

ASTP (USA) MC302/1
Time: 16:41 CDT, 81:21 GET
7/18/75

PAO Apollo Control. Ground elapsed time 81 hours, 21 minutes. Acquisition coming through Goldstone as docking module pilot, Deke Slayton, works on the furnace in the docking module, installing the zero-g processing magnet experiment of Dr. D. J. Larson of Grumman Aerospace Corporation. One of the final activities for the evening as - is crew members complete transfer of equipment from the docking module into the command module. We'll hold the line up for Cap Comm, Dick Truly. Flight director is Neil Hutchinson.

CC-H Apollo, Houston. Hello at Goldstone for 6 minutes.

ACDR Hello, Dick, how are you?

CC-H Hi, Tom. I'm doing great, how about you?

ACDR Feels good to be back here and had a good day today.

CC-H Well, I can tell that - that - everytime I turned on the radio or watched the TV, somebody was passing the word around the country about you five guys. It sounded real good.

ACDR Well the time line worked out pretty good. It was crowded as the dickens, the spacecraft was full, but it was all done.

CC-H Well, that's super. It looks like we're real squared away.

ACDR Right now, Deke is strolling the drogue up to the docking module. I'm holding the probe and we've got (laughter) hatches and boxes in the tunnel.

CC-H Okay.

MCC-H 176, push back 73 dash -

MCC-H Ground - cotrol - do you read me now at 176?

CC-H Apollo, Houston. Just for our information we were wondering if Alexey has called over yet and told you that it was okay to dump tunnel 2 after their second integrity check, from the second part of it.

ACDR No, he said - he acknowledged that our integrity check was okay - I'll check. I'll recheck with him again.

CC-H Okay, there's no hurry, we were just LOS for awhile and we noticed the time was getting about that time where you might of heard and we were just wondering. And Apollo, Houston. We're 30 seconds from LOS, give you a call at Newfoundland in about 5 minutes.

ACDR Okay, and I'll check with him, Dick.

CC-H Okay.

PAO Apollo Control. Ground elapsed time 81 hours, 28 minutes. Acquisition coming again in 5 minutes. ECOM confirming to flight director, Neil Hutchinson, here in the control center, that the docking module and command module pressure has been equalized at 5 PSI. And Tom Stafford discussing with Cap Comm, Dick Truly, Truly commenting how things went so well today and Stafford indicating the time line was a little crowded, but everything went well. Slayton stowing away his probe and drogue in the docking module and once again interference coming on the air-to-ground control tower, apparently from Los Angeles. This has happened frequently throughout the docked phase of the mission.

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Interference coming from apparently LA area as well as Miami and also London. Next acquisition will be in 4 minutes. We'll hold the line up for this pass as Apollo/Soyuz concludes the 47th revolution.

END OF TAPE

ASTP (USA) MC303/1
Time: 16:51 CDT, 81:31 GET
Date: 7/18/75

CC-H Apollo, Houston. Newfoundland for 7 minutes.
CC-H Apollo, Houston. AOS in Newfoundland for 2 minutes -
for 7 minutes, excuse me.
USA Roger.
CC-H And Apollo, Houston. Just so we can keep our records
straight, wonder - if we could verify a couple of switches. One is on panel
181 - like to verify the the TV amplifier has been put to bypass.
DMP That's verified Dick.
CC-H And the other one is - when we had data which we
don't have right now here at Newfoundland - it didn't look like we had
started the - or gotten the waste stowage vent valve to vent. So, we'd
just like to verify that those 2 callouts about 81 hours in the flight
plan in the CP's column in the flight plan had gotten done.
USA Yea, that's done, we have the QD attachment on the
waste vent, and - the vent is open.
CC-H Okay, real fine. We'll be locking up on ATS here
very shortly. Sometime this evening, I've got a new block data pad
for you. So at your convenience when somebody gets out the up-
dates book I'll be glad to read it up.
USA Okay, maybe we - -
ACDR Soyuz, Apollo. (Russian)
USSR (Russian)

END OF TAPE

ASTP (USA) MC304/1
Time: 17:01 CDT, 81:41 GET
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USSR (Russian)

USSR (Russian)

USSR (Russian)

CC-M (Russian)

CC-H Apollo, Houston. We've been having some discussion on the ground here as to what is causing the echo that you've been hearing. I am presently transmitting simo S BAND through the satellite and VHF through the Madrid tracking station. Wanted to get a voice check with you and see if you've got an echo now.

ACDR We've got a heck of an echo, Dick.

USSR (Russian)

CC-H Okay. Fine Tom. Stand by.

CC-H Okay. Apollo, Houston. Now we're configured where the VHF uplink is inhibited at Madrid and I'm transmitting only S BAND through the satellite. How do you read and how's the echo?

ACDR You're reading loud and clear, Dick. And there's absolutely no echo.

CC-H Okay. Copy. Thank you very much.

END OF TAPE

ASTP (USA) MC305/1
Time: 17:11 CDT, 81:51 GET
7/18/75

CC-H Apollo, Houston. In looking through the checklist, we thought there might be some things you might want to get ahead on. One that you could get ahead on, if you want, that we're interested in is the waste water dump listed on the next flight plan page of about 83 hours or just before bedtime. We're going to dump the waste water tonight to 50 per cent instead of 60 per cent per the flight plan and that's a 7 minute dump. We'd like to watch it on - while we have data, which we do now, so if you'd like to do it now give us a MARK. And I'll time it for you, it's a 7 minute dump. Also, we were wondering if you're out of the DM checklist yet?

CMP Deke is just finishing up from the DM checklist and roger, I'll start that dump in a minute or two here, Dick.

CC-H Okay. When you start it why don't you give me a MARK and I'll be sure and remind you.

CMP Hey, and just an idea. We'd sure much rather use that water with the secondary loop going - if you guys would like to get rid of some of it that way.

CC-H Okay. Stand by just a second, please.

CC-H Vance, that would be perfectly okay with us. Why don't you activate the secondary and we'll - we may have to do some dump later on this evening before you go to bed, but we'll recompute it.

CMP Okay. Very good. We'll, op - we'll start the secondary (garble)

CC-H Okay.

CC-H Apollo, Houston. If you'll give us ACCEPT, we'll give you new state vectors and uplink the jet ON monitor load.

DMP Dick, you reading us?

CC-H Apollo, Houston. Deke, I think that was you and I barely heard you, say again.

DMP Rog. I want to give you a little status on the DM here. We started getting master alarms with a, with partial pressures, A and B coming on at the same time. And we've obviously got enough total pressure and it's stable at about 170, but what's going on is that it's glitching periodically and dropping down in the range of 100 to 110, which triggers the lights. So we've pulled the circuit breaker on the C&W in the DM.

CC-H Okay, Deke. Copy.

DMP I popped in some more 02 to make sure we have plenty of it in here and I think it's just a transient thing that's happening to the sensors.

CC-H Okay Deke. Thanks for letting us know.

END OF TAPE

ASTP (USA) MC306/1

Time: 17:21 CDT, 82:01 GET

Date: 7/18/75

CC-H Apollo, Houston. Deke since you made your call, we've been looking at the PP - PPO2, and CO2, - 2 partial pressure sensors in the docking module. And they've - they're steady now. What we were thinking about doing, while we had data, was to go ahead and have you push the CAUTION and WARNING circuit breaker back in, and see if there might be a relationship between that circuit - and those CAUTION and WARNING being operable, and the two circuit breakers. We are not planning on sleeping this way if it does keep bugging you. But we've got about another 20 minutes of data here on the ATS.

ACDR Okay, I'll put the breaker back.

CC-H Okay.

ACDR That was just the - to (garble) put the breaker in -

CC-H Okay. - Okay.

ACDR Is in first data (garble) working on the furnace.

Parameters over 70.

CC-H Okay, real fine, Deke. Thank you for letting us know. Incidentally the uplink is complete. But we'd like you to leave the computer in it - the UP TELEMETRY switch in ACCEPT. This is the night you'll sleep with it in ACCEPT. And we'll get the long EMTN over night. But the computer's yours.

ACDR Okay, understand, leave it in ACCEPT.

CC-H Okay.

END OF TAPE

ASTP (USA) MC307/1
Time: 17:31 CDT, 82:11 GET
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CC-H Apollo, Houston. I've got some news down here whenever you guys are settled down and would like to hear it. Either - we've got about ten minutes left here on this ATS pass, and several more passes this evening, so anytime you'd like to hear it, I'll read it up to you.

ACDR Well, why don't you wait till later? We're still busy kind of cleaning up the huge - huge pile here, and getting ready for supper. We'll take - we'd sure like some on the next pass Dick.

CC-H Okay. Why don't you call me and tell me when you're ready. It's just sitting here and I figured you were busy as beavers straightening up. So just press on with it.

ACDR Okay.

END OF TAPE

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CC-H Apollo, Houston. We're 2 minutes from ATS LOS and we're going to drop out 3 or 4 minutes. And I'll call you at Orroral Valley.

ACDR Real good. Thank you, Dick.

CC-H Okay. See you later.

ACDR Okay.

CC-H Apollo, Houston. Orroral Valley for 4 minutes.

ACDR Roger, Dick.

CC-H Apollo, Houston. We're one minute from LOS. Hawaii at 82:45, see you there.

ACDR Real good. Thank you.

CC-H Okay.

END OF TAPE

ASTP (USA) MC309/1
Time: 17:51 CDT, 82:31 GET
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PAO Apollo Control, ground elapsed time 82 hours, 31 minutes with loss of signal through Orroral Valley tracking station in Australia. Next acquisition will be through Hawaii. The crew falling slightly behind in their activities as they remove equipment from the docking module and stow it in the Command Module. They are presently about 15, 20 minutes behind. They will go into their eat period, then their presleep activities and then scheduled to beddown for the night at 7:20 p.m. eastern daylight time. We will have acquisition at 13 minutes and 10 seconds through Hawaii. At 82 hours, 32 minutes, this is Apollo Control.

END OF TAPE

ASTP (USA) MC310/1
Time: 18:05 CDT, 82:45 GET
Date: 7/18/75

PAO Apollo, Control. Ground elapsed time 82 hours,
45 minutes, acquisition through the Hawaii tracking station.
CC-H Houston, Hawaii for seven minutes.
ACDR Okay, Dick,
CC-H Apollo, Houston. One minute until LOS, Goldstone
at 82:57. See you there.
ACDR Roger.

END OF TAPE

ASTP (USA) MC311/1
Time: 18:15 CDT, 82:55 GET
7/18/75

USA (Garble)
CC-H Apollo, Houston. Short pass at Goldstone for 2
minutes.
CC-H Apollo, Houston. Short pass set for Goldstone for
2 minutes.
ACDR Houston go ahead.
CC-H Tom, we got a real low elevation pass at Goldstone,
just a couple of minutes here and we'll pick you up at Newfoundland in
about 10 minutes from now.
ACDR Okay. Thank you.
MCC-H - - thank you very much.
PAO Apollo Control. Ground elapsed time 83 hours, 3
minutes. Loss of signal through Goldstone. Acquisition through New-
foundland tracking station in 2 minutes, 50 seconds. We'll hold the
line up for the Newfoundland pass and pick up of the ATS 6 satellite.

END OF TAPE

ASTP (USA) MC312/1
Time: 18:25 CDT, 83:05 GET
7/18/75

CC-H Apollo, Houston, through the ATS. How do you read?
ACDR Loud and clear.
CC-H Okay.
ACDR Dick everytime anybody's come over the ATS, they've
always had an echo. Over.
CC-H Stand by just a second, Tom.
ACDR Then it was okay.
CC-H Okay, Apollo, Houston. How do you read now? 1,2,
3,4,5,5,4,3,2,1, short comm. Out.
ACDR Loud and clear.
CC-H Okay, fine. I think what - I think possibly what
was happening there is that we also had AOS Newfoundland, and I just didn't
give you a call cause we were talking about something and that's VHF.
ACDR Roger.

END OF TAPE

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CC-H Apollo, Houston.

ACDR Go ahead Houston.

CC-H Tom, we've got about 35 more minutes here, in this
ATS pass, and I've got a list of things here, not major things, but I
wanted to be sure to talk to - start talking to you about them. And
getting a few pieces of information up and down. And we may get through
a little bit early. And we were thinking about just saying good night,
whenever we get through with the list.

ACDR Okay, Dick, but you've got that double - you've a
real echo again.

CC-H Okay, standby a second please.

CC-H Apollo, Houston, how do you read now?

ACDR It's loud and clear, wait until I get a pencil, Dick.

CC-H Okay, real fine, Tom.

ACDR Okay, Dick, everybody's on a headset. Go ahead.

CC-H Okay, real fine. First thing - our data show that
we have not gotten a good purge. Even though Vance did a report while
ago that the waste stowage vent valve - had been opened. It may be clogged
we're not sure. Assuming that it is open, what we'd like to do is - go
ahead and close the waste stowage vent valve. And then we'd like to do -
and that combined with the - PPO2 sensor problem or potential problem
we had in the docking module. What we'd like you to do is get out the
docking module checklist, turn to page 15-1 and in there is a short
procedure which is entitled DM/CM O2 purge. We'd like you to accomplish
that procedure except in the procedure, it says purge until the PPO2 is
greater than 240 millimeters, - this time you can change that number
to 165. We want to pump up the PPO2 to 165 or greater. And - if that -
and then we'll what we'd suggest is sleeping with the CAUTION and WARNING
circuit breaker pushed in, and Deke, if it wakes you up during the
night at all and if it's a problem, just pull it out and go to sleep
and don't worry about it.

DMP Hey, Dick, in partial was 170 to 180, when I left
it. I've never seen it any lower than that except for those transients.

CC-H Okay, our data shows 150 now Deke. You might - -

DMP Okay, maybe our gage - -

CC-H Okay?

DMP Maybe our gage is bad now.

CC-H Okay. - While we think about that then, one other
reminder for you Deke is we want to go ahead, and get the furnace started
for the flight plan there.

CC-H And the reason we're - want to go ahead and - get
started, because the longer we delay it, it gives us a little problem
tomorrow in thinking about the helium injection. Okay, the - the next
item I have is - is that we do want to do a short water - waste water
dump. What we want to do is dump the waste water for 4 minutes, and
if you'll - go ahead and start that any time. And give me a MARK. I'll
time it for you.

DMP Okay, that's in work right away.

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CC-H Okay, another thing out of the presleep checklist you might do for us is give us a VERB 74. And also read us down the battery readings that's Betsy, and the two PYRO batteries, the voltages.
ACDR Okay, VERB 74, coming at you now.
DMP Okay, BAT C is reading 37. PYRO A is 37. And PYRO B is 37.

CC-H Okay, sounds real good. Just a second let me look down my list here.

USA Okay.

CC-H I got two pieces of things I need to get up to you. One is I want to read to you a block data pad that's - so you need the updates book and another one, I've got some changes I want to put in the flight plan supplement under - in the section that has Vance Brand's meals in it.

ACDR Under Vance Brand's meals. Okay, hang on a minute.

CC-H Okay, real fine.

ACDR (Garble)

ACDR Starting to dump now.

CC-H Okay, I'll call you back when to secure it. Thank you.

DMP Okay, Dick. I've got the supplemental and I'm on Vance's pages here - waiting.

CC-H Okay, first the comment Deke - the first one is on page 1-26.

DMP Okay.

CC-H Okay, over there in the left column for day 5, meal A. After breakfast roll add the number 2. And delete item below it, raisin and spice cereal.

DMP Okay. Copy.

CC-H Okay, down in meal B after Salmon, add the number 2 and then down in meal Charlie delete fruit cocktail.

DMP Okay, got those.

CC-H Okay, now on the next page, Deke, I want you to make the same - changes exactly to day 9. Meals A, B, and C.

DMP Okay.

CC-H Okay. That's got that, and - again the other thing I have here is a block data pad for the update book.

ACDR Okay, Dick, I've got that.

CC-H Okay, if your ready to copy I'll start with NOUN 33.

CC-H I'm sorry Tom we -

ACDR Okay.

CC-H Are you ready to copy?

ACDR Go ahead.

CC-H Okay.

ACDR Okay, yea, go ahead.

CC-H Okay, starting with NOUN 3 - -

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CC-H I'm sorry Tom. We - -
ACDR Okay.
CC-H Are you read to copy?
ACDR Go ahead.
CC-H Okay.
ACDR Okay, yeah, go ahead.
CC-H Okay, starting with NOUN 33. 129, 38, 34, minus 1989,
plus 0000, plus 0213, 004, 331, 352, 1820, 0008, 198, 15602, 25773, 2552,
2705. The second item there, the NOUN 66 is NA, bank angle 297, 042,
3235, 3536, plus 1475, minus 16425. And Tom, before you go ahead and
do your readback, we're at the point where we can stop the waste water
valve.
ACDR Okay, waste water dump OFF.
CC-H Okay, I understand you've secured the waste water
dump and I'm ready to hear the - -
ACDR (Garble)
ACDR Vance is at work on that. I assumed (garble).
Sorry.
CC-H Okay, fine. Now - and I'm ready for the readback.
ACDR Okay, 129, 38, 34, minus 1989, plus all balls, plus
0213, 004, 331, 352, 1820, 0008, 198, 15662, 25773, 2552, 2705. NA.
297, 042, 3235, 3536, plus 1475 and minus 16425. Over.
ACDR Okay, good readback. Incidentally, I forgot to tell
you, this is for rev 78. And I've got three remarks for you on the pad.
Number 1, it's an orbital REFSMMAT. Number 2, the CMSM set is yaw right
to 037 degrees. And note 3 is a NOUN 48, the trims or pitch trim is
plus 0.11, yaw trim minus 0.63. And the weights are as follows: CSM,
26650. Docking Module, 4620. Over.
ACDR Okay, readback rev 78, orbital REFSMMAT CMSM yaw
right 037 degrees, NOUN 48, pitch plus 011, yaw minus 063. Weight
CSM 26650, DM 462, over.
CC-H Okay that's a good readback. I missed one thing
in the flight plan, supplement on the meals, but it's not important
to get it up tonight. If you still have the book there, I'll give it
to you. Otherwise, I'll catch it later.
DMP I've got the book right here. Go ahead. Okay,
again it's still in the same section. It's in Vance's and it's the
first one for day 7, which is on page 1026, Deke, up there in meal alpha.
DMP Okay. Go ahead.
CC-H Okay. Stand by just a - oh okay. Excuse me. Okay.
Day 7, meal alpha, you need to put a 2 after the breakfast roll and do
the same thing again on the next page to day 11.
DMP Okay.
CC-H Okay, let me get off the line here in a second. I
think that's almost all the official things I have. I do have some news
here in a second but let me come back to you.
ACDR Okay.
CC-H Apollo, Houston. That's all the official business

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we have. We've got about 20 more minutes left in the - in this ATS pass and I've got some news here if you'd like to hear it.

ACDR Okay, go ahead. And we'll start this DM purge in about 10 to 15 minutes or so.

CC-H Okay, Tom. Fine, and - well you'll get the rest of the items in the presleep checklist and the flight plan I'm sure so no problem. Well, first of all the big news here today was you guys. You dominated all the news media all day. All three network news programs this evening had Apollo/Soyuz featured on them and the press coverage was very complete and they're just - they followed all you activities as I'm sure they will tomorrow. The House has passed and sent to the White House a bill extending federal price controls on domestic oil. Under the bill passed yesterday price controls expiring August 31 will continue through the end of the year. President Ford, however, is expected to veto the bill. The US Department of Agriculture predicted a small buildup of the world's depleted food stock this coming year, thanks to a record crop estimate of almost 10 billion tons of wheat, corn, and other cereals. Administration officials citing statistics released by the Commerce Department say the worst recession since World War II has ended and ended between April and June and a recovery has started. The White House Office of Management and Budget has recommended dropping the F15, excuse me, the F18 fighter program and has ordered that United States Navy to develop a new and low cost plane. An exhibit of American home furnishings and gadgets has opened in Moscow to large enthusiastic crowds. Called "Technology for the American Home," the exhibit is designed to give the Soviets an idea of life in the United States. Also it was released today that a record number of tree seedlings were planted in Texas during the year. And we're reminded of that since you guys exchanged tree seeds on orbit today. Over 51 million tree seedlings were planted in Texas during the past year. On the sports scene, the Phillies took the Astros 6 to 5 in the season opener Thursday night and it was Astro's 60th loss of the year. In the American League the Oakland A's picked up ground on both their closest rivals in the western division, while the Red Socks gained a full game on their second place rivals in the eastern division. The A's now in the lead by 9 and a half games in the west and the Red Socks by 5 and a half games in the east. Rod Carew on the first round lead in the \$200,000 Pleasant Valley Classic gold tournament. He made 6 boggies, excuse me, he made 6 birdies and a boggie Thursday for a 5 under par 66 and a single stroke lead over Millard Barber. Last item in the news today is that wide receiver Bobby Hays, who was the double gold medal winner in the 1964 Olympics and a ten year NFL veteran, Thursday was traded by the Dallas Cowboys to the San Francisco 49'ers in exchange for an undisclosed dol - -

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CC-H - -64 Olympics and a 10 year NFL veteran Thursday was traded by the Dallas Cowboys to the San Francisco 49ers in exchange for an undisclosed high draft choice. That's the end of what I have here in front of me for the news tonight. Deke, one thing that I wanted to mention to you, and that was that your sister-in-law who was in the minor accident down at the Cape remains in very good shape. She's recovering nicely. She's in the hospital in Rockledge, Florida and is going to be released in the next couple of three days. She was able to watch the launch out the window of the hospital room. And for all of you, your families are doing real fine. They enjoyed the launch very much and naturally are very interested as the days of the mission go by.

DMP Thank you, Dick.

ACDR Thanks a lot for a complete report, Dick. Dick, it's also been a real long day as you can tell, and I also want to thank you for all the work you did on getting all these joint activity things going when you came on board.

CC-H Well, thanks, Tom very much. It - today sure turned out right. I was gone all day of course, but when I got in here and saw you guys after this long day were exactly on schedule, I knew it had gone well.

CC-H Apollo, Houston. It has been a long day. We have two reminders and then I'm going to go ahead and sign off and I'll just be standing by for the rest of this ATS pass. We want to make sure we deactivate the secondary evaporator prior to you going to bed. The procedures, page 1-18 of the systems checklist. Also we want to be sure and turn off the secondary loop pump. We'll - we have about - okay we have about 13 or 14 minutes left in this ATS pass and I'll be sitting here standing by but I won't make any more calls. So you guys get squared away and go to bed and we'll see you bright and early in the morning.

CMP Okay Dick. We'll see you in the morning.

CC-H Okay. Good night, all of you.

DMP Okay. Buenas noches.

PAO Apollo control. Ground elapsed time 83 hours, 46 minutes with a good night from cap comm Dick Truly. The Apollo crew settles down for their last night being docked with Soyuz. Tomorrow another busy day, especially for Deke Slayton who will be flying the command module after undocking from Soyuz at ground elapsed time 95 hours and 42 minutes. He will fly the spacecraft around Soyuz to gather data for the ultra-violet absorption experiment and redock again with Soyuz at 96 hours and 20 minutes, whereby the crew - the two vehicles will stay docked for approximately 3 hours and undock for the final maneuver away from Soyuz at 99 hours and 8 minutes. Several joint experiments will be performed tomorrow and the final separation of the two vehicles is scheduled for ground elapsed time of 102 hours and 16 minutes. Flight director Neil Hutchinson polling his flight controllers here and asking and receiving from the flight controllers a GO for the crew to

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go to bed a little early tonight. We'll have loss of signal through the ATS-6 satellite in approximately 10 minutes. We don't expect any more conversation with the crew. However, we'll hold the line up until we have loss of signal with ATS-6.

END OF TAPE

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Time: 19:13 CDT, 83:53 GET

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CC-H Apollo, Houston. We can still hear - see that you're still up because we can see the purge going on in the DM. I just wanted to be sure and remind you to get the furnace started.

ACDR Okay.

PAO Apollo Control. Ground elapsed time 83 hours, 59 minutes. Loss of signal through ATS-6 satellite. The crew apparently bedding down for the night. No further word from Commander, Tom Stafford and fellow crew members, Vance Brand and Deke Slayton, as they conclude their days activities, a very busy schedule of transfers within Soyuz and close out of the Apollo and Soyuz transfers. The final hand shake between Tom Stafford and the Soyuz crew occurring at ground elapsed time of 80 hours, 29 minutes. Hatch closing of Soyuz was 80 hours, 34 minutes - or the start of hatch closing was 80 hours, 34 minutes. Closing of hatch 4 was 80 hours and 40 minutes. Hatch clo-hatch closing of number 3 followed by about 22 seconds. All aboard Apollo looks good according to flight director, Neil Hutchinson. Wake up time tomorrow morning for the Apollo crew to begin the final day with the Soyuz dock configuration will be at 3:20 a.m., central daylight time. Several joint experiments being conducted tomorrow in addition to the ultra-violet absorption experiment, which will have docking module pilot, Deke Slayton, piloting the command module around the Soyuz craft in three separate maneuvers. And final separation from Soyuz coming at ground elapsed time of 102 hours and 16 minutes. Again wake up time will be at 3:20 a.m., central daylight time, Saturday. The crew has been given the go ahead to go to sleep for the night. And at ground elapsed time of 84 hours and 1 minute, this is Apollo Control.

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PAO 84 hours, 33 minutes, ground elapsed time. Apollo and Soyuz presently over Montana, on revolution 50. The change-of-shift briefing with off-going flight director Neil Hutchinson, will probably take place around 8:30. We'll get a definite time for that, as soon as flight director Don Puddy arrives. Tomorrow afternoon at 3:00 p.m. central daylight time in the main auditorium there will be a science briefing, and that will be with Dr. Tom Giuli, ASTP project scientist. Dr. Farouk El Baz, of the Smithsonian Institution; he's principal investigator for the MA 136 Earth Observations and Mapping. Dr. C. Stuart Bowyer; he's principal investigator for the Extreme Ultraviolet and Helium Glow experiments, MA083 and 088, from Berkley, California. Dr. Fredric Voubun from Goddard; he's principal investigator for the MA 128 Geodynamics experiment. And Bob Snyder, Robert Snyder from Marshall, and he'll be talking about the two Marshall experiments on board - the MA010 multipurpose furnace, and the MA011 Electrophoresis experiment. That science briefing again will take place tomorrow afternoon at 3:00 p.m. in the main auditorium. Change-of-shift schedule to occur here very soon at mission control. Our next status report will be at 85:34 ground elapsed time. At 84:35, this is Apollo Control.

END OF TAPE

ASTP (USA) MC318/1
Time: 21:50 CDT, 85:30 GET
7/18/75

PAO 85 hours, 30 minutes ground elapsed time. This is Apollo Control. The two spacecraft presently over western Australia on Soyuz revolution 50. We expect a change of shift briefing with offgoing flight director, Neil Hutchinson, in about 10 minutes in the main auditorium. That change of shift scheduled for 9 p.m. Our next status report will be at 86:30 ground elapsed time. At 85:31 this is Apollo Control.

END OF TAPE

ASTP (USA) MC319/1

Time: 21 55 CDT, 85:35 GET

7/18/75

PAO 85 hours, 35 minutes ground elapsed time. This is Apollo Control. We have a correction to make to the estimated time for this evening's change of shift. Neil Hutchinson has indicated 9:15 will be the time rather than 9 as announced earlier. I repeat, this evening's change of shift with off going flight director, Neil Hutchinson, now scheduled for 9:15 in the main auditorium. At 85:35 ground elapsed time this is Apollo Control.

END OF TAPE

ASTP (USA) MC320/1

Time: 21:09 CDT, 85:49 GET

Date: 7/18/75

PAO 85 hours, 49 minutes ground elapsed time. This is Apollo Control. We've got about 1 minute worth of recorded air to ground, which took place just about 3 minutes ago.

CC-H Apollo, Houston, talking at you through Guam for 3 minutes. Sorry to give you a call but, (garble)

PAO No I haven't.

CC-H Apollo, Houston. Talking at you through Guam for 3 minutes. Sorry to give you a call, but CMC doesn't put the cabin pressure in the O2 flow. We suggest you close your waste stowage vent valve.

CC-H Apollo, Houston. - Once more we see the pressure was coming down pretty low, and the O2 flow up. We recommend checking the waste stowage vent valve closed. Also make sure all the relief valves of the DM are buttoned up real good. We also see that we have left a secondary loop pump on. We recommend turning that off, if we can - and - because it's just going to heat up the cabin. And also if you can get the potable inlet valve closed to save us a little of water, we'd appreciate it tonight.

PAO That's the end of the recording. We'll probably have some more recorded air to ground which we will play back following the press conference. No crew COMM in response to Crippens' configuration changes. They're going to try again in a couple of minutes here as the Apollo goes AOS over Goldstone. About five minutes from now we'll have change-of-shift with Neal Hutchinson from the main auditorium.

END OF TAPE

ASTP (USA) MC321/1
Time: 21:52 CDT, 86:32 GET
7/18/75

PAO 86 hours, 32 minutes ground elapsed time. This is Apollo control. We've got two minutes worth of recorded air to ground to play back now. The air to ground took place during Neil Hutchinson's change of shift briefing. The Apollo is presently in ATS coverage and we will go live air to ground following the replay. Now the recording.

USA Okay, Dick. We're ready to talk to you now.
USA (Garble)
CC-H Apollo, Houston. You're calling?
CMP 1, 2, 3, 4, 5, 5, 4, 3, 2, 1, how do you read?
USA (Garble)
DMP Okay. We called to (garble) and I've got to call back (garble).
CC-H Apollo, Houston. How do you read?
SPKR It's pointed right there where you've got it. (garble)
SPKR (Garble) 126.
SPKR (Garble)
SPKR 276, what's your position?
SPKR 247 to (garble) 18.5.
SPKR (Garble) runway 8. (garble) ship 7-11.
SPKR (Garble)
USA (Russian)
ACDR We hope. We hope it's new era in the history of man.
PAO That's the end of the recorded transmission interference coming from apparently the Atlanta Airport. That's happened before on this mission. 121.75 megahertz apparently the common aircraft frequency. It's also the frequency the Soviets chose for their air to ground communications and the frequency the two spacecraft are using in air to air configuration. According to cap comm Bob Crippin, the crew is probably now back asleep so we'll bring the line down in the event we have another wake up we'll be back on the air with that. At 86:37, our next scheduled status report will be 87:30. At 86:37 ground elapsed time, this is Apollo control.

END OF TAPE

ASTP (USA) MC322/1
Time: 22:58 CDT, 87:38 GET
7/18/75

PAO 87 hours, 38 minutes ground elapsed time. This is Apollo Control. Spacecraft presently over Oregon on revolution 52. Both crews presently asleep, the Apollo crew back to sleep after this evening's inopportuned wake up. The American crew has yet to go to bed on time and has yet to get more than about 6 hours of sleep a night. This evening Neil Hutchinson made the remark that all three Apollo crew members were kind of dragging. They were somewhat concerned that they wouldn't get enough sleep tonight so there was a little bit of hesitation to wake them to make some valve reconfigurations. Pressure in the Apollo is presently quite stable at about 4.96 PSI or 257 inches of mercury, I'm sorry millimeters mercury, metric. We have some changes for television for tomorrow. The Soviets have indicated they have some problems with their camera, TK4 and that will affect scheduled television transmission at 96:15 and 99:20 ground elapsed time. The first one is identified as TV 14.2 in the flight plan and that calls for either Soyuz crew activities or Apollo through the window of the Soyuz. And the second one is identified as TV 15 and that's scheduled to be the Apollo through the Soyuz window, both of those presently being deleted from tomorrow's flight plan due to problems with TK4. Also we have an estimation from FIDO here in mission control as to the geographic locations of tomorrow's undocking, redocking and final undocking. If everything goes according to the flight plan, the first undocking is scheduled for 95:42 ground elapsed time and that will take place at longitude 87:33 west, a latitude of:51 10 south and that's due west of a Chilean town by the name of Puerto Natales. The first undocking will occur over the South Atlantic Ocean. The, the redocking is scheduled for 96:14 through 96:20 ground elapsed time. If the redocking occurs at the head end of that target of opportunity, it will occur in the middle of the Mediterranean Sea at longitude 15 14 east, latitude 35:38 north. If it occurs later than that, at 96:20, it will occur over the Black Sea and anywhere in between it would take place over Greece. The tracking for that redocking includes Athens and Istanbul, so it's entirely possible that the redocking could occur anywhere between the Mediterranean Sea and the Black Sea, over Greece or Turkey. The final undocking, which is scheduled for 99:06, will occur in the mid-Atlantic Ocean at longitude 46:58 west and latitude 19:05 north, and that is just about midway between the Dominican Republic and the Cape Verde Islands. And according to the flight plan, the target of opportunity for that final undocking, the couple of minutes allowed for that, will put the undocking over the middle Atlantic Ocean no matter what time it occurs. So to recap, the first undocking will occur over the south Pacific Ocean, west of the coast of Chile. Redocking will occur anywhere between the Mediterranean Sea and the Black Sea, including a possibility over Greece or Turkey. And the final undocking will occur in the mid-Atlantic Ocean. Our next status report will be about 30 minutes from now. At 87:42 ground elapsed time, this is Apollo Control.

END OF TAPE