

SL-II MC-616/1

Time: 20:41 CDT, 14:01:41 GMT  
6/6/73

PAO This is Skylab Control, Greenwich mean time 1 hour 41 minutes. As the Skylab space station completes it's 337th revolution as it nears the Vanguard tracking station. We expect CapCom Hank Hartsfield to read up the evening news to the crew as the Skylab space station will start its 338th revolution.

CC Skylab, Houston through Vanguard for 11 minutes.

PLT Hi there.

CC And so you don't get confused we goofed up and sent you page 1 of the flight plan twice.

PLT Say again what you did?

CC Okay, we sent page 1 of the flight plan twice.

CC (Garble) Belay that. We didn't send it twice we just put it in the wrong order.

PLT You're forgiven.

PLT Okay, Houston, if you want a status report on where we are, we're about to open the hatch. We figured to have the EVA wrapped up in about an hour and a half.

CC A few people got up on that one.

PLT (Laughter)

MCC I'm glad I stayed awake.

PLT No, seriously, we are at the place on page 3 on the cue card where it says OBM's and LCG knotting, so we're going to pretty much wind it up there. We're going to smoke through the rest of it and see if there's any little details we could catch up on. And go through the EVA plan one more time and eat our ice cream and strawberries.

MCC Sounds like preflight.

PLT Hey, Rusty, I can't find that (garble). I remember seeing it that has the S082 dope on it. Is there anything else of interest on that one?

MCC Stand by.

SCHWEICKART Yes, PJ, it does have some other things on it. Stand by just 1.

PLT Okay.

CDR You know me, Rusty. I like to get things done early and not work late.

CDR It's like the night before Christmas up here. The suits are hung by the fireplace with their LSU's in place just waiting to go.

MCC Okay, Skylab. I'll tell you what. It's not too long a message, but it does have some other things on it that deal with the prep and what we think we'll do here is retransmit it to you here over Ascension which is coming up in about 15 minutes.

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CDR                      What's the message numbers, Rusty?  
SCHWEICKART            It's 1316 Alfa and aside from what we  
already talked up, Pete, most of it deals with Post and I  
think the only thing in (garble) is getting the right film  
magazine out of 141 there.  
CDR                      And I got it (garble) and it's ready to go.

END OF TAPE



SL-II MC-617/1  
Time: 20:47 CDT, 14:01:47 GMT  
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CC Skylab, Houston, we need a few things  
cleaned up on the ATM panel.  
CDR Shoot.  
CC Okay, we need to get the H-alfa  
camera OFF, and close the doors on H alfa 1 and 2, and the  
S056 door CLOSED, and MPC INHIBIT.  
CDR Okay, I was seeing how many of those you'd  
pick up. You did pretty good.  
CC And - -  
CDR I think we've got a bat charge light.  
CC The star trackers kicked off again and  
we're getting some angles for you now. We need to reacquire.  
CDR How come I have a bat charge light,  
Houston?  
CC Okay, star tracker angles are OUTER  
1500, INNER is 0035. And the bat charge light on CBRM 13 is  
no sweat; we just had the heaters on during the dark period  
there.  
CDR Hey, how come the heaters on the  
night side made the bat charge light come on then?  
CC I'll get an answer.  
CDR (garble)  
CC Okay, what happened there was the  
heaters were on during the day light so the bat didn't get  
completely charged.  
CDR Okay. How much of a sweat is it,  
for power tomorrow on EVA?  
CDR Or to put it another way, I'd like a  
briefing. I don't want to be hanging half way out the hatch  
and have PJ start talking about battery chargers and PCG and  
this that and the other thing without understanding whats going  
on. Okay?  
CC Okay. The EVA power down we sent you  
up there - the things we're going to command off, total 1106  
watts and we calculate for the EVA, you'll need 1012 watts  
and that includes the VTR which we're scrubbing, so we  
think we've got a real good margin.  
CDR Okay. I won't scrub the VTR, you  
know. You'd be surprised how much you can see from the inside.  
And I think we'll put the camera up here and PJ can really give  
you a good shot of Joe standing out there because that's the  
wide open from this STS window.  
CC Okay, we - that's a good idea, we got  
the - the VTR schedule in that 1012 watts and we're about  
LOS now, Pete. Vanguard will be coming up in - correction  
Ascension coming up in 56 and that will be your med conference.  
CDR Okay, see you later.

END OF TAPE



SL-II MC-618/1

Time: 20:55 CDT, 14:01:55 GMT

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PAO                      This is Skylab Control, Greenwich mean time one hour 55 minutes. On the previous pass across Vanguard tracking station Science Pilot Kerwin jokingly told the ground we're about ready to open the hatch and we should have the EVA over in about an hour and a half. His comments were addressed to the fact that the crew is that well ahead on the EVA preparations for tomorrow morning. When that remark came down from Skylab space station, several of the flight controllers here in the Mission Control Center stood up and looked around quite surprised. Commander Conrad mentioned that they were ready with their equipment for tomorrow morning. He said the LSU's are by the fireplace ready to go. The LSU is the Life Support Umbilical which is a 60-foot long umbilical cord that the crew - through which the crew will receive their oxygen and water supply for their liquid cooled garment that they wear underneath their Apollo-type pressure suits for the EVA. We now are entering the Ascension tracking station, during which time Skylab Flight Surgeon, Dr. Charles Ross will have the evening medical conference with the crew. At Greenwich mean time one hour 56 minutes, this is Skylab Control.

CC                      Skylab, Houston. We've got about 15 minutes left.

SPT                      Fifteen minutes?

CC                      Roger, we're picking up Canary and Madrid here contiguous.

SPT                      Woo woo. Okay, let's hear the late show.

CC                      Hey, I could give you a little run down on the power here you asked about just before LOS a while ago. The actions you're taking there are essentially cutting all the fans off and get all the lights in OWS, getting the wardroom water heaters off and the ATM C&D coolant loop off and one of the (garble) is POWER DOWN, and that totals out about 415 watts. Now, just prior to the EVA what we're going to do is command OFF the ATM experiment power and get regs three and 15 off which are not outputting anyhow, get your bat heater's off, power down experiment Pointing and the real biggy there is switch the ATM - thermal control system over to survival which saves us 466 watts. And all this comes up to 1100. And then the things that are required for your EVA - all your lights, SUS pumps, tape recorder, and converter, the primary coolant loop, and LSU power comes out to about 887 and then VTR is another 125 for a total of 1,012.

SPT                      Okay, we noticed that little note not to use the food heaters for lunch tomorrow. I'll have you know that we've only been using the food heaters for one food each day and that's the evening frozen the meal.

CC                      Roger, copy.



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Time: 20:55 CDT, 14:01:55 GMT  
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SPT Now, Henry, let me make sure that the way we're figuring on going tomorrow. And I don't know what happened to that message I told Rusty I'm missing. We're going to basically work from three books/pieces of paper. One of them being the EVA cue cards, another being the EVA checklist, and the third being that EVA procedure that was sent up here today and yesterday - part of it was in that stuff yesterday. So I assume that everything you're talking about is included in either checklist changes, cue card changes, or in that procedure, is that right?

CC That's affirmative.

SPT And I remember seeing that message, Rusty and I don't know how it was thrown out of (garble).

CDR Hey, by the way, what are you planner types planning for the day after tomorrow so that we could get this spacecraft put back in the right shape. Don't forget we got tools and you know all that other Mickey Mouse sails are hanging around and man, there's junk all over everywhere, so it's not just the regular EVA post-operation. Copy that?

CC Roger, we've got people looking at that, Pete, and they're - we hope to have a plan.

CDR Okay, it is definitely going to take us - I think we ought to have a 12-man hour three hour each - no excuse me - nine manhour three hour each period in addition to the normal post EVA OPS to put this spacecraft back in shape because we've done torn it apart for the last two days.

CC Roger, we concur.

END OF TAPE



SL-II MC-619/1

Time: 21:04 CDT, 14:02:04 GMT  
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MCC Henry?

MCC Hey, CDR or troops up there. We'd like to say just a word about the lighting related to the power here. If you get out there, especially if Joe gets up around the discone antenna in the evening there when its dark, and decides he does not need the docking lights, PJ could pull the breakers. There are two breakers, they knock out the two different lights that apply to that area, and we could save power and would appreciate it if you don't need those lights, Joe, to let PJ turn them off.

PLT Are the breakers labeled what, docking light?

MCC Stand by, I'll get the specific label on the panel for you.

PLT I got another question while you're doing that. Remember, you said something about a reconfiguration of the STS panel tonight. I see that tomorrow night, but I don't see anything to do tonight yet.

MCC Okay, we got that one. The circuit breakers for the docking light are on panel (garble).

PLT Hello, Houston, you still there?

MCC Roger.

PLT Maybe I'm confused, I have here a message for (garble) I got a message number for you. 1414, now is that to be performed tonight or tomorrow night?

MCC Roger, that has to be done prior to the EVA. That's the one I was talking about earlier, that if you could do, it's a real short one, you might do it tonight.

PLT Oh, okay. You can't ask me tomorrows Flight Plan, and I thought - I locked in right away on presleep plan tomorrow night. (Laughter)

MCC Paul, the - we have two ways to turn off the docking lights - there's a switch on 207 which turns them all off, or on 202 we got the circuit breakers which turn off half the lights, each of them. And I'll tell you right now which one turns off which lights.

SPT He's en route to the MDA, Rusty, he'll call you in a minute.

PLT Okay, Rusty, I see the switch, the docking light switch above the caution warning. Where are the breakers, on what panel?

MCC 202.

PLT Okay, which one?

MCC Okay, it's next to the bottom row and it's docking lights 1 and 2.

PLT Oh, yeah, okay. I'm doing that power down, whatever it is. The three configurations now, Hank.

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Time: 21:04 CDT, 14:02:04 GMT  
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CC	Roger. Copy.
PLT	Okay, that made the AM batteries
6 and 7 start discharging (garble)	
CC	Roger, we're going to take those two BATS
off the line tonight to keep them up.	
PLT	Okay.

END OF TAPE



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Time: 21:10 CDT 14:02:10 GMT

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CC Skylab, Houston. To fill you in a little more on the power thing, the reason that we're doing this REG adjust tonight is - the plan is that if we get into a bind and have to do the pitchup to 45 degrees for thermal reasons, that to handle the loads we're gonna bring the AM BATS on the line, and so we're all set up to do that and command it from the ground.

PLT Okay.

SCHWEICKART And Skylab, Houston here, we - and as I mentioned earlier had not thought about the view out the STS window and if you can get a TV view out there, that would be appreciated. We can pick up the real-time over the states, which will be shortly after sunrise, and we'll give you a GO for use of a VTR if you want to try that also.

CDR I have thought of physically putting the camera there, Rusty, but there's nothing behind your head, and you can see the whole dipole antenna to the base, below the base, and the A-Frame, all through that window, and I'll think you'll have excellent TV of Joe.

MCC Yeah, I think that would be a - very educational here, and I think everyone would look forward to seeing it, if it's no sweat.

CDR Okay, I went back up to look at the sail again. There is no doubt about it that the orange is beginning to fade. I would say that it's a nice orangy-frost-gold now, if that is a good description. And I think I can get the TV up there to where I can show you about a 6 inch strip about 3 inches wide of it. In full zoom, you might think about what that would do for color resolution. And we can work that one later.

MCC Okay, fine. It just so happens I have in my very hand at the moment a couple of samples of the sail material here, which have been exposed to various thermal cycling, and let me ask you, with your description if you might take a gander at the stationary end of the LBNP for color comparison with what you just described to me.

CDR I don't know. It's still much more oranger than that, Rusty. That's a flat gold and this has still got a lot of orange left in it, but it's - it looks faded. That's what it looks like.

MCC Okay, fine, well it's between two of them that we got here in our hands right now. So that does give us some hack on it, thanks.

CDR Okay, give us a little more advance warning if we're going to do a sail deployment, will you?

MCC I keep trying to get some, but I'm not



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having much luck.

CC Skylab, Houston. We're about 30 seconds from LOS. Be coming up on Guam at 40, and I do have some news if you've got time to listen to it there, if not we'll do it in the morning.

PAO This is Skylab Control. Greenwich mean time 2 hours and 15 minutes. The previous several passes had Commander Conrad, Science Pilot Kerwin, and Pilot Paul Weitz discussing preparations for tomorrow's EVA. Commander Conrad passed to the ground a suggestion that they use the TV camera tomorrow by placing it at one of the windows in the STS, the structural transition section, which is between the airlock module and the MDA, the multiple docking adaptor. There are four windows, 8 by 12 inches, oval windows spaced 90 degrees apart, on the outside of the STS. Commander Conrad said that by placing the camera in one of those windows, they might get a good picture of Science Pilot Joe Kerwin as he passes out the equipment for the EVA. At Greenwich mean time 2 hours and 17 minutes, this is Skylab Control, with next acquisition at - over the Guam Island tracking station in 23 minutes.

END OF TAPE



SL-II MC-621/1

Time: 21:38 CDT, 14:02:38 GMT  
6/6/73

PAO This is Skylab Control, Greenwich mean time two hours 38 minutes. We will have acquisition of the Skylab space station over the Guam Island tracking station momentarily. We'll hold the line up for conversations. Probably the last conversation with the crew tonight before they get the good-night call from Cap Com Hank Hartsfield.

CC Skylab, Houston through Guam for 10 minutes.

PLT Hi.

CC PLT?

PLT Yeah?

CC Yeah, hey, PJ let me tell you about one thing here that's come in late and just a warning for tomorrow. If you've got message 1326 around which is the second part of the EVA procedures that is the portion where you're changing out the S082-A film?

PLT Well, we just happen to be there, talking it over. Let me - these message numbers don't really do anything for us, Rusty. We don't file them by message number. We gotta have a subject. Yeah, I see how I missed that other card I missed the - well anyway I made what I thought was most of the changes and threw that other message away. I missed changing the stowage compartment number though.

CC Okay, well the one I'm talking about now, then, Paul is general message EVA additional.

PLT I'm looking at it Rusty, go ahead.

SCHWEICKART Okay. Down there where - after the magazine is all replaced and you're up at panel 130 doing the film checks there, the verifications?

PLT Yeah.

SCHWEICKART Okay, we found out late here, unfortunately, that there may be a relay race logic problem which means that when you - okay you go down about three lines there and you're step and it says main power switch ON?

PLT I'm looking, wait a minute.

SCHWEICKART Okay, it's right after it says EV-3 and you reset the film counter and then it says XUV SPECT MAIN POWER switch ON and then it talks about the power doors.

PLT Yeah, okay I got it. (Garble) are you getting to handling these things? You know, I got a 16-foot message here and I'm trying to read from it. It's hard to find things sometimes. But I've found that place, go ahead.

SCHWEICKART Okay, the problem here is that the door is open - the outer door is open when you start this thing and if you just turn the main power ON then there - it's possible that the logic race will be such that you will not get a film decrement even though everything is okay. And the way to fix that up is just before main power switch ON, go ahead



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and put the power door switch OFF and wait for the doors to close. In other words, wait about 20 seconds and then go right ahead with the main power switch ON et cetera.

PLT                    You're saying then that the power door's power to the doors is independent of on the main power switch position?

SCHWEICKART        Yeah, the main power position will affect both doors, both the outer door, the thermal shield door and the inner door. If you have the main power switch OFF the inner door will remain closed but the thermal shield door will still open and close when you hit the POWER DOOR switch.

PLT                    Okay, so just ahead of main power switch ON you want me to say power doors OFF.

SCHWEICKART        Right and then wait 20 seconds and then press on with it just as written.

PLT                    Okay.

SCHWEICKART        And I hope - I'd like to promise you that that's the last change on anything we got here. And let me try that just before we go to bed here.

PLT                    Okay.

CC                    Skylab, Houston. I've got a few news items here. Are you too busy to listen or rather wait?

PLT                    No, take them up.

CC                    Okay, I'll start off by saying on this day in history, 1944 we landed in Normandy. President Nixon's made several new appointments this week. Former Defense Secretary, Melvin Laird has been made presidential counselor for domestic affairs. Laird said that he will form close ties with the heads of all the federal departments and agencies with members of Congress and with the President. He will have cabinet status and will be a member of the National Security Counsel. General Alexander Hague will retire from the Army to become Nixon's assistant in charge of the White House staff. Hague, as you recall, was former assistant to Henry Kissinger and has been acting as the White House Chief of Staff about one month. Kansas City Police Chief, C.M. Kelley is expected to become permanent Director of the FBI. Kelley's been in his present job since 61 and is considered an innovator of new police methods and techniques. Kelley was an FBI agent for more than 20 years. Ronald Zeigler, White House - -

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CC Kelly has been in his present job since '61 and is considered an innovator of new police methods and techniques. Kelly was an FBI agent for more than 20 years. Ronald Zeigler, White House Press Secretary will become a presidential assistant for communications in addition to keeping his present duties.

MCC Okay, President Nixon will be near the Cape Kennedy area Friday when he delivers a commencement address at Florida Technological University. The new school was founded in 1968 and will be graduating about 700 students. Vice President Spiro Agnew spoke to U.S. Governors at the National Governor's Conference Wednesday at Stateline, Nevada. Agnew told the audience that he is "available for consultation, available for counseling."

MCC In Paris, Henry Kissinger resumed secret talks with Lee Duc Tho, solithuro member from Hanoi. The two representatives are seeking ways to halt continued violations of the cease-fire in Viet Nam. Congress was told by Deputy Defense Secretary, William Clements that the Pentagon will not order any more F-111 fighter bombers when the current production run ends late next year. The Air Force will have 543 of the aircraft by that time.

MCC The Senate Watergate hearings continue to be televised during the daytime hours. Wednesday's hearings featured Hugh Sloan, Jr., former Republican Campaign Treasurer. Sloan discussed the intricate business of receiving and handling huge sums of money during the election campaign. He also expressed his concern that the committee to re-elect the President might be involved in the Watergate affair, but said he was ignored by other officials. A bill has passed the House of Representatives to raise the minimum wage from a \$1.60 an hour to \$2.20 an hour next year. They will also extend coverage to six million more American workers, including household domestic workers. The bill now goes to the Senate.

CC I guess my wife's going to get a raise.

CC Wet weather in the mid-west caused by this Spring's heavy flooding has delayed Spring crop planting. Farmers and federal agricultural officials can't agree however, whether delay will mean higher prices for consumers. Bridgette Bardot announced that she will retire from film making. "I have had enough" she was quoted as saying. Some baseball scores from yesterday, National League - Philadelphia 4, Houston nothing. Dodgers 10, Chicago 1, Montreal 7, Atlanta 6, San Francisco 3, Pittsburg 2, Cinnцинatti 6, New York 5, Saint Louis 5 and San Diego 3. In the American League the scores were 7 to 4, 9 to 2, 8 to 6, 5 to 4, and 5 to 2.

PLT (Garble) report.

SCHWEICKART Good night Henry.



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CC Goodnight Rusty.  
SCHWEICKART Goodnight, Henry.  
PLT Good day you all.  
CDR Thank you, we appreciated that.  
CC Skylab, Houston we're about 30 seconds  
from LOS. We'll see you in the morning.  
CDR Okay, Hank you might make sure you give  
us a holler (garble) we're up by 11:00. What are the State's  
passes (garble)? Have you got them?  
CC You say you want a wake-up call in the  
morning, Pete?  
CDR Well, if you got one around" give us a holler.  
Real good. We appreciate the good (garble) even though we have  
been needing you. We'll give (garble)  
CC And we just need to - one last message here  
we need to INHIBIT the MOMENTUM DUMP on the next rev. We messed  
up the (garble)

PAO This is Skylab Control, Greenwich mean  
time two hours 51 minutes. The crew has closed out their  
14th day in space as the Skylab space station passed over the  
Guam tracking island - tracking station on rev 338. The crew  
closed out the night by getting the daily news report from  
Astronaut Rusty Schweickart and Hank Hartsfield. The daily  
medical bulletin from Dr. Charles Ross, Skylab Flight Surgeon  
is as follows: "The Skylab crew is in good physical condition  
for tomorrow's EVA. The Science Pilot mentioned his complete  
lack of symptoms while conducting vigorous head movements during  
the M131 protocol and the fact that none of the crew has ever  
experienced any motion sickness. The crew's day tomorrow  
begins at 6:00 a.m. Houston time. The EVA preparations will  
run for about 3-1/2 to 4 hours. EVA hatch opening is scheduled  
for 10:37 a.m. central daylight time. A four-hour EVA is  
planned to accomplish five - four different activities: de-  
ployment of the orbital workshop solar array panel, pin-  
ning back the S054 door in the Apollo telescope mount and  
changing out the S082 film magazine. The crew will be wearing  
Apollo-type suits during the extravehicular activity. The  
crew will be attached to the vehicle by means of a 60-foot  
long tether in which lines are provided to carry water, electri-  
cal power and oxygen. During the EVA, Dr. Kerwin, and Com-  
mander Conrad will be hard-suited while inside the vehicle  
in a pressurized portion of the vehicle, Pilot Paul Weitz  
will be soft-suited. He will not be wearing helmet or gloves  
during this exercise. He'll be in the pressurized portion  
of what is referred to as the structural transition section,  
a portion between the multiple docking adapter and the air-  
lock module. Pilot Weitz will monitor systems inside the STS,



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and will also read out procedures to the other two crew members as they perform the EVA. It's a possibility that the TV camera will be put up at one of the windows of the STS. There are four 8 by 12 inch oval windows spaced 90 degrees apart on the outside of the structural transisition section, and it's possible to get - possible they may get a picture of Science Pilot Kerwin exiting the spacecraft. For early space-watchers in the Houston area, tomorrow morning at 5:39 a.m., Skylab space station will pass on a westerly, west to north path over Houston. It will be visible for four minutes and 14 seconds at an elevation of 15 degrees. At Greenwich mean time two hours and 55 minutes, this is Skylab Control.

END OF TAPE



SL-II MC-623/1

Time: 22:05 CDT 14:03:05 GMT

6/6/73

PAO                      This is Skylab Control, Greenwich mean time 3 hours 5 minutes as the spacecraft is on it's 338th revolution of the Earth going over the South Pacific. The crew has been bid good night for the evening by CAPCOM Hank Hartsfield and Astronaut Rusty Schweickart. The crew will arise at 6 a.m. Houston time, Central Daylight time to begin a big day of extravehicular activities. At 3 hours 6 minutes Greenwich mean time this concludes the reports from the mission control center. The next report will be Thursday morning at 6 a.m. Central Daylight time. This is Skylab Control, Greenwich mean time 3 hours, 6 minutes.

END OF TAPE



SL-II MC-624/1

Time: 06:07 CDT, 14:11:01 GMT

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PAO                    This is Skylab Control at 11 hours 1 minute Greenwich mean time. We're standing by for acquisition at - of Skylab at the Honeysuckle Creek station in Australia. Expect to wake up the crew at that time, if they're not already awake. Vehicle status has not changed over night. CBRMs 3 and 15 are still offline and number 17 still has a degraded output 4 to 4-1/2 amps below what's expected. There was no TACS gas usage over night. We'll stand by for the wakeup call.

CC                    Good morning, Skylab. This is Houston. We got you at Honeysuckle for 5 minutes.

SC                    Go ahead, Houston.

CC                    Hi there.

CC                    Skylab, Houston. We're starting our morning chores on commanding. We're going back to solar inertia mode and closing fine sensor doors.

SC                    How did the inertia go last night? (Garble).

CC                    Sorry, Joe. Didn't copy the question.

SC                    I'll catch you later, I'm at a bad VOX.

CC                    Okay, we're about 1 minute from LOS here.

We're going to see you at Hawaii at 11:23.

PAO                    This is Skylab Control; 11 hours and 9 minutes Greenwich mean time. We've had loss of signal at Honeysuckle. The Hawaii station will acquire in about 13-1/2 minutes. Entire day today will be devoted to the extravehicular activity and preparations for that activity and cleanup after the activity. EVA designed to free the solar array wing in an attempt to improve the electrical power situation on Skylab. Two Apollo telescope mount activities may be performed later this evening by Joe Kerwin, the science pilot, and Paul Weitz, the pilot. However, other than that and a short break for housekeeping tasks, the entire day will be devoted to the extravehicular activity. At 11 hours 10 minutes Greenwich mean time, this is Skylab Control.

END OF TAPE



SL-II MC625/1

Time: 06:22 CDT, 14:11:22 GMT

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PAO This is Skylab Control at 11 hours 22 minutes Greenwich mean time. Skylab about to be acquired at the Hawaii Station. Now on its 343rd revolution of the Earth. We'll stand by for acquisition at Hawaii.

CC Hi there, Skylab; Houston. We got you at Hawaii for 7 minutes.

SC Okay.

SC I say, Houston, how did the momentum go last night? We did not inhibit. We found a star instead that looked like we had a good Nz; so I'm interested in how things came out.

CC Joe, that work you did on the startracker fixed us up real fine, and we had no problems with momentum throughout the evening.

SC Okay.

SC Say, Dick, there was a general message sent up during the night or morning sometime, and one of them was on the MOL SIEVE.

CC Roger.

SC The answer is yes.

CC Okay, thank you much.

SC And you might pass on to the ECS guys that I inadvertently turned that thing off yesterday, and that's what brought to mind the whole business about checking out the primary timer. We need all kinds of word on what's supposed to happen when you initially activate a timer. Well, I got to playing with the secondary one yesterday, in the course of putting it back on, and the secondary timer on MOL SIEVE A worked like we always thought it would work. That is, regardless of BED position, as soon as you turn on that timer, it immediately vents A to adsorb and B to desorb.

CC Roger; copy.

SC And we heard they weren't supposed to work like that, but that one does. Even if it's already there, it'll send a squirt of nitrogen through there and just dump it right away. But it works like we thought it didn't anymore.

CC Hey, Paul, are you in secondary now?

SC That's affirm.

CC Okay.

CC Well, PLT, that's all kind of interesting. The EGIL says that it can happen the way you described. It will not - He thinks though it will not necessarily happen that way everytime. So possibly it's been just coincidence so far. At any rate, we are going to schedule a - a good timer checkout when we get to it.

SC Okay. Darn it, let's say that my data, or



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Time: 06:22 CDT, 14:11:22 GMT  
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what I'm basing my remark on is the fact that I turned the MOL SIEVE - I inadvertently turned it off, turned it back on, and heard it dump the gas but not cycle. You know you can hear - that thing gives you a big sigh in your face when it cycles, and I didn't hear it do that. So I opened up the cover and looked, and A was in adsorb, B was in desorb. And I thought I said, "Well, I wonder if I'm double stroking that bed? So I'll hit it one time and see if it cycles." So I turned the timer off, back on, and gave it a shot of air and dumped it, and nothing happened to the BED indicators. They stayed where they were. So I watched it, thinking about what EGIL is going to say, for a minute or two, and then I turned it off and back on, and the same thing happened. It gave it another shot of nitrogen, dumped it, and the BEDS stayed where they were.

CC

Roger; understand.

CC

Skylab, Houston. We're about 30 seconds from LOS. We're going to have a short break. See you at Goldstone at 11:31.

SC

Roger, Dick.

END OF TAPE



SL-II MC626/1

Time: 06:31 CDT, 14:11:31 GMT

6/7/73

CC Hello again, Skylab. This is Houston, and  
we've got you for about the next 8 minutes.

SC Roger.

CC Skylab, Houston. We're going to have a  
short break, and we'll see you at Bermuda.

SC Roger, Richard.

END OF TAPE



SL-II MC-627/1

Time: 06:42 CDT, 14:11:42 GMT

6/7/73

CC Hello again, Skylab. We're at Bermuda  
for the next 6 minutes.  
SC Okay, Houston.  
CC Skylab, Houston. We're one minute to LOS.  
We're going to see you at the Canary Islands at 11:53.  
SC Roger, Dick.  
PAO This is Skylab Control; 11 hours 51 minutes  
Greenwich mean time. We've had loss of signal at Bermuda.  
There was no air-ground conversation during this pass over  
the United States, other than the usual amenities at AOS and  
LOS. We'll pick up Skylab at the Canary Island Station in  
about a minute and a half. We'll continue to stand by for  
that pass.

END OF TAPE



SL-II MC-628/1

Time: 06:52 CDT, 14:11:52 GMT

6/7/73

CC Skylab, Houston. We're AOS at Canary  
for 10 minutes.

SC Roger, Dick. And we just passed over  
an area that's almost like Meteorology for Naval Aviators textbook  
pictures of developing cyclonic depressions. They got a tropical  
depression out here about oh a couple of 100 miles behind us now?

CC Let me check with the weather man, Paul.

CC Skylab, Houston. There is a very large  
low pressure center that you just passed over and it's about  
a 43 degrees north. So it can hardly be a tropical depression,  
but it is - it is a large low area. And that's probably  
what you saw.

SC Yeah. It's loud and clear out there.

CC Skylab, Houston. We're about 1 minute  
from LOS at Canaries. You guys are still on a long descending  
pass down the African Continent. And we're going to see you  
at Honeysuckle at 12:38.

SC Roger, Dick.

PAO This is Skylab Control at 12 hours 4 minutes  
Greenwich mean time. Skylab has passed out of range of the  
Canary Station now. At acquisition of the spacecraft at Canaries,  
the Pilot Paul Weitz reported sighting what he thought was a  
classic textbook developing cyclonic depression just shortly  
before AOS. Checked with the weather man; showed that there  
is a large low pressure center in that area 42 degrees north.  
He described it, however, as a plain old storm, nothing too  
fancy. We'll next acquire Skylab at the Honeysuckle Creek,  
Australia, Station in 33 minutes. It's about 1 minute after  
the crew is scheduled to begin preparations for the upcoming  
Extravehicular Activity. Those preparations scheduled to  
begin at 15 hours, 37 minutes Greenwich mean time, or 7:37  
I beg your pardon, those are scheduled to begin at 12:40  
Greenwich mean time, or 7:40 central daylight time. Hatch  
opening is scheduled at 15 hours, 37 minutes Greenwich mean  
time or 10:37 central daylight time. At 12 hours 6 minutes  
this is Skylab Control.

END OF TAPE



SL-II MC629/1

Time: 07:37 CDT, 14:12:37 GMT

6/7/73

PAO This is Skylab Control 12 hours 37 minutes Greenwich mean time. We're about 1/2 minute away from acquisition at Honeysuckle. EVA preparation is scheduled to start 12 hours 40 minutes. The maroon team has taken over in the Mission Operations Control Room. Flight Director is Milton Windler. CAP COM Astronaut Bob Crippen and the backup crew Commander Astronaut Russell Schweickart is at the CAP COM console also. We'll stand by for the Honeysuckle pass.

CC Good morning, Skylab. We've got you over Honeysuckle for about 8-1/2 minutes.

SC Roger, Houston. I'm ready to go ahead with ATM C&D panel configuration procedure, okay?

CC Stand by.

SC And another thing, I want you to verify on the checklist on page 1.2-3 in the right hand corner that was Xed out before - do you want me to close the OWS panel 2 valve or not?

CC Getting a reading on that, Paul. Hold on.

SC Okay.

CC Okay, that's an affirmative PJ.

SC On which one? On the N2 valve?

CC Yes sir, affirmative on the N2. What was the other one?

SC I'm ready to do a "preps" with ATM C&D panel configuration soon as you guys say it's okay.

CC Okay. You've got a GO on that, Paul.

SC You're easy to get along with this morning. Thank you.

SC Houston, CDR.

CC Go ahead.

SC Oh my God, is this Rusty?

CC That's affirmative.

SC You better give us - what's the earliest time we can start, Rusty?

CC Okay, you've got a sunset at right around 14:10. Hold on, I'll get the exact time.

SC Okay. I'm not sure that we'll make that but there's - we're - try to (garble) things and just kinda how fast it goes, otherwise we'll cool it to the right time.

CC Okay, we understand. And we're sort of semi-prepared for that. Let me give you an exact time here, Pete. Okay, the prior sunset time is about 14:03.

CC And Pete for positive ID purposes we'd like just a word of confirmation that you'll be playing the role of EV1 and that Dr. Kerwin will be playing the role of EV2.

SC Say again Rusty. I was top side.



SL-II MC629/2

Time: 07:37 CDT, 14:12:37 GMT

6/7/73

CC Roger. Since we don't have any red stripes around the arm we're just interested in being positive that the player for EV1 will be the commander and that the player for EV2 will be the SPT. Is that correct?

SC That's Charlie.

CC Charlie Pete Conrad.

SC Okay, let me tell you where we are. I'm doing the visors right now which is out of step and we're right at "strip off the clothes, put on the biomed LCG's GO."

CC Okay, we're right with you on our checklist here, thank you.

PAO This is Skylab Control. Pete Conrad reporting that he is at this time coating the helmet visors with anti-fog compound and he and Joe Kerwin are preparing to put on the biomedical sensors and the liquid cooled garment. To clarify conversation between Conrad and Rusty Schweickart, a few minutes ago there is a possibility the crew will be ready and will open the hatch one sunset early. There is a possibility that hatch opening time will be moved up to 14 hours 3 minutes Greenwich mean time or 9:03 central daylight time. The regular hatch opening time is scheduled for 15:30.

CC Go ahead.

SC Okay, I just want to double check, verify Houston on S054. I can go ahead and turn the main power switch OFF, the door will stay open, right?

CC That's affirmative.

SC Okay.

PAO Skylab Control. We're still holding with the Flight Plan time for hatch opening of 15:37 Gmt or 10:37 central daylight time, with the possibility of a hatch opening at 14:03 Gmt or 9:03 central daylight time.

CC Okay, Skylab we've got about 30 seconds left here at Honeysuckle; going to pick up Hawaii at 58.

SC Say again, Rusty.

CC Right, we've got about 10 seconds here and we're going to pick you up at Hawaii at 58.

SC See you then.

PAO This is Skylab Control at 12 hours 48 minutes Greenwich mean time. We've had loss of signal at Honeysuckle on the 344th revolution. Hawaii will acquire in about 10-1/2 minutes. Crew is in their EVA preparations at this time. Pete Conrad reporting he was coating the visors with the anti-fog compound. He and Joe Kerwin ready to don the biomedical sensors and the liquid cooled garments. Regular hatch open time for this EVA, 15 hours 37 minutes Gmt. That will be at sunset with the possibility that if the crew stays ahead of the time line on the EVA preparations and is



SL-II MC629/3

Time: 07:37 CDT, 14:12:37 GMT

6/7/73

ready to go 1 revolution early or 1 sunset early we would permit them to open the hatch at 14 hours 3 minutes Greenwich mean time. Four hours scheduled for this EVA. At 12 hours 49 minutes this is Skylab Control.

END OF TAPE



SL-II MC-630/1

Time: 07:57 CDT, 14:12:57 GMT

6/7/73

PAO This is Skylab Control; 12 hours 57 minutes Greenwich mean time. We're less than a minute away from acquisition at Hawaii; we'll stand by for that pass.

CC Okay, Skylab. We got you again at Hawaii for about 10 minutes.

SC Okay.

CC Okay, Paul. You might want to expect the PRIMARY COOLANT FLOW CAUTION AND WARNING here. EGIL's going to be powering down the primary system. I beg your pardon, they'll be powering it up, which will give you a C&W there on PRIMARY COOLANT FLOW.

SC Okay.

CC And also, PJ, for you up in your area, we're going to be doing some commanding here. Specifically, we're going to enable AUTO RESET, and we'd like you to stay clear of the DAS. I don't think you have any operations there, but we'd let you know that.

SC Okay.

CC PLT, give a call when you got a second.

SC Calling Rusty.

CC Yeah, okay. We got an indication here, PJ, that the S054 main power and thermal power are still on. Is that the case up there? We're looking at page 1.2-3, where it calls for them both to be off.

SC Yeah, and I finished that (garble). Let me go double check. All right?

CC Okay. Appreciate it.

SC No, both the switches are in the OFF position.

CC Okay, stand by just 1.

CC Okay, we may have a pulser problem there or something, Paul. What we'd like you to do is go ahead and cycle them both to ON, and then both back OFF again.

SC Okay. Task complete.

CC Okay, Paul. Stand by on that. It looks like we may have a problem with the switch; we'll get back with you.

SC Right. I'm going in the workshop.

CC Okay, PLT. We're going to go ahead and command it from the ground here and see whether that gives us positive indication at all.

SC Go ahead.

END OF TAPE