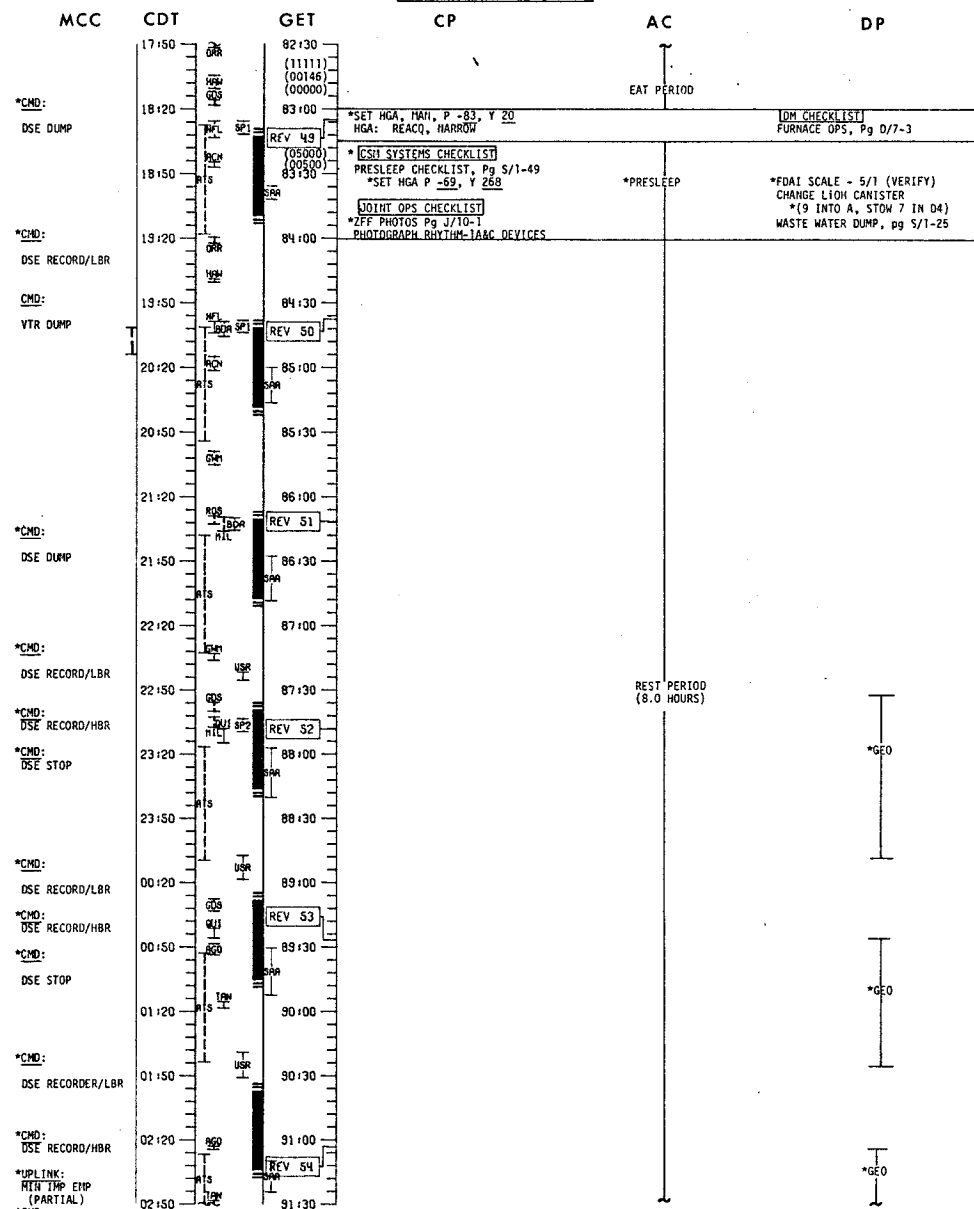
\*UPLINK: CSN & ATS S.V. JET-DM MONITOR LOAD

\*CND: DSE RECORD/LDR

# APOLLO DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 18, 1975	48-54

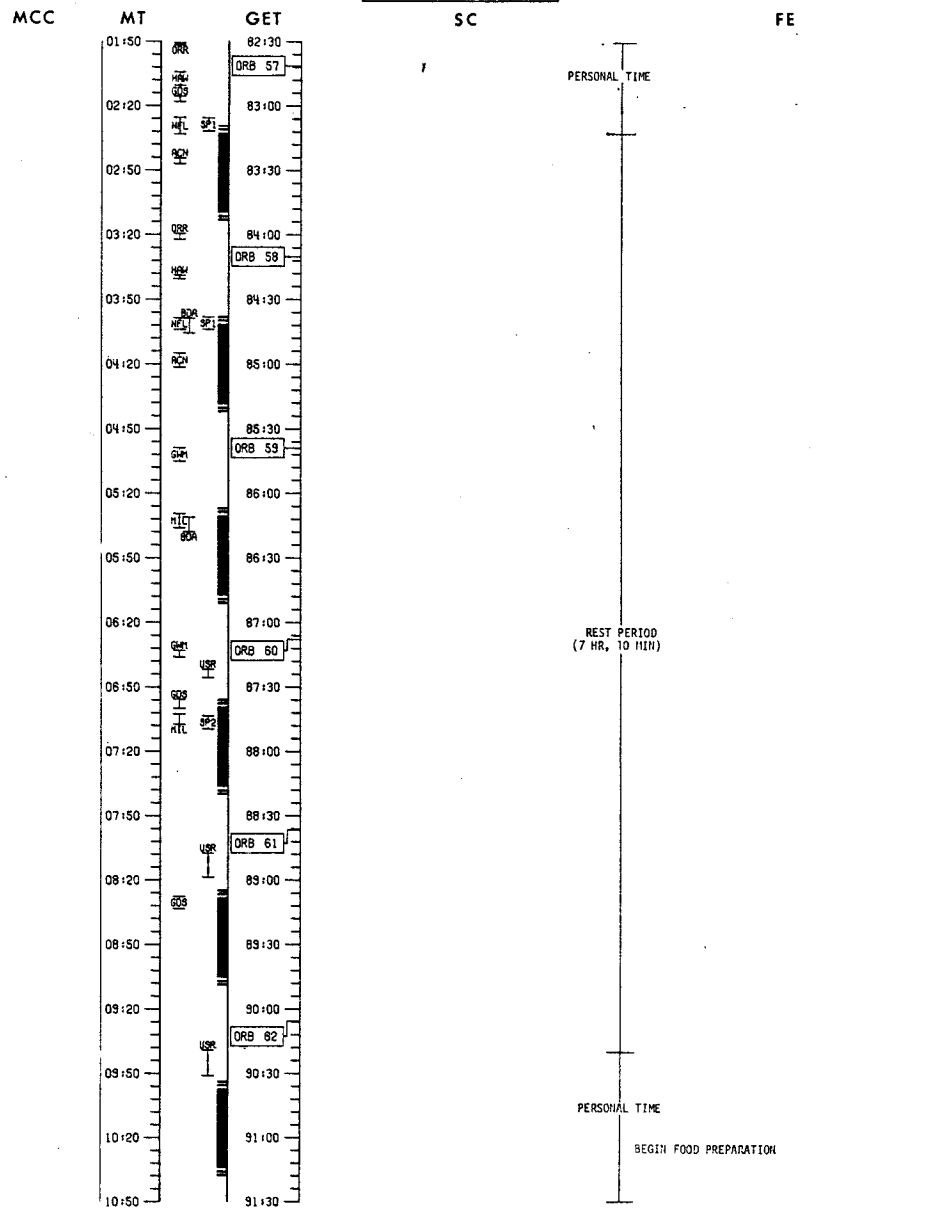
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE NINETEEN



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-38

# SOYUZ DETAILED CREW ACTIVITIES PLAN

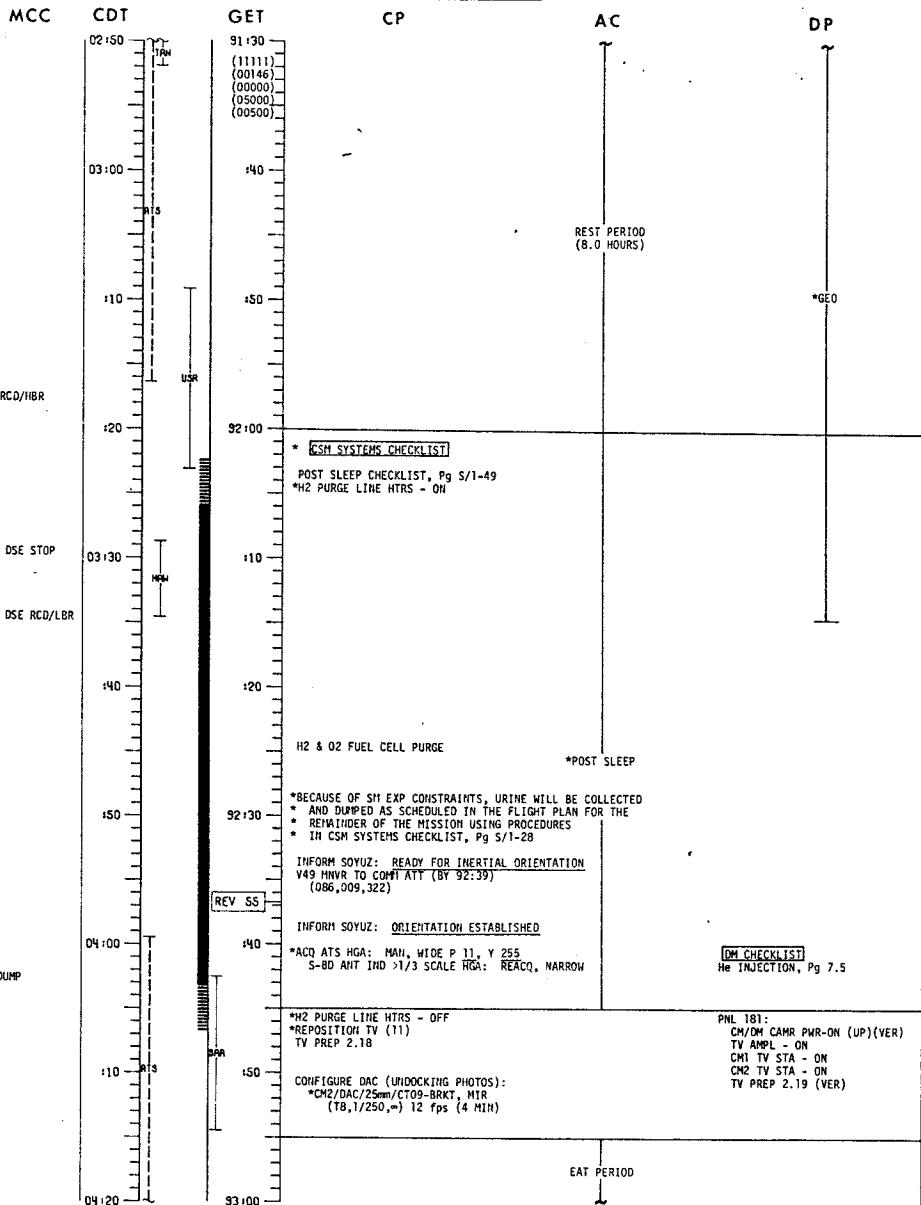
MOSCOW DATE	ORB
JULY 19, 1975	56-62



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-39

# APOLLO DETAILED CREW ACTIVITIES PLAN

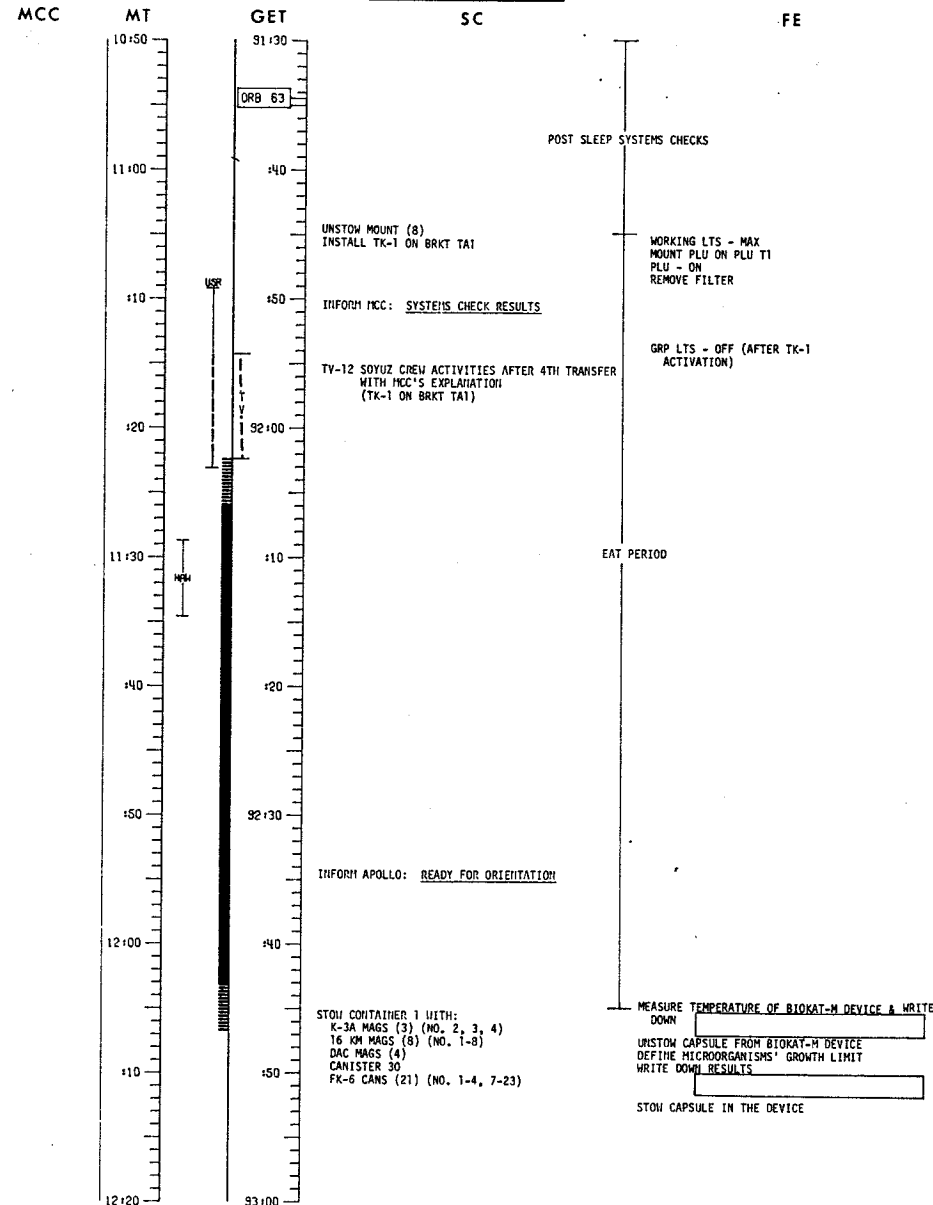
HOUSTON DATE	REV
JULY 19, 1975	54-55



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-40

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 19, 1975	62-63

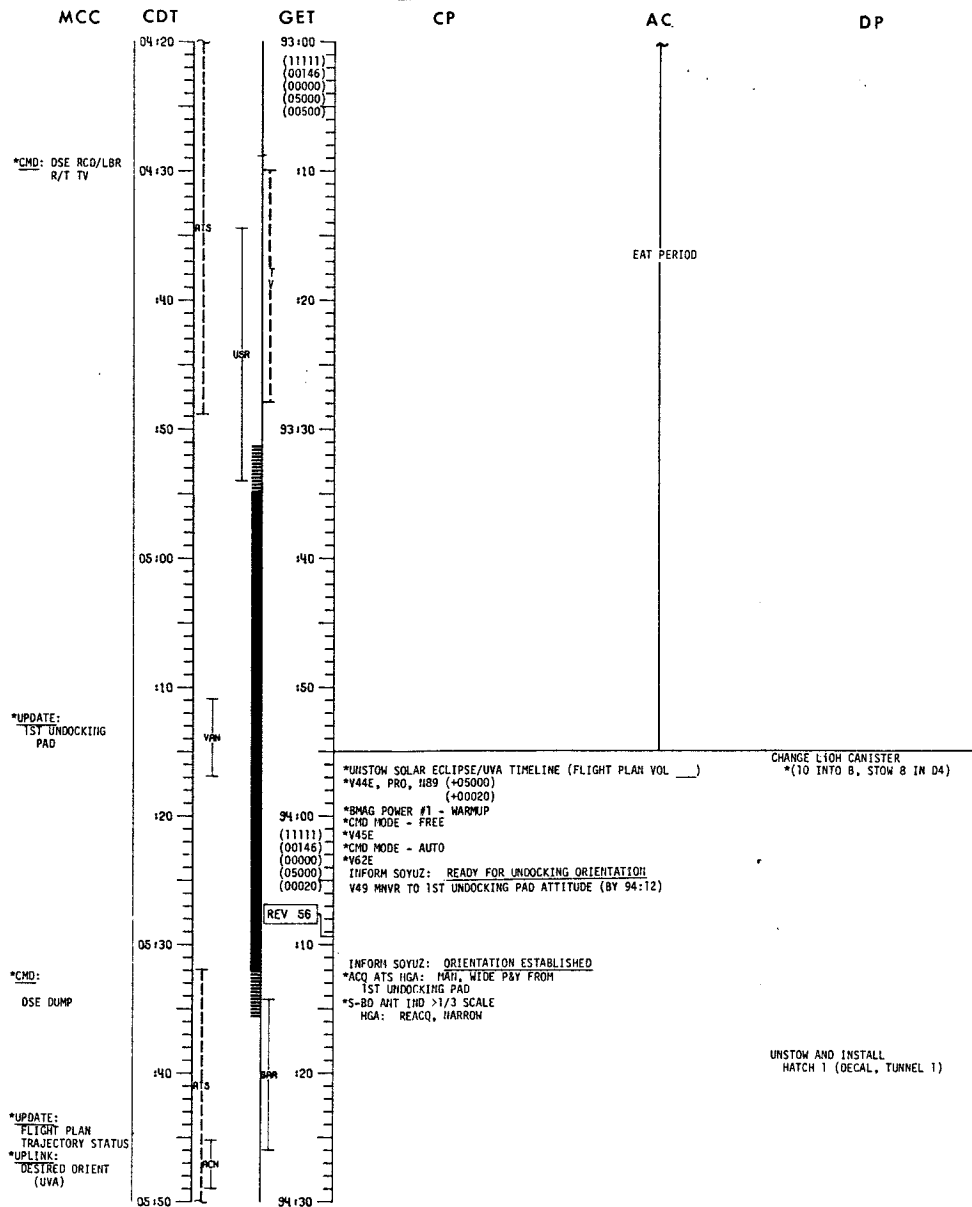


MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-41

# APOLLO DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 19, 1975	55-56

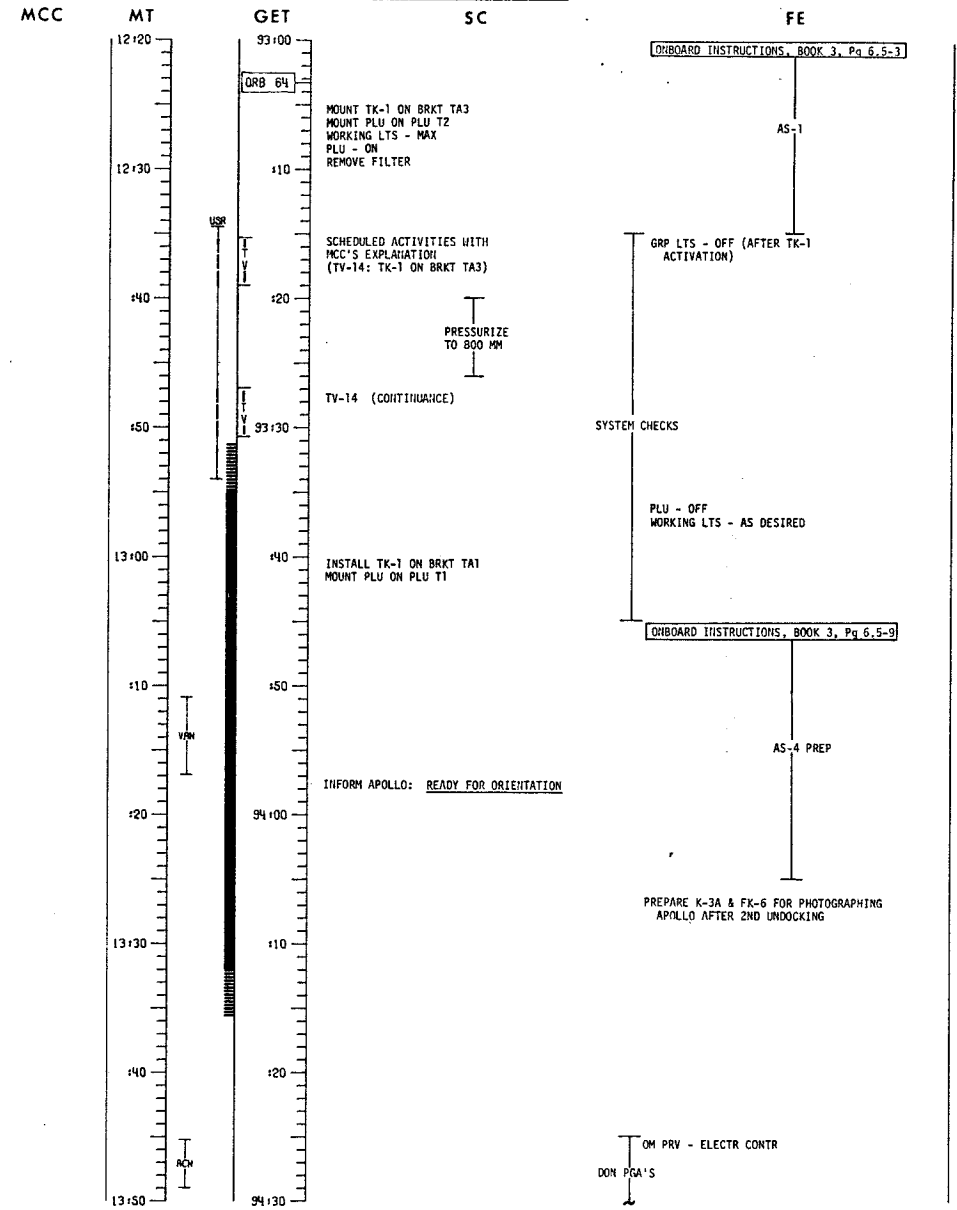
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE TWENTY-ONE



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-42

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 19, 1975	63-64

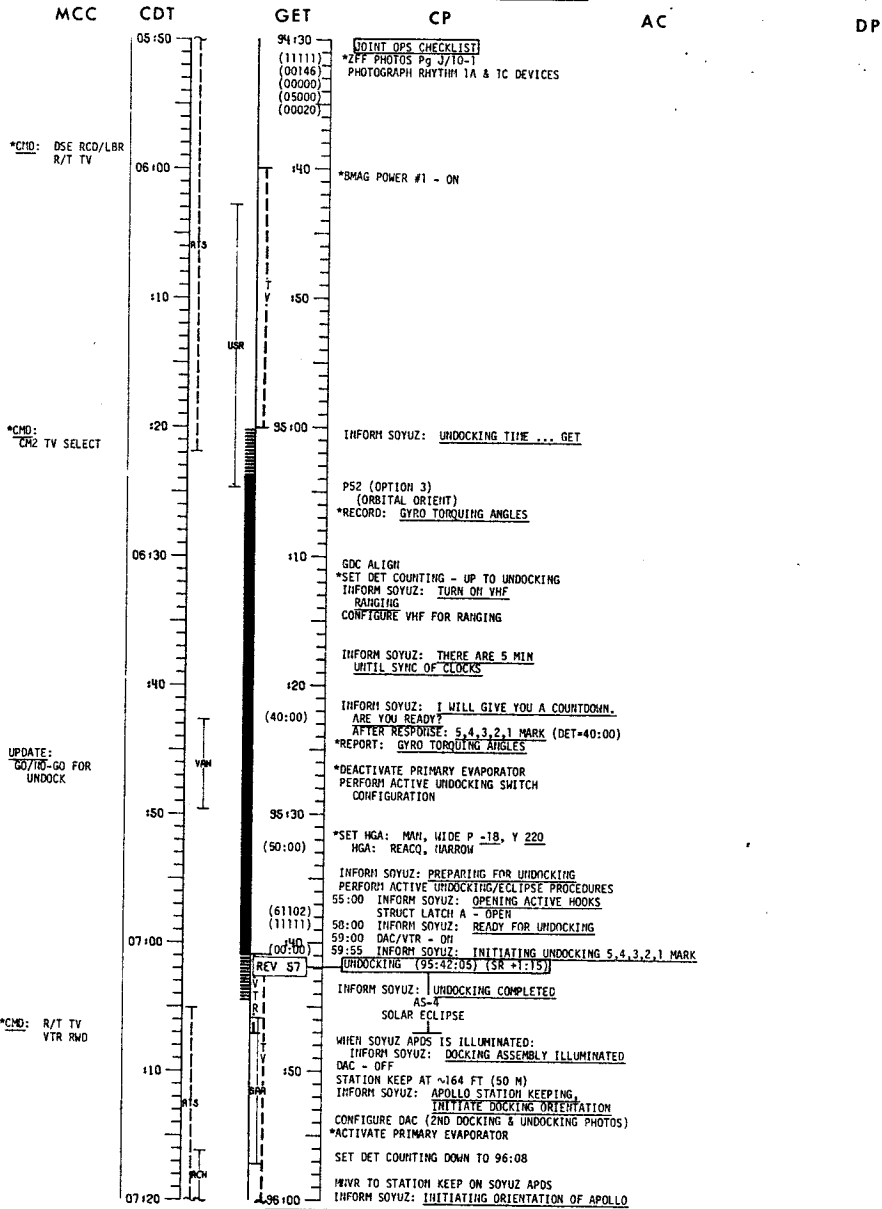


MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-43

# APOLLO DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 19, 1975	56-57

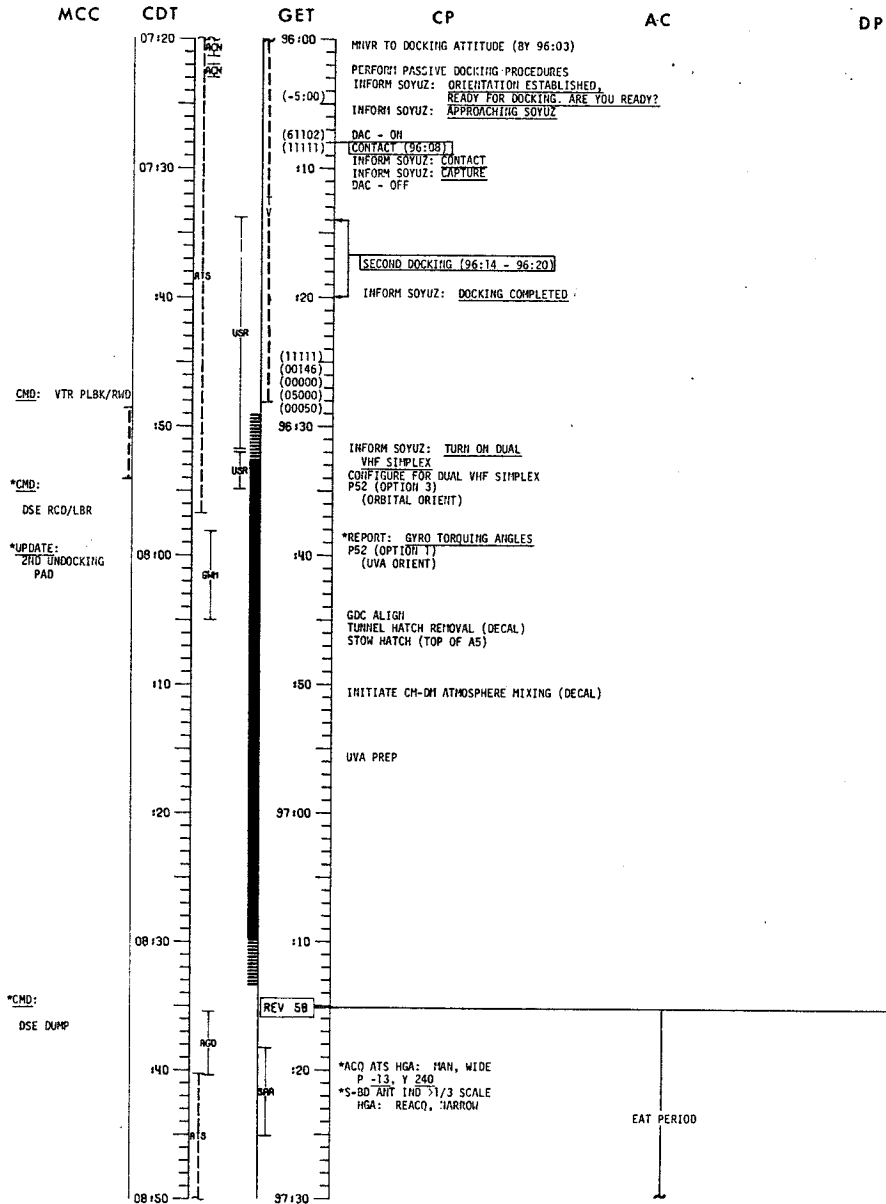
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE TWENTY-TWO



# APOLLO DETAILED CREW ACTIVITIES PLAN

WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE TWENTY-THREE

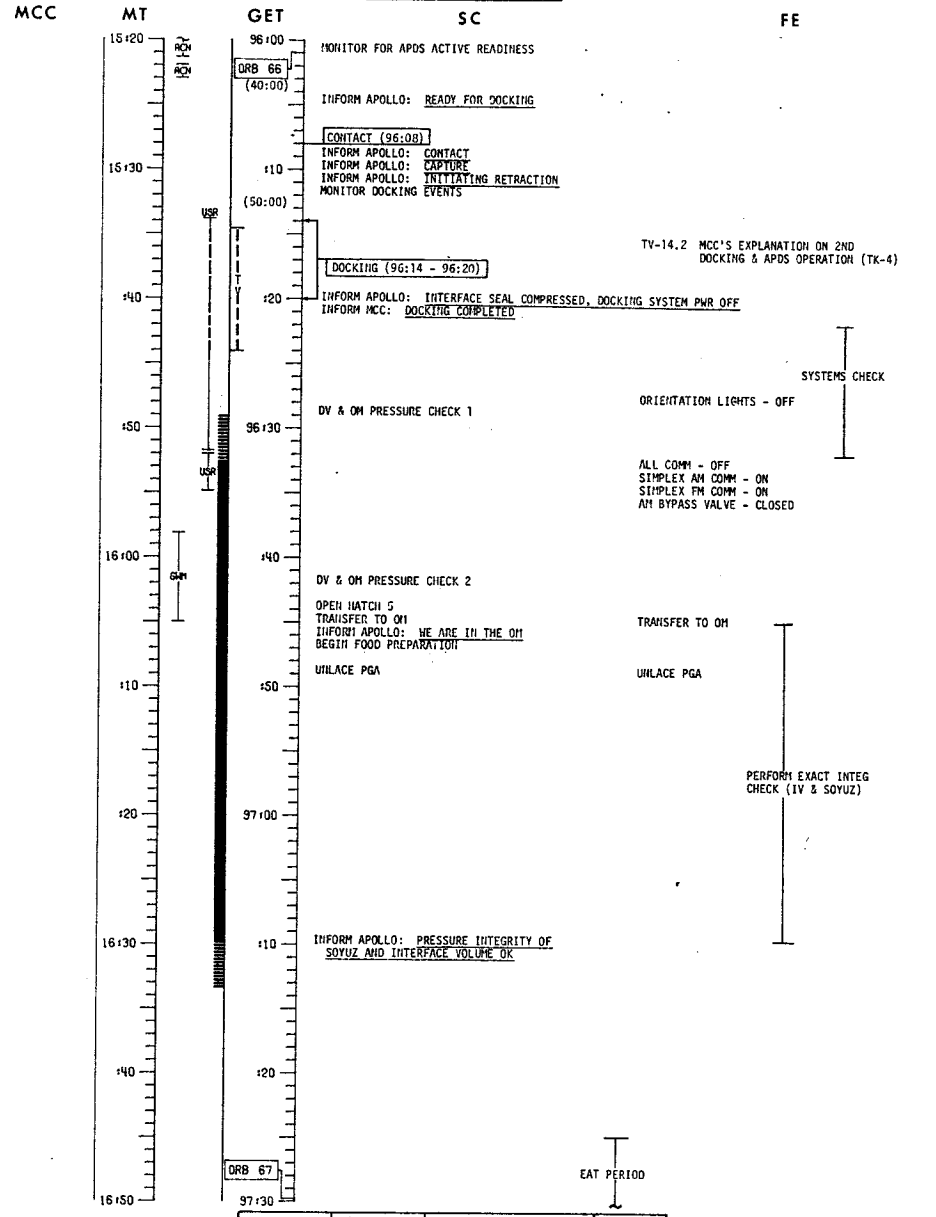
HOUSTON DATE	REV
JULY 19, 1975	57-58



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-46

# SOYUZ DETAILED CREW ACTIVITIES PLAN

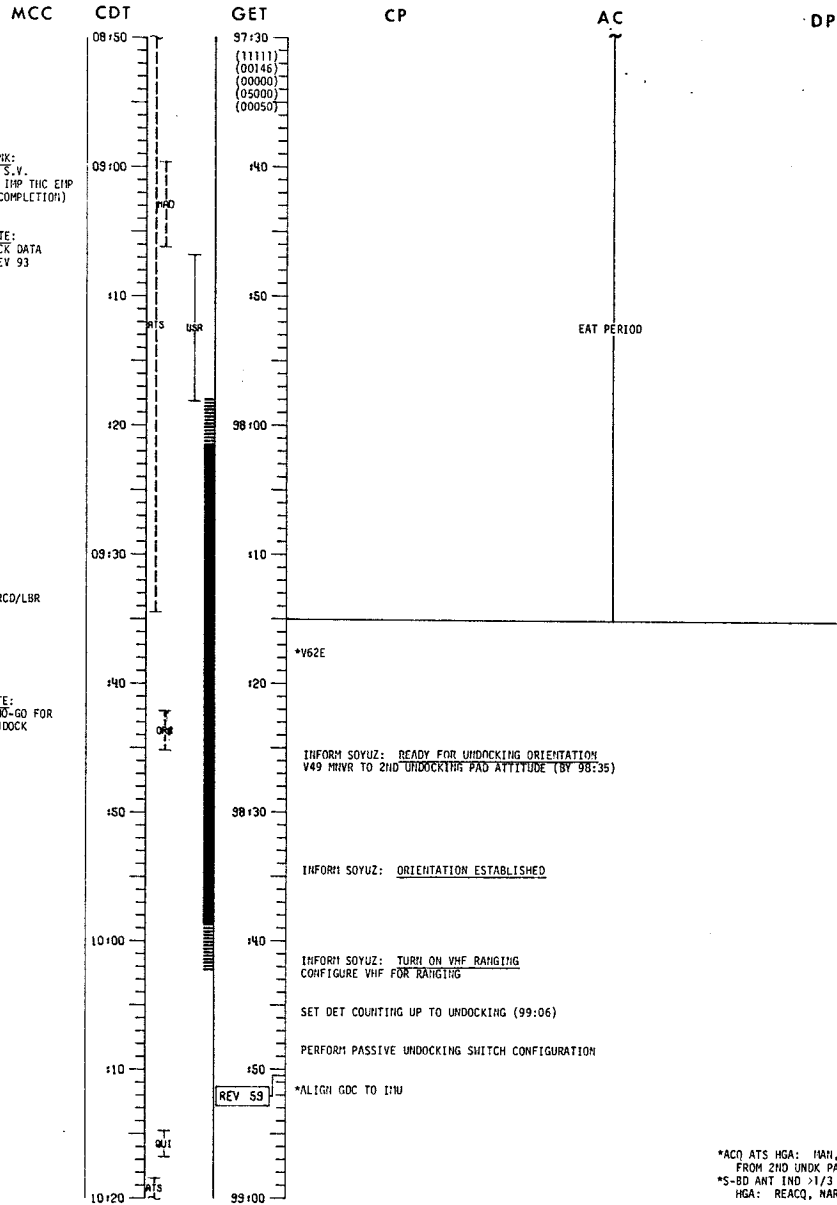
MOSCOW DATE	ORB
JULY 19, 1975	65-67



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-47

# APOLLO DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 19, 1975	58-59

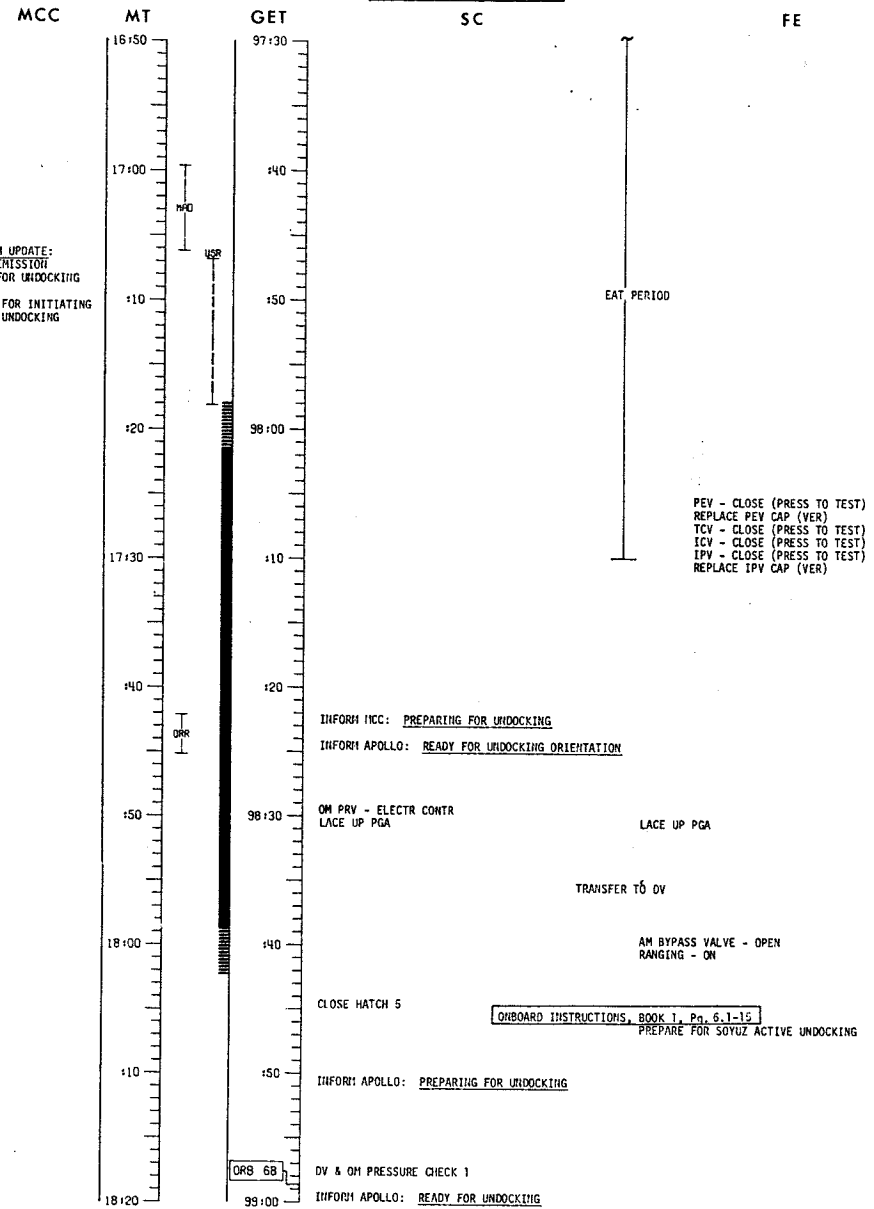


\*ACQ AT5 HGA: 14M, WIDE PLY  
FROM 2ND UNDK PAD  
\*S-BD ANT IND >1/3 SCALE  
HGA: REACQ, NARROW

MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-48

# SOYUZ DETAILED CREW ACTIVITIES PLAN

MOSCOW DATE	ORB
JULY 19, 1975	67-68



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-49



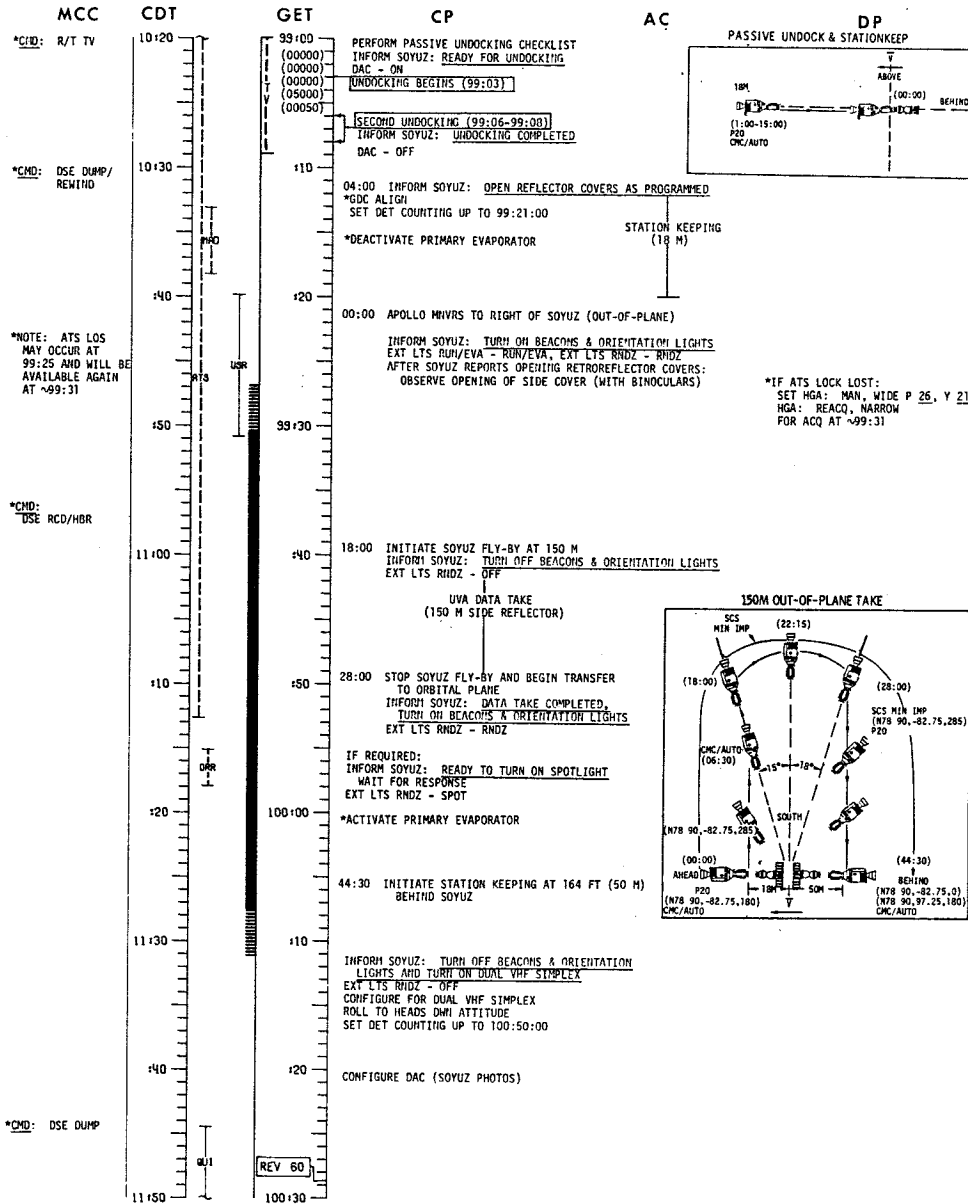
# APOLLO DETAILED CREW ACTIVITIES PLAN

# SOYUZ DETAILED CREW ACTIVITIES PLAN

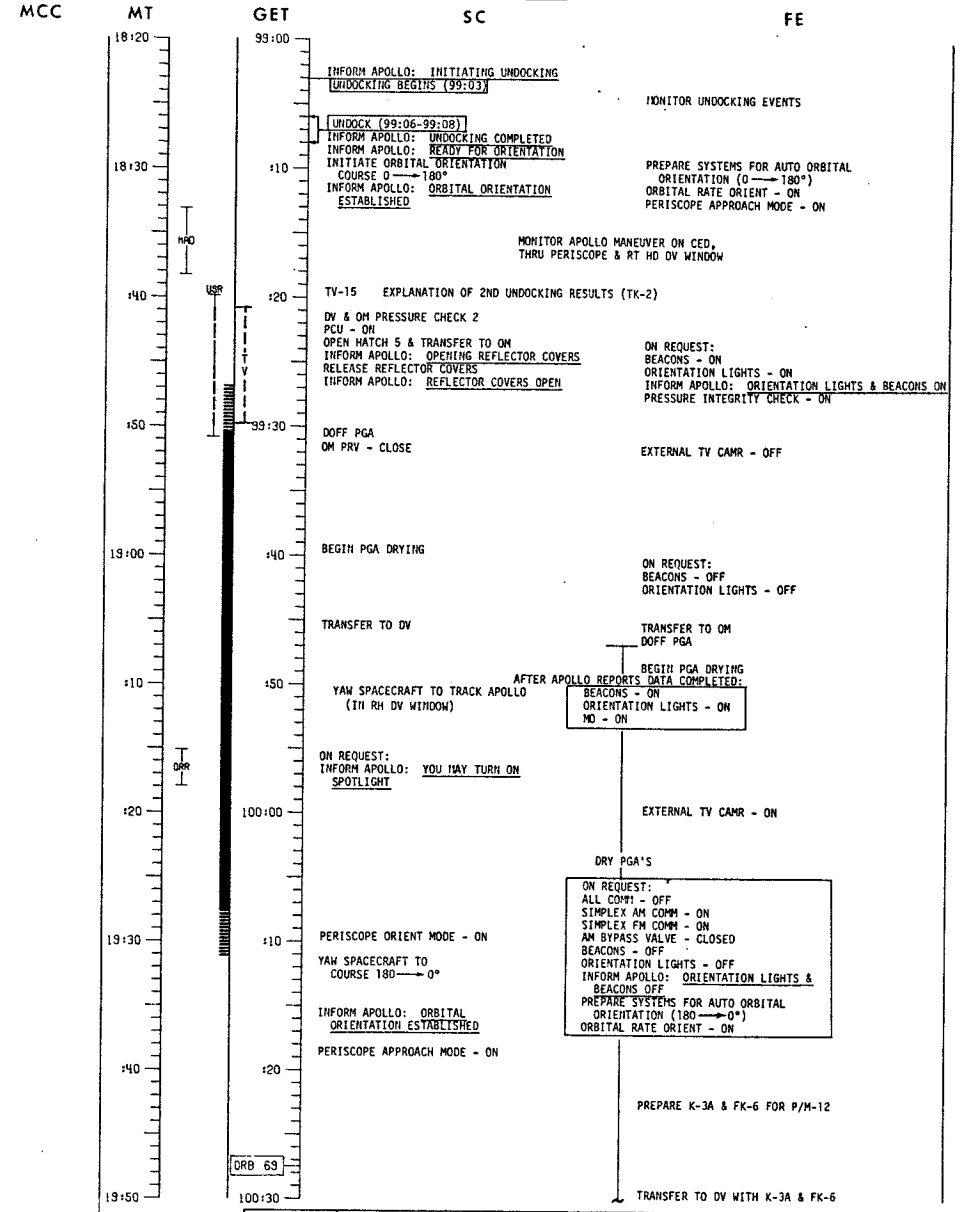
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE TWENTY-FIVE

HOUSTON DATE	REV
JULY 19, 1975	60

MOSCOW DATE	ORB
JULY 19, 1975	69-70



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-50

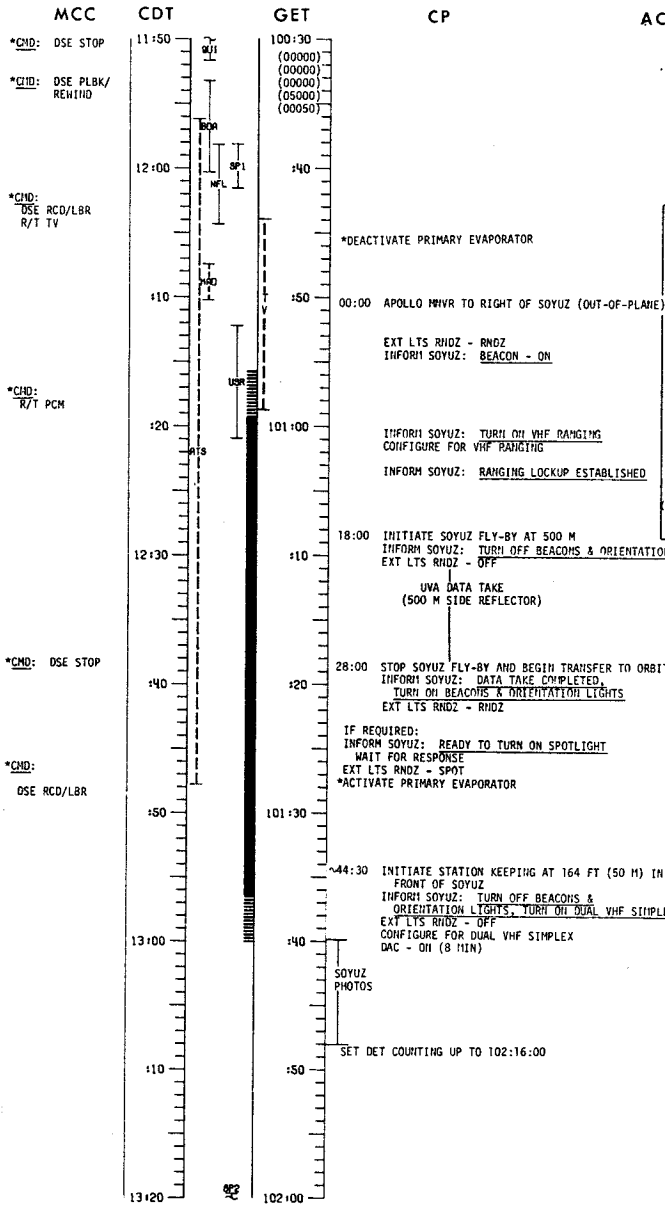


MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-51

# APOLLO DETAILED CREW ACTIVITIES PLAN

HOUSTON DATE	REV
JULY 19, 1975	60-61

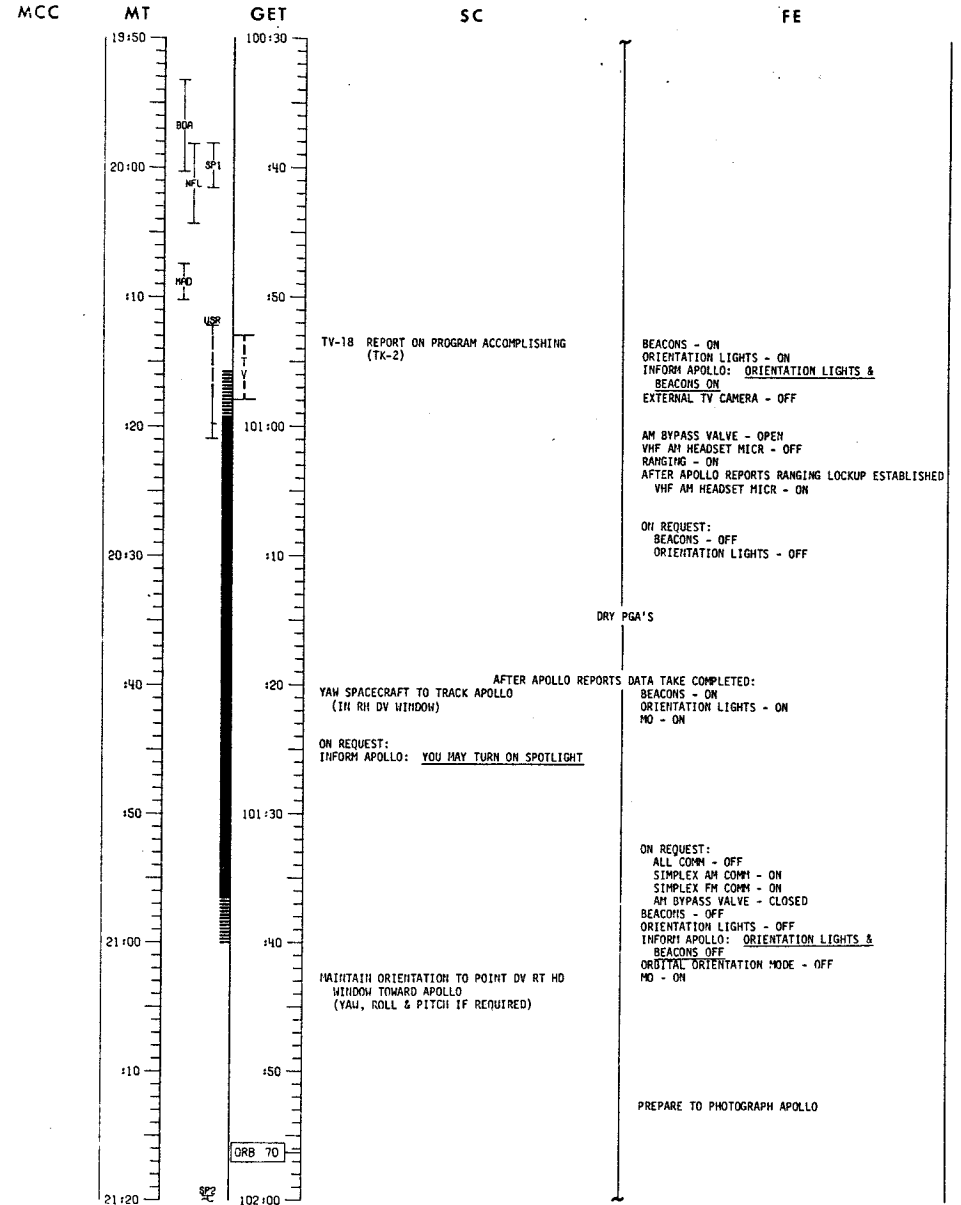
WSN SPACEFLIGHT HISTORY SPECIAL REPORT \* PAGE TWENTY-SIX



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-52

# SOYUZ DETAILED CREW ACTIVITIES PLAN

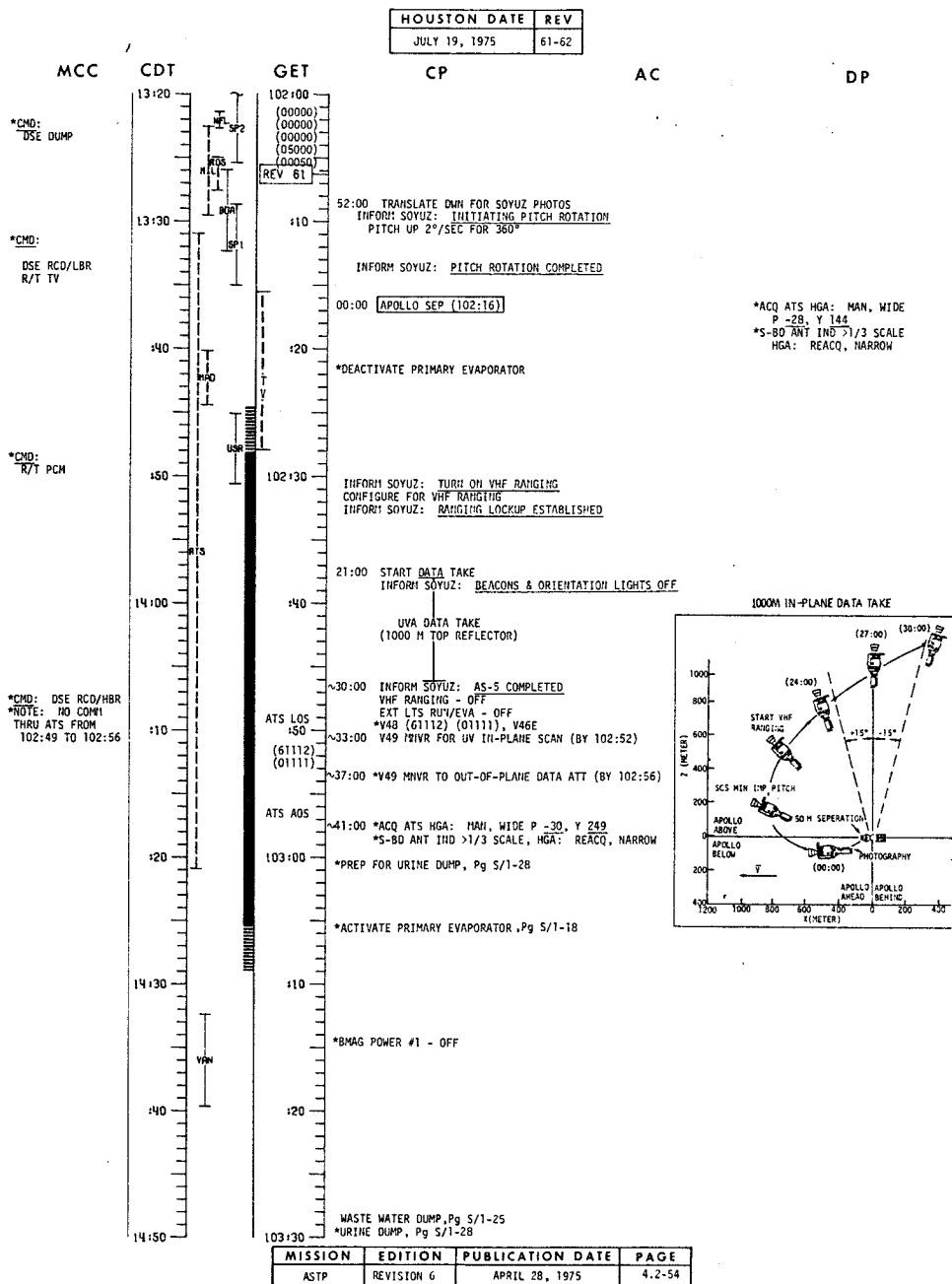
MOSCOW DATE	ORB
JULY 19, 1975	70-71



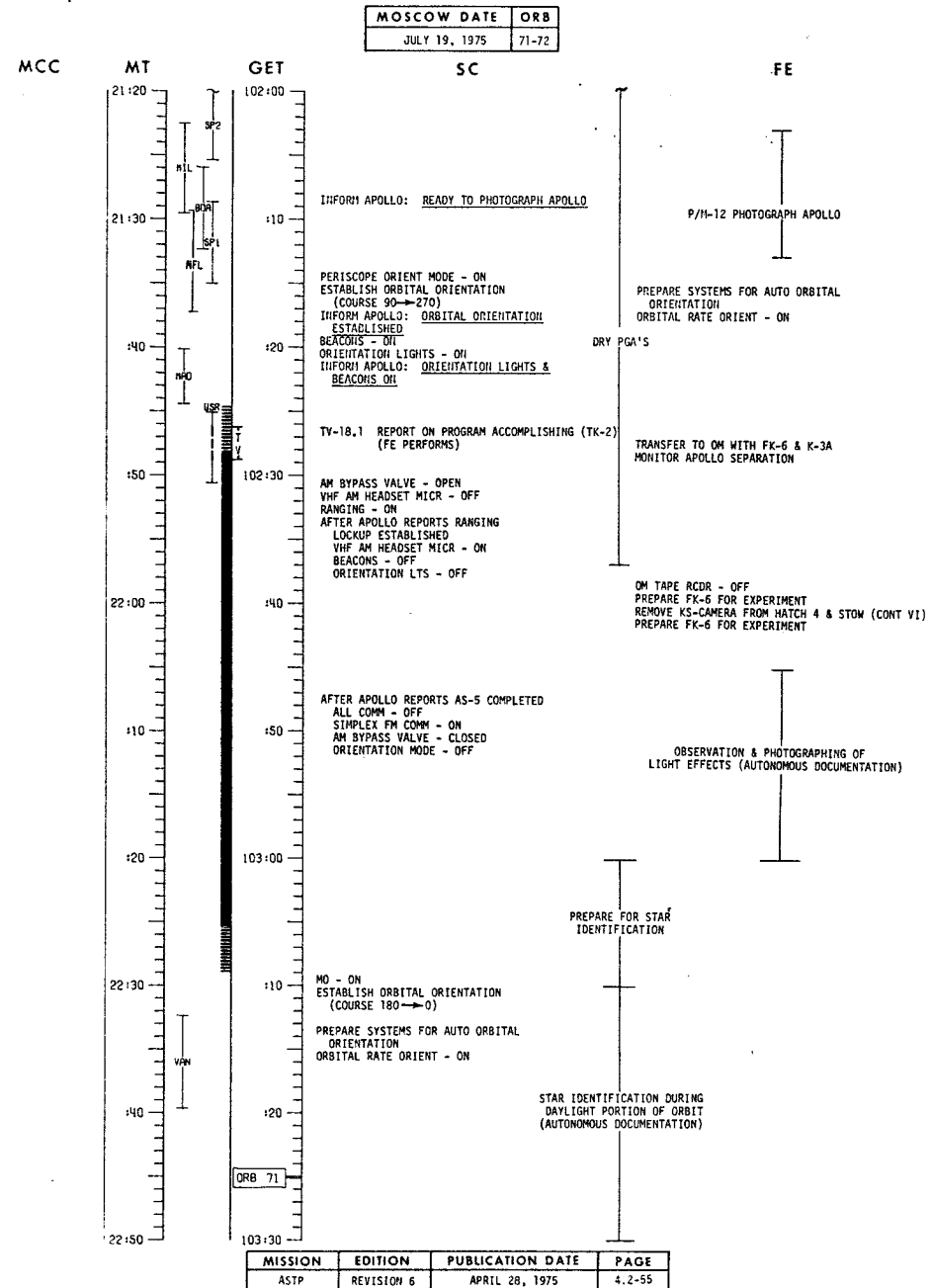
MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-53

# APOLLO DETAILED CREW ACTIVITIES PLAN

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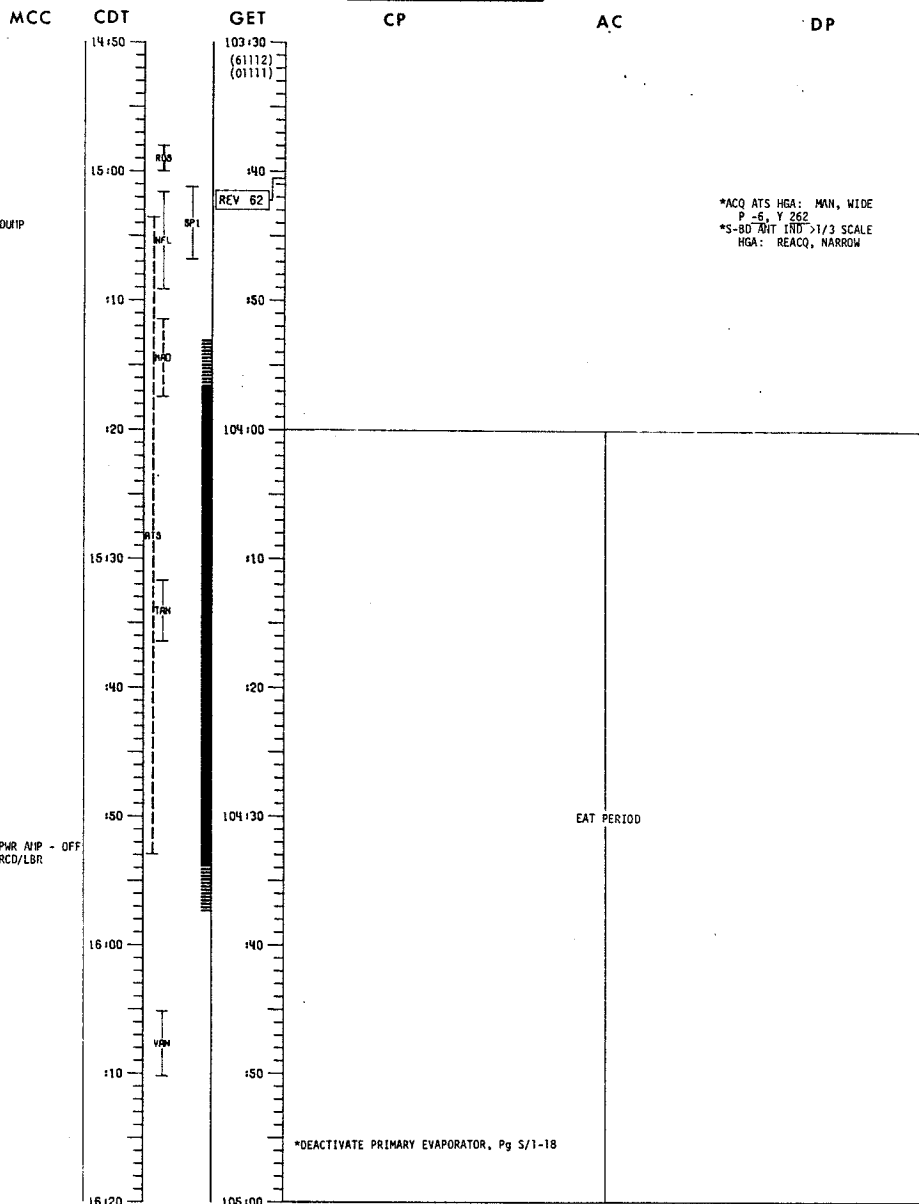


# SOYUZ DETAILED CREW ACTIVITIES PLAN



# APOLLO DETAILED CREW ACTIVITIES PLAN

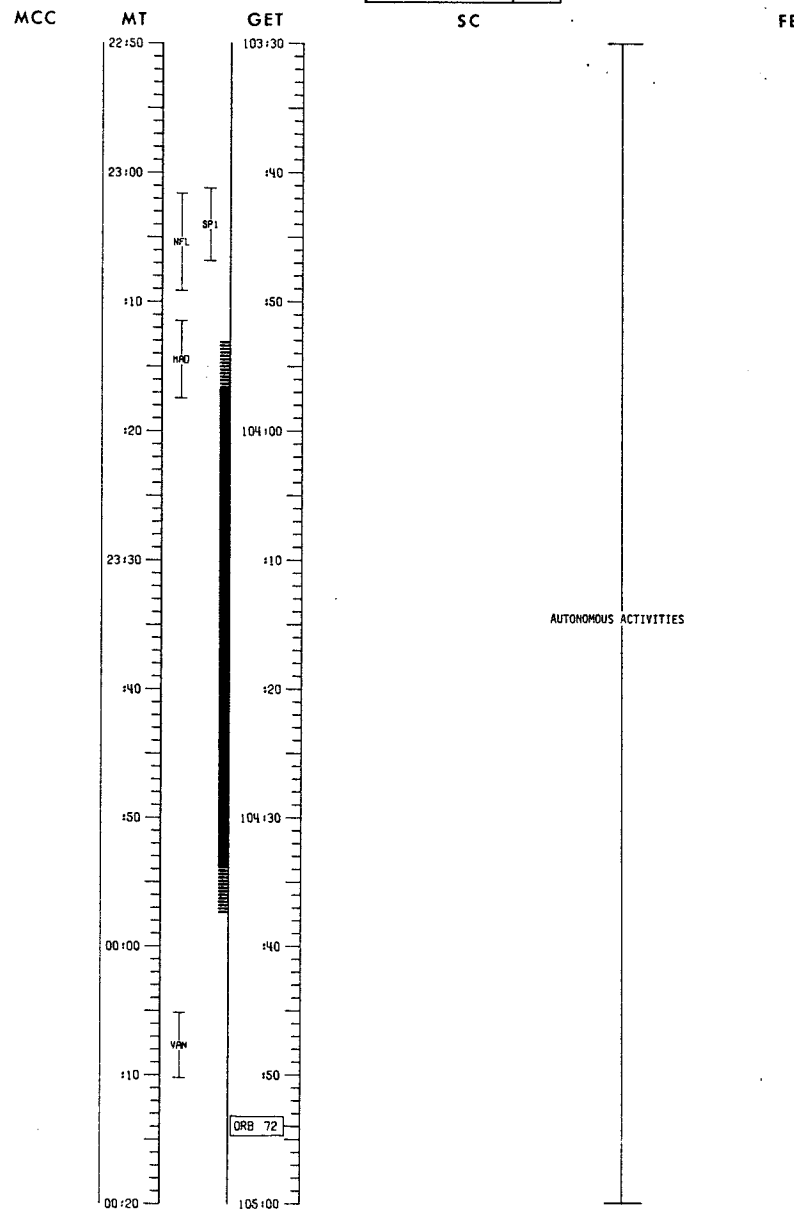
HOUSTON DATE	REV
JULY 19, 1975	61-62



MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-56

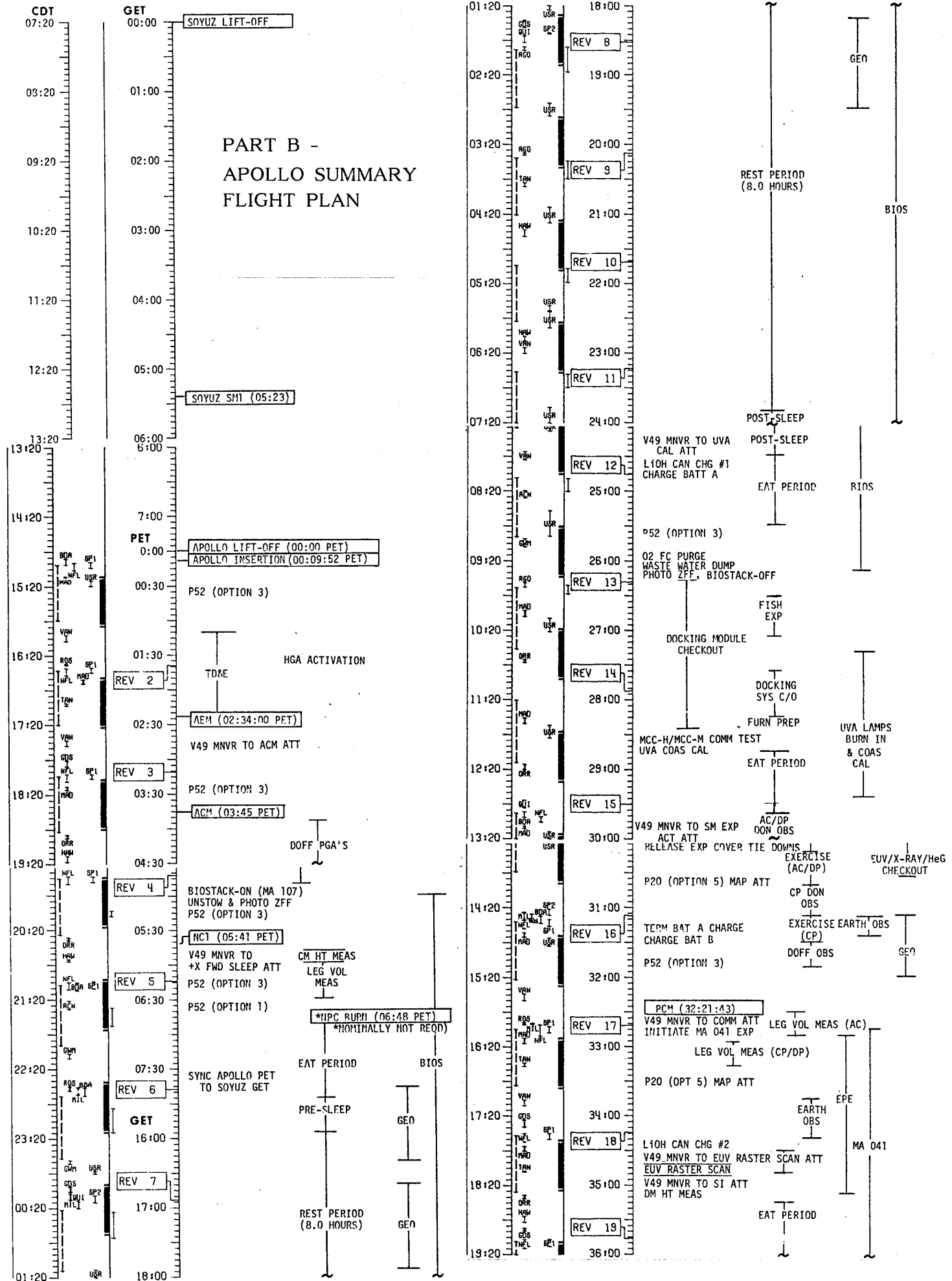
# SOYUZ DETAILED CREW ACTIVITIES PLAN

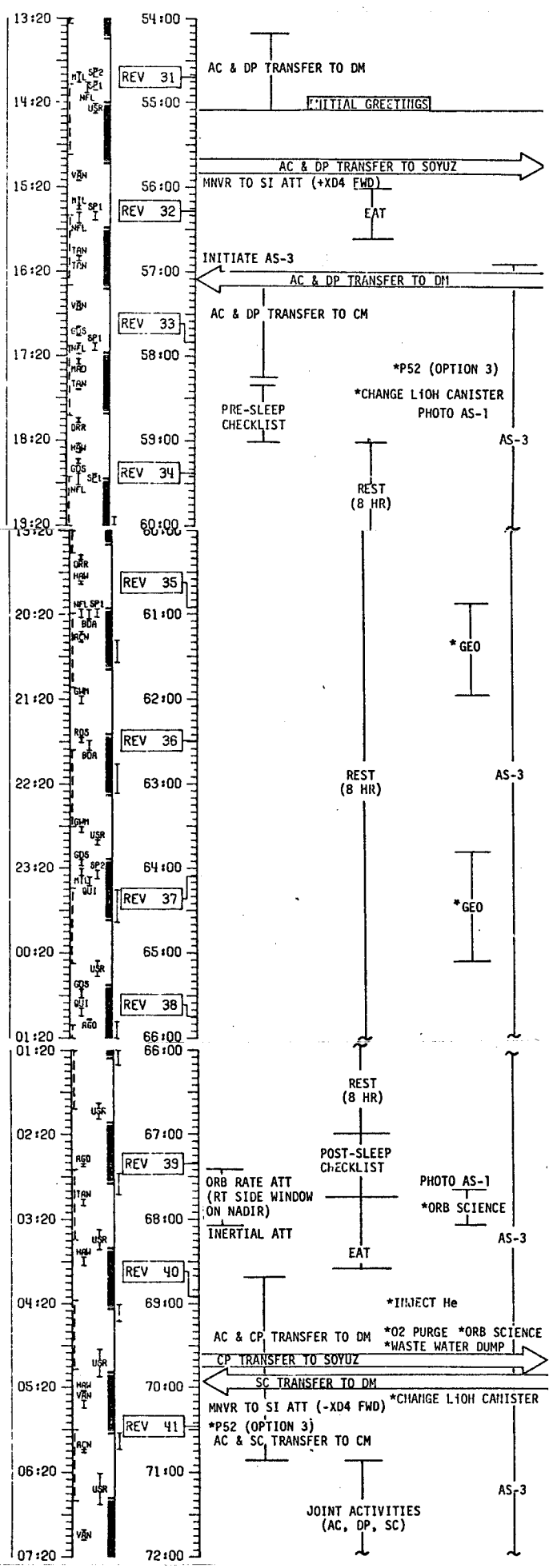
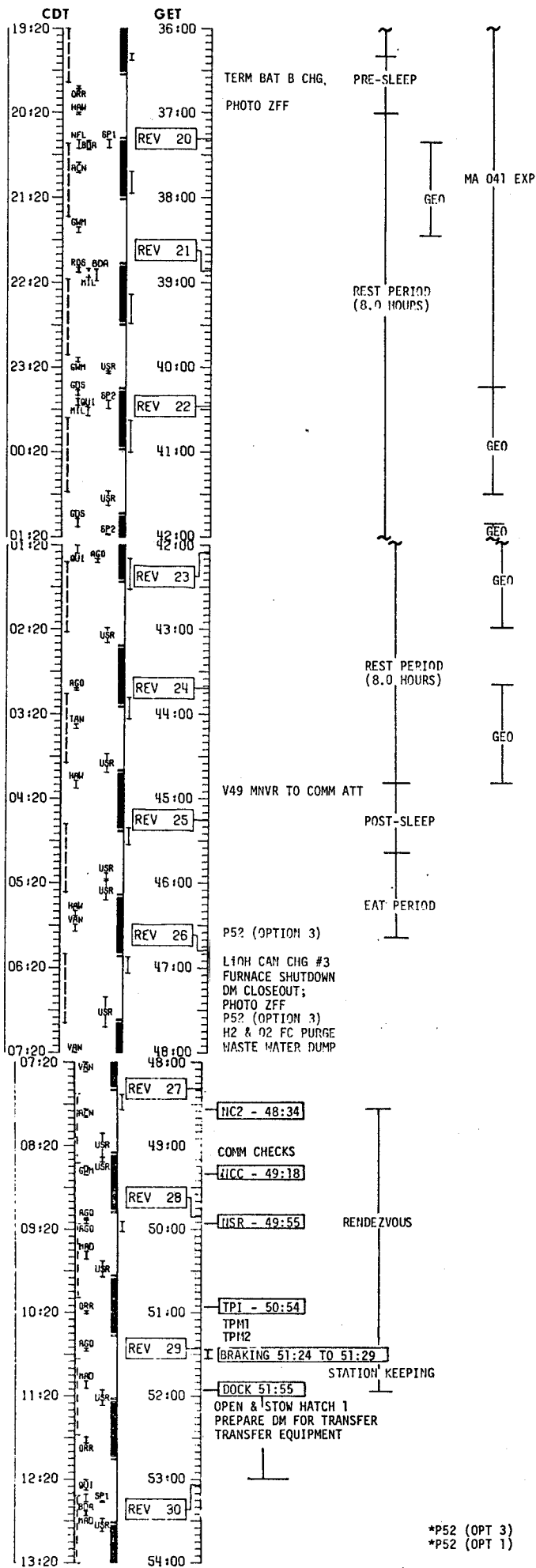
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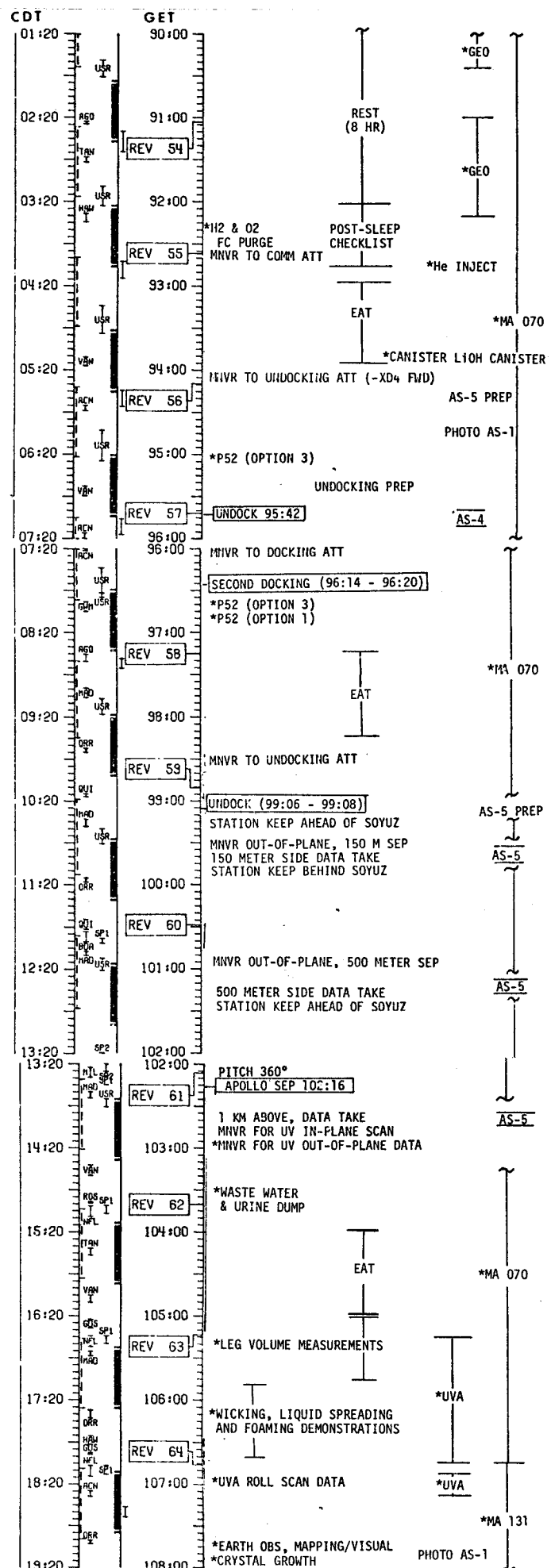
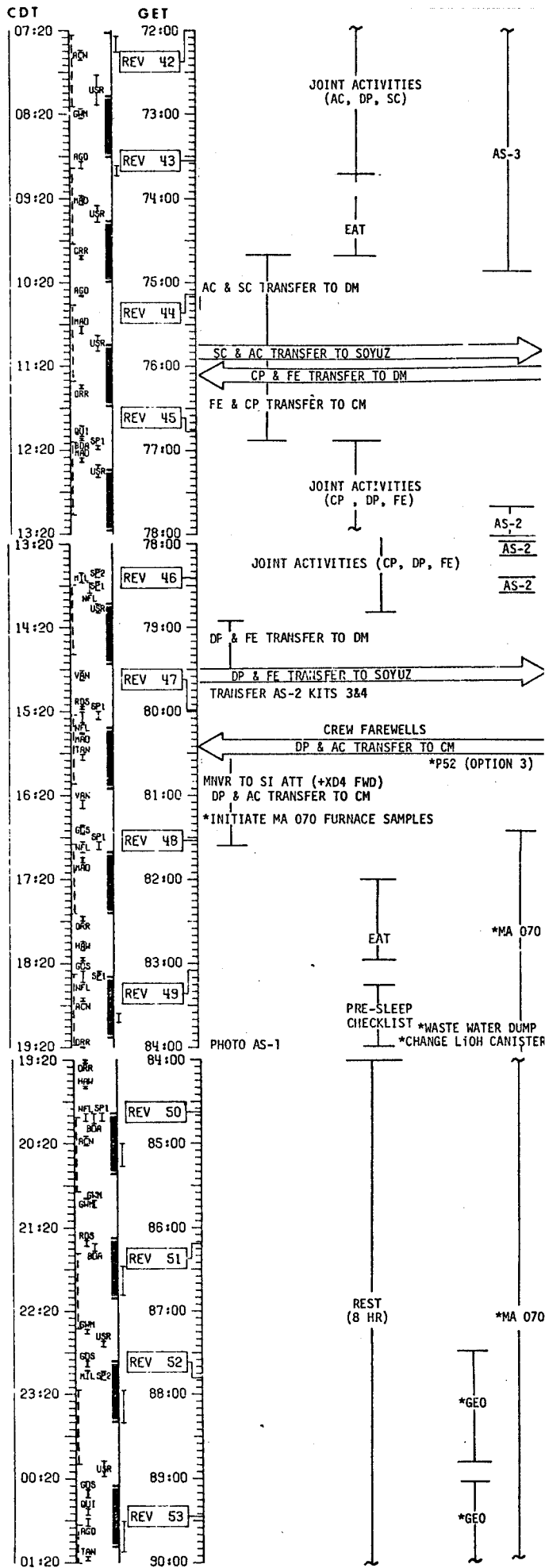


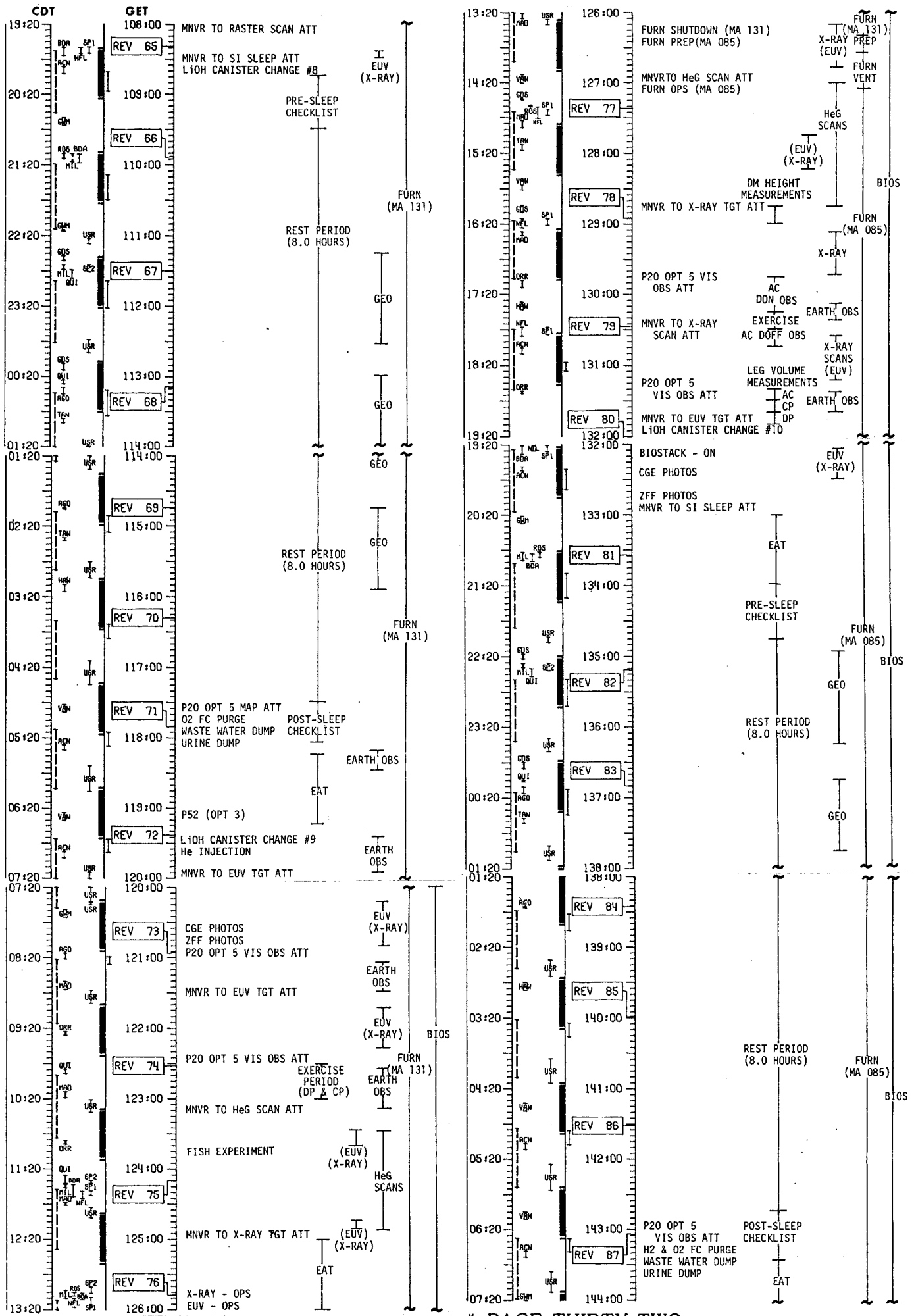
MISSION	EDITION	PUBLICATION DATE	PAGE
ASTP	REVISION 6	APRIL 28, 1975	4.2-57

# PART B - APOLLO SUMMARY FLIGHT PLAN



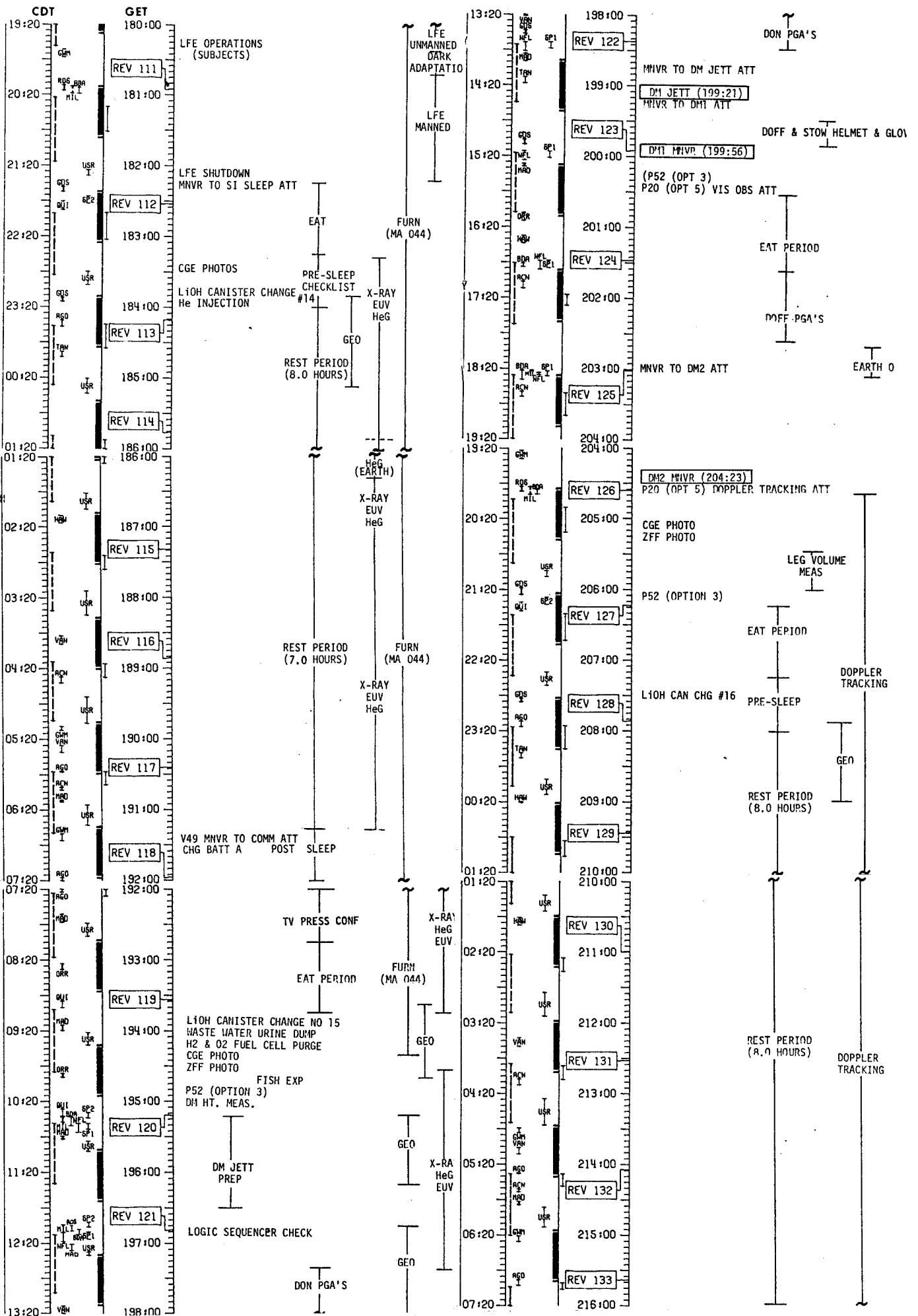






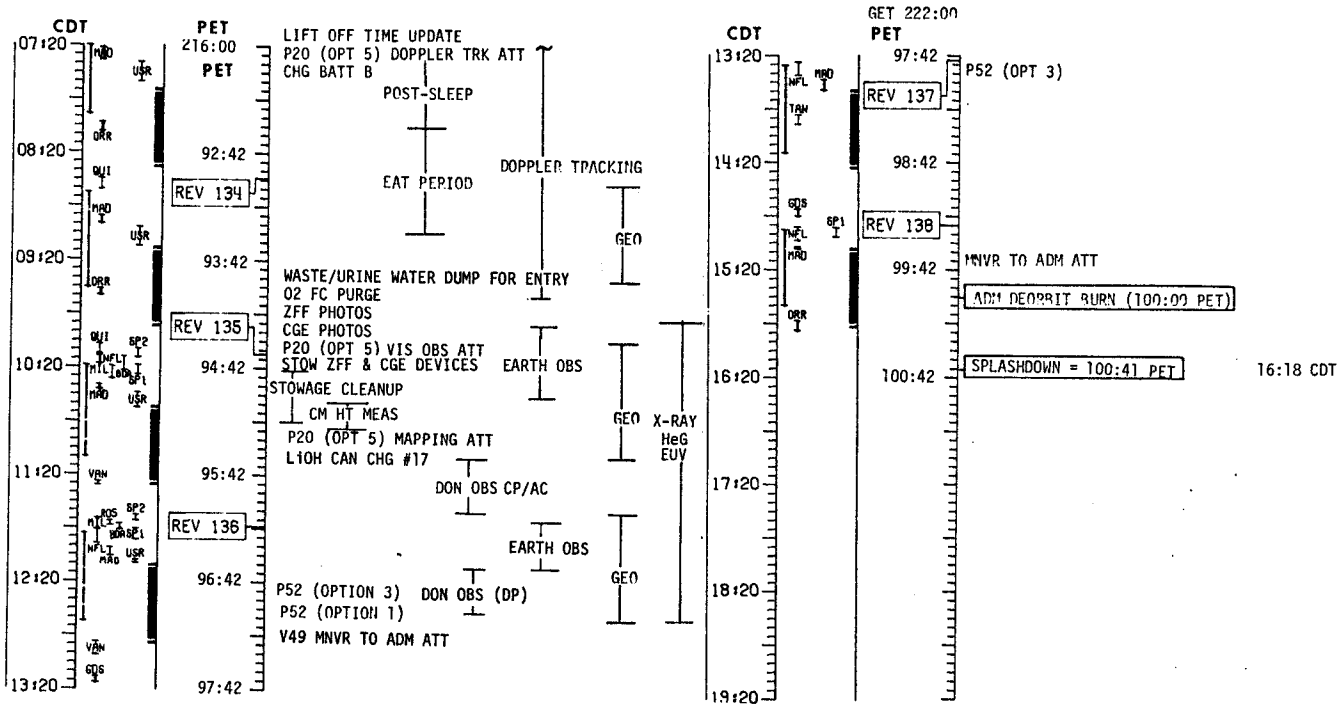






# SUMMARY FLIGHT PLAN

DATE	REV
7/24/75	133-140



AC	alternating current or Apollo Commander	COAS	crew optical alignment sight	F	fahrenheit, thrust (force)
ACCEL	accelerometer	COMB	communications	f	f-stop
ACN	Ascension	COMM HEAD	communications head	FAM	familiarize or familiarization
ACT	activation	CONFIG	configuration	FC	fuel cell
ACE	audio center equipment	COMP	compare or compensate	FCS	fecal containment system
ACM	Apollo circularization maneuver	CONT	continue or contingency	FDAI	flight director attitude indicator
ACQ	acquisition or acquire	CP	Command Module Pilot	FE	flight engineer or onboard engineer (Soyuz)
ADAPT	adapter	CRYO	cryogenic	FL-6	Soyuz still camera
ADM	Apollo deorbit maneuver	CSM	command and service modules	FLT	flight
AEM	Apollo evasive maneuver	CST	central standard time	FM	frequency modulated
AGC	automatic gain control	CTE	central timing equipment	FOV	field of view
AGO	Santiago, Chile (STDN)	CTR	center	FPS	feet per second
AH	ampere hours	CWS	caution and warning system	FR	frame(s)
AJ-BOX	Apollo junction box	CW	clockwise	FR/SEC	frames per second
ALT	altitude	CWG	constant wear garment	FREQ	frequency
ALTM	altimeter	CX	color exterior film	FT or ft	feet
AM	amplitude modulation	DAC	data acquisition camera	FTO	functional test objective
AMP or amp	amperes	DAP	digital auto pilot	FTP	full throttle position
AMPL	amplifier	DB	deadband	FURN or AS-3	Multipurpose Electrical Furnace Experiment
ANT	antenna	DC	direct current	FWD	forward
APDS	androgynous peripheral docking system	DEG	degrees	G	grams or gravity
AOL	Atlantic Ocean line	DEPL	depletion	GA	gimbal angle
AOS	acquisition of signal or acquisition of site	DEPRESS	depressurize, depressurization	GAL	galactic
AS-X	Apollo-Soyuz joint experiment, 1 thru 5	DET	digital event timer	G&C	guidance and control
ASCP	attitude set control panel	DIFF	difference	GDC	gyro display coupler
ASE	artificial solar eclipse (AS-4)	DIR	direct	GDS	Goldstone, California (STDN)
ASTP	Apollo Soyuz Test Project	DK	docked	GED	Geodynamics Experiment (MA 128)
ATS	applied technology satellite	DM	docking module (Apollo)	GET	ground elapsed time
ATT	attitude	DM1	1st shaping maneuver for Doppler	GETI	ground elapsed time of ignition
AUX	auxiliary	DM2	2nd shaping maneuver for Doppler	GLY	glycol
AZ	azimuth	DOPP	Doppler Tracking Experiment (MA 089)	GMT	Greenwich mean time
BAT or BATT	battery	DP	Docking Module Pilot	G&N	guidance and navigation
BEF	blunt end forward	DSE	data storage equipment (CSM)	GNCS	guidance, navigation and control system (CSM)
BD	band	DSKY	display and keyboard	GRP	group
BDA	Bermuda (STDN)	DUA	digital uplink assembly	GWM	Guam
BIOMED	bio-medical data	DV	descent vehicle (Soyuz)	H2	hydrogen
BIOS	Biostack Experiment (MA 017)	DWN	down	HA	apogee altitude
BKWD	backward	E	enter	HAW	Hawaii (STDN)
BMAG	body mounted attitude gyro	EARTH OBS	Earth Observations & Photography (MA 136)	HBR	high bit rate (TLM)
BP	barber pole	ECS	environmental control system	HD	highly desirable or head (VTR)
BRKT	bracket	ED	explosive device	HDC	Hasselblad data camera
BT	burn time	EDT	eastern daylight time	HDS	heads
BU	backup	EFH	earth far horizon	HeG	Helium Glow Experiment (MA 088)
C	centigrade	EI	earth (atmosphere) interface and entry interface	HGA	high-gain antenna
CAPCOM	capsule communicator	EKG	electrocardiogram	HH	hand-held
CAL	calibration	ELECT	electrical	HI	high (switch position)
CAMR or CAM	camera	ELEV	elevation	HOR	horizon
CAN	canister (Soyuz film)	EMER	emergency	H2O	water
CARR	carrier	EMP	erasable memory program	HP	perigee altitude
CB or cb	circuit breaker	EMS	entry monitor system	HR(s)	hours(s)
CC	cubic center	ENG	engine	HRC	Hasselblad reflex camera
CCU	comm carrier umbilical	ENH	earth near horizon	HSB	helmet stowage bag
CCW	counter clockwise	ENT	entry	HTR	heater
CDT	Central Daylight Time	E.O.	earth orbit	I	current
CDU	coupling data unit	EOM	end of mission	ICDU	inertial coupling data unit
CGE	Crystal Growth Experiment (MA 028)	EPE	Electrophoresis, German Experiment (MA 014)	ID	identification
CI	color interior film	EPHEM	Ephemeris	IED	interacting equipment document
CIRC	circulation	EPS	electrical power subsystem	ICG	inflight coverall garment
CK or ck	check	EQUIP	equipment	ICS	intercomm system
CKT	circuit	ERR	error	ICV	Interface control valve (Soyuz)
C/L	centerline or checklist	ETE	Electrophoresis Technology, USA Experiment (MA 011)	IGA	inner gimbal angle
CM	command module or centimeters	EUV	Extreme UV Telescope Experiment (MA 083)	IGN	ignition
CMC	command module computer	EVA	extravehicular activity	IMP	impulse
CMD	command	EVAP	evaporator	IMU	inertial measurement unit
CNTL	control	EXP	experiment	INCR	Increase
CO2	carbon dioxide	EXT	external	IND	indicator
C/O	check out	EXTD	extend		

INIT	initialization	PLU	portable light unit (Soyuz)	TVC	thrust vector control or television camera
INT	interval	PM	phase modulated	TMR	tower
INTEG	integrity	P/M	photos & movies	UCTA	urine collection transfer assembly
IPV	Interface pressure valve (Soyuz)	POL	polarity or polarizing	UDL	up data link
IU	instrumentation unit	PNL	panel	ULL	ullage
IV	interface volume	POS	positive	UMB	umbilical
IVC	intervehicular communications	POT	potable	UNBAL	unbalance (meter)
IVL	intervalometer	PRD	personal radiation dosimeter	UNDK	undo
IVT	intravehicular transfer	PREF	preferred	USA, US	United States of America
IR	inclination of the ascending return	PREL	preliminary	USSR or USR	Union of Soviet Socialist Republics
JETT	Jettison	PREP	preparation	UVA or AS-5	Ultraviolet Absorption Experiment (MA 059)
JSC	Lyndon B. Johnson Space Center	PRESS	pressure	V	velocity or volt
K-3A	camera (Soyuz)	PRIM	primary	VAN	USNS Vanguard
KG	kilogram	PRO	proceed	VER	verify
KM	kilometer	PROP	proportional	VGIMU	velocity to be gained as related to IMU orientation
KSC	John F. Kennedy Space Center	PRN	pseudo random noise	VGX	velocity to be gained (X-body axis)
kwh	kilowatt hour	PRPLNT	propellant	VGY	velocity to be gained (Y-body axis)
L	liter	PRV	pressure relief valve	VGZ	velocity to be gained (Z-body axis)
LA	launch azimuth	PSIA	pounds per square inch absolute	VIS	visual
LAT	latitude	PSID	pounds per square inch differential	VR	resultant velocity
LBR	low bit rate (TLM)	PSIG	pounds per square inch gage	VTR	video tape recorder
LB or lb	pound(s)	PT	point	VX	velocity along the X-axis
L/D	lift/drag	PTC	passive thermal control	VY	velocity along the Y-axis
LDG	landing	PTT	push to talk	VZ	velocity along the Z-axis
LDMK	landmark	PV	propellant utilization	VHF	very high frequency
LEB	lower equipment bay	PUGS	propellant utilization gaging system	VLV	valve
LFE	Light Flash Experiment (MA 106)	PWR	power	VOX	voice keying
LH	left-hand	PXX	Program XX	VXX	Verb XX
L/H	local horizontal	PYRO	pyrotechnic	W	watts
L10H	lithium hydroxide	QTY	quantity	WRT	with respect to
LLOS	landmark line of sight	QUAD	quadrant	WT	weight
L/O	lift-off	QUI	Quito, Ecuador (STDN)	XFER	transfer
LONG	longitude	R	roll or range	XMIT	transmit or transmitter
LOS	loss of signal or line of site	RAD	radiator, radial, or radiation	XPNDER, XPNDR	transponder
L/S or LS	landing site	RCDR	recorder	X-RAY	X-Ray Observation Experiment (MA 048)
LT	light	RCS	reaction control system	Y	yaw
LTG	lighting	RCVR	receiver	ZFF or AS-1	Zone Forming Fungi Experiment (MA 147)
LUB	lubrication	REACQ	reacquire	ΔAz	azimuth change (difference)
LV	launch vehicle	REFSPMAT	Reference Stable Member MATrix	ΔH	altitude change (difference)
L/V	local vertical	REG	regulator	ΔP	pressure change (difference)
LVPD	launch vehicle pressure display	REL	release	ΔR	position change (difference)
M	mandatory, meter or mass	REQD	required	ΔV	velocity change (difference)
MAD	Madrid, Spain (STDN)	RETR	retract	ΔVC	velocity change at engine cutoff
MAG	magazine (camera)	REV	revolution	ΔVT	velocity change loaded pre-burn
MAN	manual	RH	right-hand	#	numbers
MAX	maximum	RHC	rotational hand controller	θ	angle between the +X axis and a look angle vector with values from 0 to 180 deg
MAX Q	maximum dynamic pressure	RMT	remote	∅	angle between the -Z axis and the projection of the look angle vector on the Y-Z plane with values from 0 to 360 deg
MCC-H	Mission Control Center - Houston	RNDZ	rendezvous	&	and (ampersand)
MCC-M	Mission Control Center - Moscow	ROG	range or ranging	16KM	movie camera (Soyuz)
MDC	main display console	ROS	Rosman, North Carolina (STDN)		
MEAS	measurement	RSI	roll stability indicator		
MED	medical or medium	RT	realtime		
MET	mission event timer	RTC	realtime command		
MGA	middle gimbal angle	RWD	rewind		
M/I	minimum impulse	RXX	Routine XX		
MICR	microphone	SA	shaft angle		
MIN	minimum or minute(s)	SAM	Stratospheric Aerosol Measurement Exp		
MIR	mirror	SATT	satellite		
MLA	Merrit Island, Florida, launch area	S-BD	S-BAND		
MM or mm	millimeter	SC	spacecraft or Soyuz Commander		
MNA or MNB	main electrical bus A or B	SCS	stabilization control system		
MNVR	maneuver	SE	southeast		
MO	manual orientation	SEC	second or secondary		
MON	monitor	SECO	S-IVB engine cutoff		
MONO	monaural	SECS	sequential events control system		
MPL	mid-Pacific line	SEF	sharp end forward		
MPS	main propulsion system or meters per second	SEL	select		
M/R	mixture ratio (fuel to oxidizer)	SEP	separate or separation		
MS	mass spectrometer	SEQ	sequence		
MSFC	George C. Marshall Space Flight Center	SI	solar inertial		
MT	Moscow time	S-IVB	Saturn IVB (third stage)		
MTN	motion	SJ-BOX	Soyuz junction box		
MTS	mountains	SLA	service module DM adapter		
MTVC	manual thrust vector control	SLOS	star line-of-sight		
MULT	multiplier	SM	service module		
N2	nitrogen	SPT	USSR tracking ship (off Nova Scotia)		
NAV	navigation	SP2	USSR tracking ship (off Honduras)		
NC1	first phasing maneuver	SI	solar inertial		
NC2	second phasing maneuver	SPEC	special		
NCC	corrective combination maneuver	SPS	service propulsion system		
NEG	negative	SR	sunrise		
NFL	Newfoundland, Canada (STDN)	SS	sunset or subsolar		
NK	Nikon camera	STBY	standby		
NM	nautical miles	STDN	Spaceflight Tracking and Data Network		
NPC	plane change maneuver	S.V.	state vector		
NO.	number	SW	switch		
NOM	nominal	SXT	sextant		
NSR	coelliptic maneuver	SYS	system		
NXX	Noun XX	T EPHEM	time of Ephemeris update		
O2	oxygen	TA	trunnion angle		
OBS	observation/OPS biomed system	TAN	Tananarive, Madagascar (STDN)		
ODB	Operational Data Book	TB	time base or talkback		
O/F	oxidizer to fuel ratio	TBD	to be determined		
OGA	outer gimbal angle	TBS	to be supplied		
OID	octal identifier	TC	time (camera setting)		
OM	orbital module (Soyuz)	TCA	time of closest approach		
OMNI	omnidirectional antenna	TCV	temperature control valve (Soyuz)		
OPR	operate	TD	touchdown		
OPT	option	T&D	transposition and docking		
ORB	orbital or orbit	TD&E	transposition and docking and DM ejection		
ORDEAL	orbit rate display earth and lunar	TEMP	temperature or temporary		
ORIENT	orientation	TERM	terminate		
ORR	Orroral, Australia (STDN)	TGT	target		
OVBD	overboard	TGR	time of gyro release (Soyuz)		
OVHD	overhead	THC	translation hand controller		
P	pitch, program, or pressure	TIG	time of ignition		
PAD	voice update	TK	tank		
PART	particle	TK-X	television camera 1 thru 4 (Soyuz)		
PC	plane change or chamber pressure	TLM or TM	telemetry		
PCM	pulse code modulation or phase correction maneuver	TPF	terminal phase final		
PCU	pressure control unit (Soyuz)	TPI	terminal phase initiation		
PET	phased elapsed time	TPM	terminal phase midcourse		
PEV	pressure equalization valve	T/R	transmitter/receiver or transmit/receive		
Pg	page	TRANS	translation		
PGA	pressure garment assembly	TRK	track or tracking		
PHOTO	photograph	TRUN	trunnion		
PKG	package	TV	television report (to control centers only)		
P/L	portable light (Apollo)	TV-X	television in accordance with the Public Information Plan		

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