

ASTP (USA) MC208/4  
Time: 14:08 CDT, 54:48 GET  
7/17/75

ACDR Ah huh!  
ACDR Hello!  
ACDR It'll stay open.  
DMP Go ahead - go ahead, Tom.  
USSR (Garble).  
DMP Alexey -  
DMP Just a moment.  
ACDR Fantastic.  
USSR (Garble).  
DMP (How are things going?)  
ACDR (Garble) tell (garble) cut in - (garble) it off, then we'll  
turn it on.  
USSR (Garble)  
DMP Listen?  
CMP (Garble) at 51. You're supposed to go into the Soyuz.  
ACDR Come in here and shake hands.  
DMP (Garble.)  
ACDR (Come here, please.)  
ACDR Looks like they got a few snakes in there, too.  
DMP Yeah.  
ACDR They're almost as bad off as we are (garble).  
ACDR (Alexey. Our viewers are here. Come here, please.)  
USSR (Russian).  
ACDR (Yes. Come here.)  
ACDR Okay. Turn on the camera. Hit the REMOTE.  
DMP Okay.  
ACDR Here.  
DMP Okay.  
SCDR Glad to see you.  
ACDR Glad to see you.  
ACDR Here.  
SCDR Deke.  
USSR (Very - very happy to see you.)  
DMP (This is Soyuz and the United States (Laughter).  
USSR (Laughter)  
ACDR (Valeriy! Come here. Valeriy! How are things?)  
SFE Hello. I (garble) see you.  
ACDR (We too.)  
ACDR Okay.  
CC-H Command module, Houston. We're still not hearing  
Soyuz well. Are you hearing them?  
CMP Loud and clear.

END OF TAPE

ASTP (USA) MC209/1  
Time: 14:19 CDT, 54:59 GET  
7/17/75

USA Okay.  
CC-H Command Module, Houston. We're still not hearing Soyuz well. Are you hearing them?  
ACDR Loud and clear. See us on your picture?  
SPKR Rog.  
USA I hear there --  
CC-H Vance, in order to check the configuration, would you check on page S 1-40.  
CMP Say again.  
CC-H We'd like you to check the configuration as per S - systems checklist 1-40.  
CMP Rog. Which checklist?  
CC-H The command module systems checklist.  
CMP Rog.  
CMP Okay.  
USA Yea.  
USA (Russian) (laugh)  
USSR It's a good picture.  
USA How do you read, Houston ?  
CC-H We read you loud and clear, Tom.  
ACDR Okay. Did you get the picture?  
CC-H Roger. We've got a good picture of the hatch and you people inside there in the tunnel.  
USA (Russian)  
USA (Russian)  
USSR (Russian)  
MS (Garble)  
CC-H Tom, are you ready for the camera up (garble)?  
MCC-H (This is a reading to Alexey Leonov, Valeriy Kubosov, Donald Stafford, Vance Brand, and Don Slayton. In the name of the Soviet people and from myself personally, I am congratulating you with a significant event: the first docking of the Soviet spacecraft, Soyuz 19, and the American spacecraft, Apollo. The whole world with great attention and delight is observing your responsible work that you are performing in carrying out the scientific experiments. The successful docking proved the correctness of the decisions were made which was carried out in joint cooperation and friendship between Soviet and American designers, scientists, and cosmonauts. It could be said that the Soyuz and the Apollo is a prototype of future orbital space stations. Since the time of launch of the first Sputnik and the first flight of man into space, space has become an arena of international cooperation. Detente, positive movement ahead in Soviet-American relations have created the proper conditions for the first international space flight. New possibilities are opening up for fruitful development of scientific cooperation between countries and the peoples in the interest of peace and progress of all humanity.)  
CC-H Apollo, Houston. Go ahead.  
MCC-M (--to you, the courageous conquerors of space, have the great honor of opening a new page in the history of research. I wish you successful completion of the planned program and a safe return to earth. Leonid Brezhnev.)

ASTP (USA) MC209/2  
Time: 14:19 CDT, 54:59 GET  
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USSR (Moscow, this is Soyuz. How do you read?)  
CC-M (I read you well.)  
USSR (We are very grateful and excited by these warm words.  
And we will work even better. Thank you very much.)  
DMP Okay, Tom, I guess - -  
CC-H Apollo, Houston. We are now reading Soyuz.  
ACDR Roger.  
USSR (Everything is nominal. Have you turned off the other  
camera? Once more we would like to thank you for these warm words and  
would like to say in answer, there is so much to say and we have so  
little time.)  
ACDR Houston, Apollo. How do you read?  
CC-H We read you well. Go ahead.  
ACDR Okay. You want Deke to give his headset now to  
Alexey?  
CC-H Tom, we would like everybody around the table and  
the TV set up and then we'd like Deke to give his headset to Alexey.  
USA (Garble)  
CC-H Apollo, Houston. We're getting -

END OF TAPE

ASTP (USA) MC210/1  
Time: 14:29 CDT, 55:09 GET  
7/17/75

CC-H Apollo, Houston. We're getting a pretty good TV picture from the orbital module, but it appears to be upside down. Could you check the shoe(?)?  
ACDR Oh Jesus, I'm sorry.  
ACDR (Garble)  
ACDR Okay.  
DMP Got it?  
ACDR Going to have to turn it to - -  
ACDR Okay, let me see.  
DMP I think we can get it Tom so it'll - -  
ACDR Okay.  
DMP - - look straight (garble).  
ACDR (Garble) for a while (garble).  
ACDR Bo, how's your picture?  
CC-H The picture looks good; if the f-stop is not full opened, please open it.  
ACDR Okay. Turn.  
ACDR (Garble) all right, Bo?  
CC-H Apollo, Houston. It's still a little dark but if that's full opened, that's as good as we can do.  
ACDR Yeah, she's wide open.  
DMP It's wide open.  
CC-H Roger. The only other thing is to verify that the proper lights are on in the Soyuz.  
ACDR Okay.  
ACDR That you - -  
CC-H That looks good now and we're ready for the SC speech, sir.  
ACDR Okay.  
ACDR Okay. We got - Alexey's on Dekes head set. How do you read Houston?  
CC-H We read you loud and clear and we have a good picture.  
ACDR Understand. And Alexey has on Deke's headset.  
CC-H The astronauts are on the line, sir.  
FORD Gentlemen, let me call to express my very great admiration for your hard work, your total dedication in preparing for this first joint flight. All of us here in Washington in the United States, send to you our very warmest congratulations for your successful rendezvous and for your docking and we wish you the very best for a successful completion of the remainder of your mission. Your flight is a momentous event and a very great achievement not only for the 5 of you, but also for the thousands of American and Soviet scientists and technicians who have worked together for three years to insure the success of this very historic and very successful experiment in international cooperation. It's taken us many years to open this door to useful cooperation in space between our two countries. And I'm confident that the day is not far off when space missions made possible by this first joint effort will be more or less commonplace. We all look forward to your safe return and we follow it with great interest, the success

ASSTP (USA) MC210/2  
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so far, and we look forward to talking with you on earth again when you do end your flight. General Stafford, Tom, now that you've had an opportunity to test the new docking system, do you think it will be suitable for future international manned space flight?

ACDR Yes sir, Mr. President, I sure do. Out of the three docking systems I've used, this was the smoothest one so far. It worked beautifully.

FORD About 3-1/2 hours ago, I sat here in the Oval Office and watched the docking procedure. It looked awfully simple from here, I'm sure it wasn't that simple for the 5 of you. Let me if I might - -

ACDR (Garble) it's a lot - -

FORD Yes, Tom. Let me say a word or two if I might to Colonel Leonov. The docking was a critical phase of the joint mission. Colonel, could you describe it, and would you describe the reaction of the crews on meeting in space after such a long preparation?

SCDR Mr. President, I'm sure that our joint flight is the beginning for future considerations in space between our countries. Thank you very much for very nice words to us. We'll do our best.

FORD Colonel, I think you and the other 4 have done very, very well so far and may I congratulate you and your associates on this great achievement. Now, Dr. Slayton, Deke, you've had a very, very long record of distinguished service preparing other astronaut crews for various space missions, and we're extremely pleased to see you on the crew of the first international manned space flight. As the world's oldest space rookie, do you have any advice for young people who hope to fly on future space missions?

FORD Deke, did you have a chance to hear my question?

DMP No, sir, Mr. President, unfortunately.

FORD Can I repeat it and - -

ACDR - waiting so long.

DMP Well, Tom just repeated it for me sir. Yes, I have a lot of advice for young people but I guess probably one of the most important bits is to, number one, decide what you really want to do and then secondly, never give up until you've done it.

FORD Well, you're a darn good example, Deke, of never giving up and continuing and I know it is a great feeling of - of success from your point of view to have made this flight - your 4 associates.

DMP Yes, sir.

FORD Vance Brand, I notice that you're still in the Apollo and holding the fort there. It's been my observation that the crews on both sides have worked very hard to learn either Russian on the one hand or English on the other. Has this training period which is so important stood the test in the complicated procedures that all of you must execute in this very delicate mission.

CMP Mr. President, I believe it really has. I think in a way our project in - in particular, the training that we've undergone has been a - sort of a model for a future, similar projects. I

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think it's been a real pleasant experience to work on learning Russian and to be able to work with the cosmonauts and I think we'll have some ideas that would probably help people in the future on similar tasks.

FORD                   Thank you very much, Vance. I might like to say a word or two to Valeriy Kubasov, the other member of the cosmonaut crew. I might say to him as well as Colonel Leonov, I remember both of you on that enjoyable Saturday last September when both crews visited the White House and joined me in a picnic over in Virginia. We flew from the White House over to this picnic just across the river. We had some crab specialities that I enjoyed and I think you did. I'm sure you're having a little different menu, somewhat different food on this occasion. What are you having over there out in space?

SFE                    We are having good spacefood. There are some Russian - -  
ACDR                   Food (laughter).  
SFE                    - - food, some Russian (laughter) juice, some coffee  
and a lot of butter. No (garble).

FORD                   Well, let me say in conclusion, we look forward to your safe return. It's been a tremendous demonstration of cooperation between our scientists, our technicians and of course, our astronauts and their counterparts the cosmonauts from the Soviet Union. I congratulate everybody connected with the flight, and particularly the 5 of you for setting this outstanding example of what we have to do in the future to make it a better world. And may I say in signing off here's to a soft landing.

SFE                    Thank you, very much.  
ACDR                   Thank you, Mr. President. It's certainly been an honor to serve the country and work here.  
FORD                   We'll see you when you get back.  
ACDR                   Yes sir.

END OF TAPE

ASTP (USA) MC211/1  
Time: 14:46 CDT, 55:26 GET  
7/17/75

SPKR (Garble.)  
SCDR (Garble.)  
ACDR (Garble.)  
ACDR Houston, Apollo.  
CC-H Roger, Apollo. We're standing by for your presentation.  
ACDR Okay. You ready for the presentation now and how much more time we have on ATS, Bo?  
CC-H We still have about 10 minutes.  
ACDR (Russian)  
ACDR Deke, come on down.  
DMP Okay.  
ACDR We got 10 minutes here and we'll do it real fast.  
ACDR (Garble.)  
ACDR (Garble.) Okay, Deke. Put on your helmet.  
ACDR Turn on the TV.  
DMP Ready?  
SPKR (Garble.) (Laughter.)  
ACDR (Alexey, Valeriy. Permit me, in the name of my government and the American people, to present you with 5 flags for your government and the people of the Soviet Union. May our joint work in space serve for the benefit of all countries and peoples on the Earth.)  
SCDR Your people (garble).  
ACDR Thank you very much, Alexey, thank you.  
(Thank you very much.)  
CC-H Apollo commander, Houston. We're still not hearing the Soyuz crew well. Could you ask them to check their FM configuration?  
ACDR Roger. (Houston, says that - that they still don't hear you very well. Check you VHF FM.)  
ACDR Valeriy will check it right now, Bo.  
CC-H Roger.  
SFE This is Soyuz, how do you read me?  
CC-H Roger. That time we read them - read them well. It seems that they are (garble).  
SPKR (Now we read them well.)  
ACDR Did you read Alexey then?  
CC-H Roger. We did read them then.  
ACDR (Russian)  
DMP If we're suppose to be on VOX, Bo, I think that's part of the problem. We're slipping or else not (garble).  
ACDR (A very long day.)  
SFE A very long day.  
ACDR A very long day.  
CC-H Roger, (garble) we agree. It seems they aren't coming through on VOX very well, and Deke, if you can move over to your right a little bit, it's - if - we'd have you better in the picture.  
DMP Well, I'll try that.

ASTP (USA) MC211/2  
Time: 14:46 CDT, 55:26 GET  
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USSR (Garble.)  
ACDR Okay. Valeriy's checked the VHF FM and he said  
it's ON. (Please speak in your headsets.)  
SFE Houston, do you read me?  
CC-H We read (we heard you well now.)  
SCDR Just now (garble) gave us mental plaques from  
American people and their - from American government. Thank you very  
much for these very expensive presents. Soyuz crewmen are (garble) to  
Tom Stafford from our people and from our government.  
ACDR (Thank you Alexey)  
SCDR A very long day. About 2-1/2 years.  
MS (Laughter).  
CC-H Deke, Houston. We don't know if you can get to it  
but if you can would you check that the camera's in AVERAGE and not  
PEAK?  
DMP Okay.  
USA (Garble).  
DMP Cameras in AVERAGE not PEAK, okay, (garble).  
ACDR I can try it, but (garble) on those things.  
ACDR There it is.  
DMP Now you got two choices there Bo. Which one you  
like?  
ACDR Looks much better on the monitor.  
DMP - - looks better.  
ACDR Is that better, Bo?  
CC-H Roger that looks like a better picture now, Apollo.  
CMP Okay.  
ACDR - pulls it in?  
DMP (Garble) what I just put it to.  
MS (Laughter).  
ACDR Yeah. Look at this. The monitor's -  
ACDR (Garble) the gifts. Put the Amer - -  
DMP Got that done.  
DMP We get a UN flag.  
ACDR - - s to w flag from GSB.  
CMP Okay  
ACDR (Garble).  
SPKR (Garble)  
CC-H Apollo, Houston. There are 2 minutes until LOS.  
We will see you at Vanguard at 1:38 transfer time.  
ACDR Roger. 1:38 transfer time.  
DMP Hey, what do we do next year, Kubasov?

END OF TAPE



ASTP (USA) MC212/1  
Time: 14:56 CDT, 55:36 GET  
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CC-H - - until LOS. We will see you at Vanguard, at  
1:38 transfer time.  
CMP Roger. 1:38 transfer time.  
DMP Okay. What do we do next here Kubasov?  
ACDR What time do you have?  
DMP I got 30:26.  
ACDR Yes. That's what - -  
DMP I'll tell you Tom I think -  
DMP Help connect those connectors here one at a time.  
USSR (Russian)  
CC-H Command module, Houston. We would like you to turn  
the three TV power switches on panel 181 off.  
CMP Roger. 181, three TV power switches off.  
PAO This is Apollo Control. Loss of signal through ATS-6  
satellite. We - we'll be coming up on tracking ship Vanguard in about  
10 minutes and Merritt Island Launch Area in 35 minutes from now. Fur-  
ther television on the next revolution as the joint activities continue,  
and the first visit. We'll return for Vanguard in approximately 10 min-  
utes. This is Apollo Control at 55:38 ground elapsed time.

END OF TAPE

ASTP (USA) MC213/1  
Time: 15:09 CDT, 55:49 GET  
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CC-H Apollo, Houston. Through Vanguard for 7 minutes.  
ACDR Okay, Bo. We have the cables hooked up between the  
two spacecraft. How do you read?  
CC-H We read you well, Tom.  
ACDR And I'm now putting on the speaker (garble)  
CC-H I understand you're putting on the speaker box.  
MCC-H What's the problem?  
ACDR Still reading us, Bo?  
CC-H Roger. We still read you well.  
USA (Garble)  
ACDR Yeah, Vance. I read you.  
ACDR Bo, how do you read through this speaker box here  
in the Soyuz?  
CC-H Tom, we read - -  
ACDR (Garble) speaker box, over.  
CC-H - -we read the speaker box although not quite as  
clear as the headset.  
ACDR Okay, I can read you loud and clear through the  
speaker box, Bo. Thank you.  
USA Yeah, I'll catch you.  
USA Right, Vance.  
CC-H Command Module, Houston. Over.  
CMP Go ahead, Houston.  
CC-H We'd just like to remind you about the maneuver at  
55:52 so that we can have that when we come back into coverage.  
CMP I understand, Bo.  
SFE (Garble)  
CMP (All right, Valeriy. Very good.)  
CMP (Apollo Soyuz) (Laughter) (Soyuz, this is Apollo.  
Alexey, are you ready for oriental orien -  
CC-H Apollo, Houston. We're going to over the hill here  
at Vanguard. We'll see you at MILA at 17.  
CMP - - inertial orientation?  
SCDR Ready for orientation.  
CMP (All right. We will be doing inertial orientation.)  
PAO This is Apollo Control. Loss of signal through  
tracking ship Vanguard. 17 minutes to next station. Merritt Island  
launch area in about 17 minutes. During the first transfer of Stafford  
and Slayton into the Soyuz, the crews began exchange of ceremonial  
items. The exchanges will be spread out over the different visits, but  
among the items to be exchanged will be the certificates of docking  
for the FAI which is the Paris-based Federation Aeronautique Inter-  
national, which organization homologates all aviation and space flight  
records. Flags of different sizes from both countries to be exchanged.  
Plaques, which have been divided into 2 halves, each carried on the  
respective spacecraft to be rejoined in space for return to earth.

ASTP (USA) MC213/2  
Time: 15:09 CDT, 55:49 GET  
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Tree seeds from each country which will be exchanged and a United Nations flag which was launched with Soyuz and to be returned on Apollo and exchange of 3 copies from each side of the space agreement. We'll return in about 15 minutes with Merritt Island launch area and AST-6 satellite coverage. This is Apollo Control at 55:58 ground elapsed time.

END OF TAPE

ASTP (USA) MC214/1  
Time: 15:32 CDT, 56:12 GET  
7/17/75

PAO This is Apollo Control at 56:12 ground elapsed time. Acquisition in 50 seconds through Merritt Island Launch Area tracking station with almost continuous coverage across ATS-6 as the crew of Apollo and Soyuz continue this first transfer.

CC-H - - (garble) through MILA for 5 minutes and a half.  
ACDR Roger.  
ACDR How do you read, Bo?  
CC-H Tom, we read you rather weakly.  
ACDR (Garble)  
ACDR How do you read now?  
CC-H We read you better now.  
ACDR We have the speaker box in here. I'm going to turn  
the speaker box off as long as we're in Soyuz.  
CC-H Roger, we understand.  
USSR He is eating his spinach.  
SPKR (Garble)  
CC-H We mark 24. Roger.  
USSR We mark 24. And we're turning the (garble).  
USA (Garble) 220.  
CC-H (Garble) We've got the crew coming up at (garble).  
ACDR Okay, Vance. How do you read?  
ACDR Okay.  
SPKR (Garble)  
CC-H Okay Vance, select flight (garble).  
CMP (Garble)  
CC-H Okay. You've already done that.  
CMP Yeah.  
ACDR Okay. The step's already completed.  
CC-H Apollo, Houston. We will go LOS in less than a  
minute. We'll see you on ATS at 56:20.  
ACDR Roger.  
ACDR What's that in phase elapsed time and transfer time, Bo?  
CC-H I'll have to look that up, Tom. Hold on just a sec-  
ond.  
CC-H Right now, our (garble) time is 205 and we'll have  
ATS at about 2:10.  
ACDR ATS in 5 minutes. Thank you Bo.  
CC-H Apollo, Houston. How do you read? Command module?  
CMP Loud and clear, Bo. And we've shift - switched off  
the VHF/FM for awhile.  
CC-H Okay. And we would like you to turn those three  
TV power switches back on, on panel 181.  
CMP Stand by.

END OF TAPE

ASTP (USA) MC215/1

Time: 15:42 CDT, 56:22 GET

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CMP Okay, Bo, you've got VHF back too.  
CC-H Roger. And we're getting a TV picture. We see you,  
Vance.  
CMP Roger.  
USSR (Russian)  
USSR (We're trying to get a hold of these joint documents.)  
SCDR Tom Stafford and Deke Slayton, I'm sending best wishes  
to you.  
ACDR (The command module also sends its greetings.)  
CC-H Apollo commander, Houston.  
ACDR Go ahead, Bo.  
CC-H Sir, we'd like you to verify that you turned the  
speaker box in the Soyuz off.  
ACDR That's affirmative. I did.  
CC-H Roger. We're getting a squeal and we thought that  
maybe you hadn't had a chance to do so.  
ACDR No, I rechecked it. (garble)  
CC-H Understand.  
DMP The speaker box is on in the docking module.  
DMP Don't you want that one off, Bo? (garble)  
CC-H Roger. Why don't you try turning that one off, Deke  
for us, please? Or whoever has a chance.  
DMP Okay. It's off. That any better?  
ACDR How do you read now, Bo?  
CC-H That's much better.  
ACDR Yeah. I can tell. We don't have a squeal now.  
DMP Okay.  
CC-H And Deke, while you're up there, if you could  
shift that camera on 874 so it looks down the hatch, we'd get a better  
picture. I'm sorry.  
DMP Okay. I thought it was. I'll check it.  
DMP Okay. How does that look to you?  
DMP I can't tell much in this monitor, Bo. So, as I said,  
check it and let me know when you like it.  
CC-H Roger, Deke. Hold on just a second, please.  
DMP Okay.  
CC-H That's good, Deke.  
DMP Okay.  
USSR (Garble)  
MCC-M (Garble)  
ACDR Houston, Apollo.  
CC-H Apollo, Houston. Go ahead.

END OF TAPE

ASTP (USA) MC216/1  
Time: 15:47 CDT, 56:32 GET  
7/17/75

ACDR Houston, Apollo.  
CC-H Apollo, Houston. Go ahead.  
ACDR Yea Bo, are you getting the picture in the orbit -  
in the Soyuz down in the orbital module? All I can get on my monitor  
is just the screen. It's very brightened out.  
CC-H Right now, we're looking at one down through the  
hatch. And we see that quite well.  
CC-H The other camera we were getting a picture on, but  
you're often in front of it. But that's just supposed to be a stowage  
location for that camera.  
ACDR Okay.  
ACDR Okay, we got the DAC TV all set up.  
CC-H Roger. You're getting ready to sign the certificate.  
ACDR Roger.  
CC-H Tom, we're looking over your left shoulder now and we  
see the table quite well. So if you're getting ready to sign the  
certificate that should be a good shot.  
ACDR Okay.  
PAO This is Apollo Control. We're estimating a press  
conference at 4:30 central daylight time in the JSC auditorium with  
the ASTP program manager, Chet Lee, and ASTP technical director for the  
United States, Glynn Lunney. This will be at 4:30 p.m. central daylight  
time in the JSC auditorium.  
CC-H Joint crew, something seems to be floating up the  
docking module tunnel. It's probably the certificate tube.  
ACDR We'll recover the tube in a minute, Bo.  
USSR (Garble)  
CC-H Roger. I just didn't want you to be looking for it.  
ACDR Thanks. Appreciate that.  
CC-H Command Module, Houston. Could we have you open  
the lens on your TV camera wide open.  
CMP Roger. Can do, Bo.

END OF TAPE

ASTP (USA) MC217/1  
Time: 16:02 CDT, 56:42 GET  
Date: 7/17/75

CMP                   It's all the way open, Bo. And it has been.  
CC-H                   Thank you.  
ACDR                   Houston, Apollo.  
CC-H                   Apollo, Houston, go ahead.  
ACDR                   Yes, Bo, do you have the camera in the orbital module?  
CC-H                   I don't know, sir, we're looking at the one down  
the tunnel at you.  
ACDR                   Let's take a look at the one in the orbital module.  
CC-H                   Okay, we'll ask INCO. - - Roger, we see the one,  
in the orbital module, and we see - the - tubes. That's "soup" on the  
right - "soaks" on the right hand side?  
ACDR                   In English you spell that COCKA.  
ACDR                   What is the joke?

END OF TAPE

ASTP (USA) MC218/1  
Time: 16:12 CDT, 56:52 GET  
7/17/75

CC-H Apollo commander, Houston.  
ACDR Go ahead.  
CC-H We're getting a good picture here, and we're wondering what you're eating down there. If you have a chance maybe you could tell us a little about it.  
ACDR Sure thing. Right now, I've just finished some strawberries, reconstituted. And Deke and I - Deke's eating some, too. We're getting ready to eat some borsht, that you can see here.  
CC-H Roger.  
ACDR In the tube.  
CC-H We see the tube.  
ACDR After that, I'm going to have turkey with cranapple-cranberry sauce. Also, I have apple juice here, which they made a little joke and had a different label on the other side of it. This is (unusual juice.) It's apple juice.  
DMP My menu is borsht, (garble), roquefort cheese, apple cranberries, and apple and plum sticks and sweet apple juice. You can tell I like apples.  
CC-H Roger on the apple juice.  
ACDR And this is (Russian) cheese. Known as (Russian).  
CC-H Amber cheese?  
ACDR And here is Russian bread, known as (Russian) little bitty small miniature loaves of it.  
ACDR (Russian)  
ACDR Turkey, which is (Russian)  
CC-H We can read it.  
ACDR Houston, how much more time do you have on ATS?  
CC-H We have about 10 minutes left on ATS.  
ACDR Okay.  
ACDR I guess you're getting the good picture from the docking module looking down here in the tunnel, right ?  
CC-H We're getting both the picture through the tunnel and the one over your left shoulder.  
ACDR Okay.  
ACDR Here's cranberry dressing.  
ACDR You always have to have cranberries with turkey, right?  
CC-H Say again, Tom. I understood the cranberries. I didn't understand the last.  
ACDR Usually have that with turkey.  
CC-H Roger.  
CC-H Command module, Houston. Over.  
CMP Go ahead, Bo.  
CC-H Vance, we'd like you to check that the command module camera is on AVERAGE, and we'd like you to turn up the lights a bit, in the command module, if you can conveniently do so.  
CMP Okay. I'll see what we can do.

END OF TAPE



ASTP (USA) MC219/1  
Time: 16:22 CDT, 57:02 GET  
7/17/75

CC-H Apollo Commander, Houston. We've lost TV, we're going to get a little bit of data here before we go over the hill.

CC-H Command Module, Houston. Over.

CC-H Command Module, Houston.

CC-H Command Module, Houston.

CMP Go ahead, Bo.

CC-H Roger. We're getting ready to go LOS here ATS and we would like you to turn the three TV camera power switches on 181 to OFF.

CC-H And Apollo, Houston. There's approximately 1 minute until LOS, we'll see you at Vanguard at 57:21, that's about 3 hours plus 10 minutes transfer time.

CMP Okay Bo. You said about two words and then you cut out completely. Sorry, I didn't get your information.

CC-H Understand. I'll say them again. We would like the three TV power switches on panel 181 turned OFF. And we're going LOS, we'll see you at Vanguard at 57:21.

CMP Okay, three switches coming OFF.

CC-H Roger.

CC-H Apollo Commander, Houston. If you read do not do the TV camera relocation in step 38.

ACDR All right Bo, we sure will.

CMP And we got one of our standards alarms, Bo.

CC-H We copy.

PAO This is Apollo Control. LOS of signal through ATS 6 satellite. Press conference coming up in the next few minutes with ASTP Program Manager, Chet Lee, and ASTP Technical Director for the United States, Glynn Lunney, who are now enroute from mission control to the JSC auditorium. The press conference will start as soon as they arrive. We have AOS in 10 minutes at tracking ship, Vanguard, however this will be taped for delayed playback at the conclusion of the Lee and Lunney press conference. This is Apollo Control at 57:11.

END OF TAPE

ASTP (USA) MISSION MC220/1  
Time: 17:11 CDT, 57:51 GET  
Date: 7/17/75

PAO - -our conversation in progress. Roll tape.  
CC-H Apollo Commandor, Houston, through Vanguard for  
6 minutes.  
ACDR Okay, Bo.  
CC-H And could you tell us how you are progressing on your  
activities?  
ACDR We're still eating.  
CC-H Understand.  
ACDR We're running a little late, but we'll get back with  
it shortly.  
CMP And Houston, command module.  
CC-H Go ahead command module.  
CMP Have you guys worked on a computer patch for this com-  
puter - alarm triggering thing?  
CC-H Roger. We have one, and we're going to give it to you  
just before sleep, so that you can put it in then.  
CMP Okay, it's - triggering quite often now.  
CC-H Understand.  
CC-H Command module, Houston. Have you been getting any  
more cryo pressure alarms?  
CMP Negative. No more of those, Bo.  
CC-H Thank you.  
CC-H Apollo - Command module Houston. Could we have you  
set a RESET on the computer please?  
CMP Please repeat.  
CC-H We'd like you to punch ERROR RESET on the computer.  
CC-H Apollo, Houston. There is one minute until LOS. Next  
AOS is Goldstone, at 57:39 for 3:29 transfer time.  
CMP Roger. See you then.  
CC-H Command module, Houston, through Goldstone. How do  
you read?  
CC-H Command module Houston through Goldstone for 6 and  
1/2 minutes. How do you read?  
CMP Read you fine. You were cut out by - ground traffic.  
Please go ahead.  
CC-H Roger. I've got a note here about this ICDU fail  
indication. Are you ready to copy?  
CMP Ready to copy.  
CC-H First just the prose. We want to inhibit the CMC  
generation of an ISS warning for ICDU fail indication.  
CMP Roger. Stand by. I've got to turn the HF OFF to copy.  
CC-H Roger.  
USA Okay, push it out a couple of times.  
USA No problem, no problem. The only difficulty (garble)  
CC-H And vance, while you're down there on set 181, we need

ASTP (USA) MISSION MC220/2  
Time: 17:11 CDT, 57:51 GET  
Date: 7/17/75

those CD camera switches back on.

USA (garble)

CMP Ready to copy.

CC-H Roger. We wish to inhibit the CMC generation of an ISS warning for ICDU fail indication. And this will keep false ICDU failures from turning on the caution and warning tone during the sleep period.

CC-H The jet ON monitor EMP, can't - can be run in a normal fashion and we'll still set the ISS warning for jet problems. To perform the inhibit, execute the following. Are you ready to copy?

CMP Ready.

CC-H VERB 25, NOUN 7 ENTER, 1323 ENTER, 4 ENTER, and 1 ENTER. And you can do this any time you wish, now while we have data over Goldstone.

CMP Okay, I understand that - when I load that - that the EMP will go into effect. The ICDU EMP. And this is VERB 25, NOUN 7 ENTER, 1323 ENTER, 4 ENTER, 1 ENTER.

CC-H Right on the numbers.

CMP Okay, I'll do it right now.

CC-H We're watching.

CMP Okay, it's complete. I still have an ISS light on.

I guess - -

CC-H I'll check on that with guidance.

CC-H Apollo Commander go ahead.

ACDR Yea, for one thing Bo, you might have them check the frequency of tower. It's coming through loud and clear.

CC-H Understand.

ACDR I'll take that back, Bo. It is ground control not tower.

CC-H Roger, understand. Los Angelos grounds.

CMP And, where do we stand on the RCS curve?

CC-H Say again, Vance, you were cut out. I'm sorry.

CMP Roger, where do we stand on the RCS curve?

CC-H Let me check. Vance I understand we're very close to nominal, very very close.

CC-H And Command Module, Houston. We request that you terminate battery Alfa charge.

CMP Okay, terminate BAT Alfa charge.

CC-H Apollo, Houston. There's one minute until LOS. We'll see you on ATS at 57:52.

CMP Roger. Understand.

CC-H And that's about 3 hours, and 41 minutes, transfer time.

CMP Okay, and we have most of the presleep checklist done in advance. Did you want any memory dump tonight, Bo?

CC-H Roger, understand that you've got most of the pre-sleep finished.

CMP Roger. One item on it is the E memory dump, and I wondered if you'd like to have that?

ASTP (USA) MISSION MC220/3  
Time: 17:11 CDT 57:51 GET  
Date: 7/17/75

CC-H Say that again Vance.  
CMP Page 149 - - E memory dump, purge 74.  
CC-H Okay, pointing (garble)  
CC-H Apollo Commander, Houston. It looks as if Moscow  
was trying to call Soyuz through the ship.  
ACDR (garble)  
CC-H Apollo commander, Houston. We see you around the  
table there through ATS.  
CC-H Docking module pilot, Houston.  
DMP Yea, go ahead, Bo.  
CC-H Deke, looks like to save a little time, we could do  
steps 49, and 55 together, when you get to that point.  
DMP Okay.  
CC-H 49 is the hatches 3, and 4, integrity check, and 55  
is the multi furnace - multipurpose furnace operation.  
CC-H And command module, Houston.  
CMP Go ahead.  
CC-H We'd like - you perhaps to do step number 59, which -  
57 - which is the getting the hoses ready, when they're coming back.  
ACDR Sure, no sweat.  
DMP Okay, that's 49, and 55, you said?  
CC-H That's right Deke, steps 49, and 55 together when  
you get to them.  
DMP Okay.  
USA Okay, Houston, Apollo. Got a P52 option 3 here  
for you a few minutes early, if you're watching.  
CC-H Negative. We are not watching at this time.  
USA Go ahead.  
USSR Will you take the (garble) module (garble)

END OF TAPE

ASTP (USA) MC221/1  
Time: 17:20 CDT, 58:00 GET  
7/17/75

DMP Bo, the DP.  
CC-H Go ahead, sir.  
DMP I presume at this stage in the game here you're interested in expediting this ASAP, is that correct?  
CC-H Roger, that's affirmative.  
DMP Okay.  
DMP That influences my activities here in the furnace once they get started.  
CMP Houston, command module.  
CC-H Go ahead command module.  
CMP Okay, here's the results, P52: stars 44 and 35,  
NOUN 5 all balls, NOUN 93, X00019, Y00019, Z minus 0000.  
CC-H I understand. Stars 44 and 35, all balls, plus 19, plus 42 and all balls.  
CMP Roger, except Y is minus 42.  
CC-H I understand, minus 42.  
CC-H Command module, Houston. How do you read?  
CC-H Command module, Houston. Do you have a torquing time for us?  
CMP CM, please repeat.  
CC-H Roger, we would like a torquing time if you have it.  
CMP Okay, you're - you're echoing. I understand you want some kind of time. Let's see, we've been into the transfer 3. Stand by.  
CC-H Command module, Houston. We would like a torque time.  
CMP Oh, okay. Roger, 3:52:50.  
CMP Roger.  
CC-H Command module, Houston. We never did get a good time back from you on the transfer time. We have coming up on 3:54:05 now.  
CMP Yes, you're right on. I've got 3:54:15, MARK.  
CC-H Thank you.  
ACDR Bo, I'll be working on the multinfurnace per - multi-purpose furnace shortly and getting closed out.  
CC-H Roger, I understand.  
ACDR And we've already added the nitrogen.  
CC-H I understand, you've added the nitrogen. How much?  
DMP 20 millimeters.  
ACDR 20 millimeters.  
CC-H I understand. 2 zero millimeters.  
DMP We're up to 537 total.  
CC-H I understand. 537 total.  
PAO This is Apollo Control. In view of the press conference with the project directors, just completed a half hour or so ago, there will not be a change of shift briefing with flight director Pete Frank.  
CC-H Docking module pilot, Houston.

ASTP (USA) MC221/2  
Time: 17:20 CDT, 58:00 GET  
7/17/75

DMP Go ahead, Bo.  
CC-H We've been having some problems with the gas in the furnace and we'd like to tell you that it's important that you tighten those valves tight when you do the procedure and see if that might help our leak.  
DMP Okay.  
CMP Houston, Apollo.  
CC-H Go ahead.  
CMP Okay, per presleep checklist I'm to report to you  
BAT seat bolts are 37, pyro BAT A volts are 37 and pyro BAT B volts are 37.  
CC-H I understand, all 37.  
CMP And, happy to give you a VERB 74 if you want it -  
for the procedure.

END OF TAPE

ASTP (USA) MC222/1  
Time: 17:31 CDT, 58:11 GET  
7/17/75

CMP - - and happy to give you a VERB 74 if you wanted further procedure.  
CC-H We're not quite ready for that. We'll give you a call, sir.  
USA Right.  
CC-H We see the coming in signs.  
MCC-H Off hand it's Bo, on the close out.  
CC-H Welcome aboard Soyuz. We see that too. And the sketches. It's upside down right now, but I guess in space it doesn't make any difference. We read "oh brave new world that has such people in it." It's still a little upside down. Do you see that sketch of Deke with his cowboy hat? And Tom next.  
ACDR This is a little of Alexey's art.  
CC-H Roger.  
ACDR Here's another one.  
CC-H I guess that's Vance and you, Tom, huh?  
ACDR Yes. It says (Russian) Soyuz.  
CC-H We see the (garble) again.  
ACDR Okay. We're located - this camera down on TA2.  
ACDR Houston, Apollo.  
CC-H Apollo Commander, Houston. Go ahead.  
ACDR Okay, Bo. I'm getting this located on TA2 on step 42.  
CC-H Understand. On step 42.  
ACDR I know I'm supposed to look up at the hatch but it looks like it's going to be difficult from this angle. I don't know, even though we did it before over in Baykonur.  
CC-H It looks pretty good. We can see the hatch.  
CC-H Docking module pilot, Houston. When you moved the  
TV - -

END OF TAPE

ASTP (USA) MC223/1  
Time: 17:41 CDT, 58:21 GET  
7/17/75

CC-H Docking module pilot, Houston. When you move the  
TV camera to H73 verify that it is in AVERAGE.  
DMP Okay Bo.  
DMP Bo, you want that to say on the back to be AVERAGE,  
right?  
CC-H Roger. Deke we would like it in AVERAGE.  
CC-H Docking Modu-Module Pilot, Houston.  
DMP Okay Bo.  
CC-H When you did the experiment active - putting it into  
the furnace, did you do steps 8, 9, and 10 on page 7.2 of the docking module?  
DMP Yes, affirmative.  
CC-H Understand.  
ACDR (Russian)

END OF TAPE



ASTP (USA) MC224/1  
Time: 17:51 CDT, 58:31 GET  
7/17/75

DMP                   Okay, Bo. If you read, we're both back in the DM and  
the hatch is going LOCKED.  
CC-H                   Roger. Understand, you're in the DM.  
DMP                   (Russian)  
DMP                   (Russian)  
SFE                   Number 4 closed.  
ACDR                   (Russian)  
SFE                   Apollo, Soyuz. When you ready for (garble) preparation?  
DMP                   (Russian)  
SFE                   ('m monitoring.  
DMP                   (Russian)  
CC-H                   Command module, Houston. Over.  
CMP                   Go ahead.  
CC-H                   On panel 181, we would like the three TV camera power  
switches turned OFF.  
CMP                   Okay, Bo. That's the end of our TV for tonight, huh?  
CC-H                   Roger. They've been getting a little warm, and so  
we've been turning them off here when we don't have TV.  
CMP                   Okay.  
ACDR                   (Russian)  
SCDR                   Roger, Tom.  
CC-H                   Apollo, Houston. There are 2 minutes until ATS LOS.  
We'll see you at Erroral at 58:44. That's about 4 minutes from now.  
USA                   (garble)

END OF TAPE