

SL-II MC-60/1

Time: 22:50 CDT 14:50 GET

5/25/73

PAO This is Skylab Control at 14 hours 50 minutes ground elapsed time. About a minute 50 seconds until acquisition at the Vanguard tracking ship, which is stationed off the southeast coast of South America. And hopefully we will have a positive statement from the crew that they have been successful in docking after the last procedure that they went through. Failing that, it looks like they go through a standoff maneuver for the evening, and regroup tomorrow for further docking attempts. We'll wait and see what happens here over Vanguard. The Vanguard pass will last almost 8 minutes and the next station after Vanguard will be Vanguard again, an hour and 38 minutes from now. We'll stand by for the first call from spacecraft communicator to the crew of Skylab II. We've had AOS.

CC Skylab Houston through the Vanguard.
How do you read?

CDR We got a hard dock out of it!

CC Way to go.

PAO Considerable applause here on the report of hard docking.

CDR ... we got a tunnel integrity check in the work right now.

CC Hey, way to go. Good show.

CDR You can tell sim sup that we really would sure like to get some ... out of this thing after a while.

CC You can bet your life I will Pete.

CDR We're starting our quiescent switch configuration with the notes that you gave me some where back day before yesterday it seems like.

CC Stand by for one on the quiescent check please, Pete.

CC CDR Houston. We've got 6 minutes left in this pass. We do have about an hour and a half a whole rev before we get Vanguard back again. I do have just a few short notes that might help you go through the checklist for the post docking this evening. Over.

CDR Fire away.

CC Okay, the first of course is get through the post docking work. And I'm not sure what of this you've done on the SEVA checklist on page L/Delta. Then go through the helmets gloves and PGA docking and stowage and that is on pages L/1-13, L/1-14 and 15 in the SEVA section.

CDR Okay.

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CC Okay, following that Pete, go through the presleep activity on SEVA section page L/Foxtrot. And we want to add one additional step in the presleep activity. We need to replace system Alfa LIOH canister, it's in Alfa 4 and stow the used canister back in Alfa 4. Over.

CDR Okay. System A is the top system, right?

CC That's affirmative Pete.

CDR Okay, look we've had our problems and you've had your problems so we'll probably press on to get this thing completely configured according to the checklist that you gave us. We have eaten dinner, so whenever we get this thing done, we'll get to bed and press on first thing in the morning. I would, because of the docking like to go ahead, if we've got a good tunnel and verify all latches. It sounded to me like we got at least 10. But I would like to verify them and then we'll put the hatch back in and go to bed. Do you concur with it?

CC Stand by one.

CC Okay, you tell them you got anything else other than that you want to do tonight? Well he does that as far as the list.

CC CDR Houston. On your question, we do concur that if you have a good hatch integrity check to verify the docking latches. Also one thing we want to be sure to catch is a fuel cell reactants valves to unlatch in a normal. And be advised that we will be going back to CMG control on the SWS. We expect you may get a little bit of movement out of it but we want to get out of TACS only.

CDR Okay sir it is all yours.

CC Roger that.

CC Skylab Houston.

CDR Go ahead Houston.

CC Okay, Pete. One thing in the checklist that we were going to read you and just never had time and got in a hassle. During the quiescent panel check on panel 201, we do not want to inhibit items 9 Alfa Charlie and Delta. Over.

CDR Do not inhibit 9 Alfa Charlie and Delta.

CC That's right Pete. And where we're looking at our time line, we expect bed time will be some where around 18 hours or a little bit sooner and we think that ought to give us plenty of time to call you on this next Vanguard pass next time around, which is about an hour and a half from now, and if you don't have any objec-

The next Vanguard pass is scheduled for 18:00 hours. The Vanguard is being launched from the Marshall Space Flight Center, and is being launched from the Marshall Space Flight Center. They should be arriving within the next 10 minutes, and at 18:00 ground elapsed time, this is Skylab Control.

END OF TAP

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tions we're going to call you at that pass and that will probably be the last AOS today.

CDR Yes sir, we'll see how much we can get done in the next hour and a half.

CC Okay real fine. We're about 30 seconds from LOS now and we'll see you at Vanguard next time around.

CDR Okay, sure glad we practiced those procedures on that probe.

CC Yes sir, looking good.

PAO This is Skylab Control at 15 hours ground elapsed time. We've had loss of signal out of the Vanguard tracking station. It's unlikely we will continue to pick up communications through the ARIA aircraft out east of Vanguard. The attempt at docking, hard docking was indeed successful. The crew believes that 10 of the 12 main latches did fire. They're proceeding with the tunnel pressure integrity check and going through their presleep checklist. There will be one more call in an hour and 30 minutes from now over Vanguard again. Then the crew will go to bed, and proceed with the days work tomorrow. Or going into the workshop and deploying the parasol thermal shield. At 15 hours 2 minutes ground elapsed time, this is Skylab Control.

END OF TAPE

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Time: 23:27 CDT 15:26 GET
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PAO This is Skylab Control 15 hours 26 minutes ground elapse time in the Skylab 2 mission. The Skylab space station, with a successfully docked Command Service Module is presently over the Arabian Peninsula, and an hour and 3 minutes out of Vanguard for the final communications of the evening, which will consist primarily of a status report on the presleep checklist and the final goodnight of the evening. In 10 or 15 minutes, a press conference will be held in the Johnson Space Center news room, small briefing room. Participants being, Mr. Bill Schneider, Skylab Program Director, NASA headquarters, The two Manned Space Flight Center Skylab Program Managers, Kenny Kleinknecht from Johnson Space Center, and Leland Belaw from Marshall Space Flight Center. They should be arriving within the next 10 minutes, and at 15:27 ground elapsed time, this is Skylab Control.

END OF TAPE

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Time: 00:27 a.m. CDT, 16:27 GET

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PAO This is Skylab Control at 5 hours 27 minutes 54 seconds Greenwich mean time. We can hear the horn buzzing in Mission Control to announce acquisition of signal coming up in a little under 2 minutes. We'll have acquisition of signal at Vanguard. This period of pass is approximately 10 minutes and 17 seconds, and after that there will be another opportunity at Ascension at approximately 3 minutes later. At this time it appears that we'll not use that opportunity, that they'll allow the crew to go to sleep immediately after the Vanguard pass. That's still open however, at this time. Among the instructions we passed up - in this coming pass by the CAP COM are instructions to reset the clock that they're using now - the G.E.T. or ground elapsed time clock which will be reading 17:00 hours on the next even hour. They will reset that clock to read 06:00 Greenwich mean time and from now on the mission will be conducted on Greenwich mean time. They also will give instructions to the crew to go to sleep within the next hour before 17:00 GET or 6 o'clock Greenwich mean time and their wake-up will be left open. They can wake up whenever they like. At any case they expect to wake up no earlier than 9 a.m. central daylight time. There will not be a wake-up call given from the ground if present plans are continued. There are two reset maneuvers being scheduled during the night and the crew will be informed about this. The first reset maneuver may take place right immediately after the Vanguard pass at Ascension. That still is - has not been computed completely and they're going to try and compute that in time and let the crew know what - the exact details that reset maneuver will be. We're going to have acquisition of signal very shortly and you can listen in for the - - This is Skylab Control.

CC Skylab, Houston. We're AOS over Vanguard for the next 11 minutes.

PAO We have AOS.

CC 10 minutes for the next 10 minutes.

CC Skylab, Houston. We're AOS over Vanguard for the next 9 minutes. How do you read?

PAO We're trying to acquire the CSM on voice.

CC Skylab, Houston. We're AOS over Vanguard for the next 8 minutes. Over.

CC Skylab, Houston over Vanguard for the next 7 minutes. How do you read? Over.

CDR ...

CC Roger, Pete. You were a little bit garbled there. For your information I've got a few messages for you I'd like to give if you can copy.

PLT Okay, Houston.

CC Roger. Fine job today, Pete. Number 1

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I guess - -

PLT Okay, this is Paul, ready to copy.
CC Number one, I guess we'd like to get
over for G.m.t. so your checklist tomorrow will give you some
good AOS times. We'd like you to set 17:00 GET, or BET rather,
to set time at 06:00 G.m.t.

CC Did you copy, Paul?

CC Skylab, Houston. How do you read?

CC Skylab, Houston. How do you read?

PLT Loud and clear now.

CC Okey doke, we lost you there for awhile.

Did you get the time set at 17:00 BET time will be 06:00 G.m.t.?

PLT No, we didn't get any of your messages
at all, Bob. As soon as you said you had messages for us, you
quit.

CC Okay. Let's try it again. We would like
to give you - set your timer so you can go back to G.m.t. and
at 17:00 elapsed time the time will be 06:00 G.m.t.

PLT Okay.

CC Okey dokey. And we would also like if
you got time meal status for day 1.

CC Okay. We would also like to insure that
VHF A and B are OFF before going to sleep.

PLT Okay, we had them OFF and then I noticed
that I had a barber pole in a power amplifier. And I'm still
not sure what games that those guys can play with it down there
so we left B DUPLEX UP just to make sure he wouldn't be able
to get ahold of it. That's why it's ON now.

CC Okay. Okay, we're taking care of that.
You can turn VHF A and B OFF.

CDR Okay, Bob, and for your information the
CDR ate everything.

CC All right. Okey doke, Roger.

PLT The PLT dipped the first spoonful of
his asparagus was half wood, so I only ate about one-third
of it, mostly the non-woody part.

CC Rog.

PLT The SPT said he ate everything. I'm going
to have eaten everything else, Bob.

CC Okay, very good. Thank you, Paul.

CDR Okay. We have the LiOH canister changed
out. We've done the quiescent switch checklist. We got a
couple of questions for you. What mode would you like to leave
the computer in - you want to leave it in POO and ACCEPT? And
while you're answering that one - let me - we had one on whether
we're supposed to use this max power down. Do you want that
or not?

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CC Stand by 1. We do want the computer left in POO and ACCEPT.

CDR Okay, the computer's in POO and ACCEPT - and on the max power down we've stopped most of that, but there are a couple of things that we have not done. Like, do you want the E/P spectrometer off?

CC Okay, Pete. They really didn't want you to do the max power down, but ...

PLT RCS quad Bravo temperature indicates off=scale high, associated CAUTION. At first we didn't know if it was real or not. We ... 2 - turned those heaters off on Bravo and I assume that it's safe to turn them back on again.

CC Rog. I didn't get the which C&W you had there, Paul.

PLT RCS quad Bravo.

CC Rog.

PLT And the reason we got - the reason we got it was for temperature - that it was high at the time and now it's off=scale high.

CC Rog. Copy.

CC We would like to - -

PLT Go ahead.

CC Okay. We had not planned to give you a call over the ground station, however there's several messages here that we probably ought to talk about. So we are about a minute and one half to LOS and we'll have you again at Ascension and at 16:43. I'll go ahead and hit you with a couple of things here. They would like you to back out of that MAX POWER DOWN if you could and just have the quiescent POWER DOWN.

PLT Okay. I think we can sort that out.

CC Okay dokey.

PLT Yeah, also, I got a popped circuit breaker I want to talk about next time on panel 5. It's last one in the second row, UTILITY. We're R/L station MAIN A.

CC Rog. I understand that one's popped.

CDR Well, we reset it but that's the one that feeds the backup way that we got docked and we think it probably popped when we docked.

CC Okay, but it did reset okay. Is that correct?

PLT Yeah.

CC Can you tell us whether you used A or B system for docking?

CDR Bravo.

CC Rog. Copy, Bravo.

CDR The bottom one in the panel I believe.

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CC Rog. Okay, we're just about to go LOS here. By the way wake-up tomorrow is going to be open-ended. You give us a call.

MS Yea.

CDR Okay, that's good because look we got about another hour at least in here. Man, this place looks like somebody blew through here with a tornado.

CC I think you guys earned a good night's sleep.

CDR We'll be around for at least another hour and a half I think.

CC Rog. We were going to end up doing a CMG reset at the next station pass and that's going to move the vehicle around a little bit.

CDR Well we notice ... up here a little bit.

CC Okay, you have got a slight maneuver going on now, but that's not a reset. We're trying to get back ...

PAO We have LOS. We've have our next acquisition of signal in about 2 minutes and 17 seconds and the crew will be again given further information about maneuvers. We'll be on for about 2 minutes.

END OF TAPE

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CC We have acquisition of telemetry data
and we expect acquisition any moment now.

CC We are AOS over Acension for the 10
minutes for the next 10 minutes.

PLT Okay, we are backing out of this low
power thing.

CC Rog, understand. And I guess you got
your flight plan there with you and it did have exceptions
listed on the quiescent time line. That's in your SEVA
checklist.

CDR - - too but he also had the max power
down and I wasn't sure which one you wanted, so I went into
that and we'll be out in a minute.

CC Roger, understand.

CC Rog, the exceptions are listed in SEVA
L-E.

CDR Right.

CC And we are going to be starting the
CMG reset routine very soon, and it's going to cause the
vehicle to move around, oh a good little bit. This one is
going to be kind of small, it can't be large. For your in-
formation, we are probably going to have to do another one
of these tonight before you wake up. We've been having to
do them about every 4 to 8 hours.

CDR Okay.

CC And Skylab, we would like you to select
secondary package heaters on quad Bravo.

CDR Okay, everything works.

PLT Well we've got the package heater and
we've got the quad heater. Do you want them both to go
to 2 and secondary as appropriate?

CC Pete, that was a little bit garbled
on did you understand it on quad Bravo. We wanted the pack-
age heaters to secondary.

CDR Okay, the package heaters to secondary.

CC Rog.

PLT Okay except thats what's confusing, Crip.
We got two sets of heaters. One for the package and one for
the quad.

CC Rog. It is the package.

PLT Well the backup one for the package
is two and the backup one for the quad is second. So you
want the package heater to 2 and the quad heater left in
primary. Is that right?

CC That is affirmative.

CDR Okay, and by going to the caution
warning, it was a package indication that was tripping it.

CC Rog, understand.

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Time: 00:43 CDT 16:43 GET

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CDR Say, Crip, we did have to dump urine once today, which I believe we reported. The time that we did it all three crew members other wise we have collected all the rest of it onboard.

CC Roger, copy.

CC Skylab Houston. We still have about 6 minutes left in this pass. The next pass is going to be over Guam at 17:27 elapsed time and that will 06:27. I guess our intent now is not to give you a call there.

CDR Okay.

CC Skylab Houston. I guess tomorrow morning, what you can do is on your activation checklist pick out a site to give us a call when you're awake and want to go to work.

CDR Okay.

CC Skylab Houston. We're 1 minute to LOS over Ascension and we'll see you manana. That pass over Guam, in case you need us is at 06:27 GMT.

CDR 06:27, Okay, thank you.

PAO This is Skylab Control. We have loss of signal now at Ascension. The spacecraft is now passing to the northeast over Africa on rev 167. Our next chance for signal will be, as the Capcom indicated, in about 33 minutes and 40 seconds from now at Guam. And we expect to have no communications from the spacecraft at that time unless the crew has something they would like to say to the ground. They did indicate at Vanguard that they did not expect to be asleep by 1:00 a.m. central daylight time as they were to be instructed to go to sleep. They may be up a little later, you may hear from them at Guam. We're not quite certain about that. They are expecting to go to bed as soon as possible and will get up probably get up no earlier than 9:00 a.m. central daylight time tomorrow. They will not be awakened from the ground. They will give a call to the ground from their headsets whenever they are ready to get up and go to work. This is about an hour and a half, the 9:00 a.m. minimum sleep time will make it about an hour and a half later than the flight plan that was set up premission. That's to give them time to get plenty of rest after a very hard day. This is Skylab Control at 5 hours 54 minutes and 50 seconds Greenwich mean time.

END OF TAPE

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Time: 01:25 CDT 17:25 GET

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PAO This is Skylab Control. We again have the horn sounding in Mission Control, 2 minutes coming up for opportunity for acquisition of signal at Guam. The space station at this time is on its 167th revolution on a decending node, passing over Japan. And we're about 1-1/2 minutes from acquisition of signal. This acquisition of signal may not actually indicate any sort of discussion between the crew and ground. We don't know one way or the other whether the crew will still be awake. We will, however, be getting telemetry data. And we may hear something from the crew, since they indicated they may not yet be asleep. We have 1 minute and 20 seconds to acquisition of signal.

PAO Skylab Control. We have 55 seconds to acquisition of signal. The crew is now operating on Greenwich mean time. They have reset their clocks at 1700 hours ground elapsed time to the Greenwich mean time 600 hours. They are now going to be getting all times in Greenwich mean time. At 06:26:49 Greenwich mean time, we have 38 seconds to acquisition of signal.

PAO We have telemetry acquisition of signal. And we should have voice acquisition of signal shortly.

PAO AOS.

MCC Guam tech. Comm Tech, Houston, take net one for a voice check.

MCC Guam, Comm Tech

MCC Roger.

PAO We have indications that the crew is attempting -

MCC Guam station, do you read. Over.

CDR Affirmative Guam. loud and clear.

MCC We have a communications problem between the tracking station and the network, and we'll be back with you as soon as we reestablish.

CC Skylab, Houston. How do you read.

CDR Loud and Clear.

CC Okay. Read you loud and clear.

CDR Hey, we finished chlorinating the water.

P.J. Weitz is sliding into his sleeping bag, along with Pete Conrad and Joe Kerwin. We're just about to bed out.

CC Very good. Anything else we can do for you tonight?

CDR No. We did have a question. We have turned the potable water tank on not for any other reason than it was down to 25 percent. We figure we might as well fill it up.

CC Rog.