

ALSEP Configuration A-2 Two-Man Deployment Task Sequence

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The Apollo Lunar Surface Experiments Package (ALSEP) Configuration A-2 two-man deployment sequence, based on current Apollo 15 flight configurations and design is incorporated in this ATM.

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ALSEP Configuration A-2 Two-Man Deployment Task Sequence

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The following assumptions and conditions are applicable to this deployment sequence:

- 1) The sequence is for ALSEP Flight 5, Configuration A-2.
- 2) The sequence is for the two-man deployment planned for ALSEP.
- 3) The Lunar Module (LM) is oriented on the lunar surface with the Scientific Equipment Bay (SEQ) facing southeast.
- 4) The commander and the LM Pilot maintain constant voice contact while deploying ALSEP.
- 5) The voice link between the command/LM pilot and Mission Control Center (MCC), during ALSEP deployment, is through the LM directly to MCC.
- 6) The Commander and the LM Pilot are pressurized to 3.75 psi in Extravehicular Mobility Units (EMU) during ALSEP deployment.
- 7) The times in hours, minutes, and seconds are based on part-task tests conducted with Crew Engineering mock-ups.

This ATM includes both a condensed timeline and detailed timeline deployment sequence. The condensed timeline is essentially a major task flow analysis along a time base, showing the major points of interaction between the two crewmen. The detailed timeline lists, in sequence of performance, each of the steps required to carry out the main tasks identified in the condensed timeline. It is in the detailed timeline that the crew/equipment interfaces are revealed. Both timelines present the CDR's and the LMP's tasks side-by-side so that no confusion will exist as to which crewman is doing what, or how the two cooperate in the operations on the lunar surface.

ALSEP A-2 CONDENSED TIMELINE

Task			Task		m:
No.	CDR	Time	No.	LMP	Time
				ALSEP OFFLOAD	
			P1.0	Open SEQ Bay Doors	00:00:00
			P2.0	Offload ALSEP Pkgs.	00:01:00
C1.0	LRV STOWAGE	00:04:00	12.0	Officad ALDEF Tkgs.	00.01.00
C1.0	ERV STOWAGE	00.740.00	P3.0	Fuel RTG	00:07:00
			P4.0	Configure ALSEP for	00:12:30
			1 1.0	Traverse	00.12.30
			P5.0	Close SEQ Bay Doors	00:15:00
			1 3. 0	LRV STOWAGE ASSIST	00.13.00
C2.0	Offload LR ³ (300)	00:22:00	P6.0	Stow Quad III Equip.	00:22:00
02.0	Officad ER (500)	00.22.00	10.0	Pallet on LRV	00.22.00
			P7.0	Stow LR ³ (300) on LRV	00:24:00
			11.0	Rt. Seat	00.21.00
C3.0	FLAG DEPLOY AND	00:29:30	P8.0	S-BAND SWITCH AND	00:29: 3 0
	COMM. CHECK	00.27.30	10.0	FLAG DEPLOY	00.27.30
C4.0	ALSEP TRAVERSE	00:40:30		ALSEP TRAVERSE	
01,0	(ON LRV)	00.10.50	P9.0	Walk to ALSEP Site	00:40:30
	(OII DIV)		P10.0	Position ALSEP at Site	00:52:00
	ALSEP SYSTEM			ALSEP SYSTEM	
	INTERCONNECT			INTERCONNECT	
C5.0	Offload HTC	00:53:00			
C6.0	Offload HFE	00:54:45			
C7.0	Connect HFE to C/S	00:56:10			
			P11.0	Remove Subpallet	00:56:30
			P12.0	Remove SIDE	00:57:30
			P13.0	Connect SIDE to C/S	00:59:15
C8.0	Connect RTG to C/S	01:00:15			
C9.0	Carry HFE Subpallet to	01:03:00			
	Deployment Site				
	HFE SITE SET-UP			PSE DEPLOYMENT	
C10.0	Offload HFE	01:06:30	P14.0	Deploy PSE Stool	01:06:30
C11.0	Deploy 1st Probe	01:08:30			
			P15.0	Deploy PSE	01:11:30

ALSEP A-2 CONDENSED TIMELINE (continued)

Task No.	CDR	Time	Task No.	LMP	Time
C12.0	DRILL SET-UP	01:15:00	P16.0	Level & Align PSE	01:15:00
			P17.0	SWS DEPLOYMENT	01:16:00
			P18.0	LSM OFFLOAD	01:20:00
				CENTRAL STATION DEPLOYMENT	
			P19.0	Erect Sunshield	01:23:00
	HFE PROBE #1		11/.0	Dieet buildinera	01.23.00
C13.0	Implant Drill Stem #1	01:28:30			
013.0	Implant Dilli Stolli #1	01.20.30	P20.0	Erect Antenna	01:30:30
			P21.0	Level & Align Antenna	01:33:00
				SIDE DEPLOYMENT	01.33.00
3			P22.0	Implace SIDE	01:40:30
C14.0	Insert Probe #1	01:42:30			0 1. 10.00
			P23.0	Deploy CCIG	01:46:30
	HOLE #2 SET-UP			Lopus, Cold	0 4.1 20.0 0
C15.0	Transfer Equipment	01:47:00	P24.0	Level & Align SIDE	01:47:00
C16.0	Deploy 2nd Probe	01:50:00	_	6	
	HFE PROBE #2			LSM DEPLOYMENT	
C17.0	Implant Drill Stem #2	01:53:00	P25.0	Implace LSM	01:53:00
			P26.0	Level & Align LSM	01:54:45
			P27.0	C/S ACTIVATION	01:57:00
			P28.0	LRRR DEPLOYMENT	02:01:00
			P29.0	ALSEP PHOTOGRAPHY	02:05:00
C18.0	Insert Probe #2	02:07:00			
C19.0	Remove HFE Electronics Pkg.	02:10:30			
C20.0	CORE SAMPLING	02:13:00			

Task No.	Commander Activity	AL P/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
ហ		00:00:00 00:00:01 00:00:02 00:00:03 00:00:04 00:00:05 00:00:06 00:00:07 00:00:08 00:00:09 00:00:10 00:00:11 00:00:12 00:00:13 00:00:14 00:00:15 00:00:16 00:00:17 00:00:18 00:00:19 00:00:20 00:00:21 00:00:22 00:00:23 00:00:24 00:00:25 00:00:26 00:00:27 00:00:28 00:00:29 00:00:30	ALSEP OFFLOAD Open SEQ Bay Doors		P1.0

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
6		00:00:30 00:00:31 00:00:32 00:00:34 00:00:35 00:00:36 00:00:37 00:00:38 00:00:39 00:00:40 00:00:41 00:00:42 00:00:43 00:00:44 00:00:45 00:00:46 00:00:47 00:00:48 00:00:49 00:00:50 00:00:51 00:00:52 00:00:53 00:00:54 00:00:55 00:00:55 00:00:56 00:00:57 00:00:58 00:00:59 00:01:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
7		00:01:00 00:01:01 00:01:02 00:01:03 00:01:04 00:01:05 00:01:06 00:01:07 00:01:08 00:01:10 00:01:11 00:01:12 00:01:13 00:01:14 00:01:15 00:01:16 00:01:17 00:01:18 00:01:19 00:01:20 00:01:21 00:01:22 00:01:23 00:01:24 00:01:25 00:01:25 00:01:26 00:01:27 00:01:28 00:01:29 00: 01:30	OFFLOAD ALSEP PKGS. Retrieve Pkg #1 Deployment Lanyard . Walk 10' from LM with Lanyard . Pull Lanyard white lower section, extend boom assy, Remove Pkg #1 from SEQ Bay.	P2.0 P2.1

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
∞		00:01:30 00:01:31 00:01:32 00:01:33 00:01:34 00:01:35 00:01:36 00:01:37 00:01:38 00:01:39 00:01:40 00:01:41 00:01:42 00:01:43 00:01:44 00:01:45 00:01:45 00:01:46 00:01:47 00:01:48 00:01:49 00:01:50 00:01:51 00:01:51 00:01:52 00:01:53 00:01:54 00:01:55 00:01:55 00:01:56 00:01:57 00:01:58 00:01:59 00:02:00	. Hold Lanyard white lower section taut, ratchet Pkg. #1 to lunar surface. . Discard Pkg #1 Deployment Lanyard . Walk to Pkg. #1	P2.4 P2.5 P2.6

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
9		00:02 :00 00:02 :01 00:02 :02 00:02 :03 00:02 :04 00:02 :05 00:02 :06 00:02 :07 00:02 :08 00:02 :09 00:02 :10 00:02 :11 00:02 :12 00:02 :13 00:02 :14	. Disconnect quick release latch from carry handle & discard.	P2.7
		00:02 :15 00:02 :16 00:02 :17 00:02 :18 00:02 :19 00:02 :20 00:02 :21	. Pull velcroed pullring from carry handle, pull lanyard, separate Pkg. #1 from boom, Discard lanyard/boom attachment assy.	P2.8
		00:02 :22 00:02 :23 00:02 :24 00:02 :25 00:02 :26 00:02 :27 00:02 :28 00:02 :29 00:02 :30	. Lift Pkg #1, carry to a point 5' from astronaut protection door, & lower to lunar surface.	P2.9
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:02:30 00:02:31 00:02:32 00:02:33 00:02:34 00:02:35 00:02:36 00:02:37 00:02:38 00:02:39	. Retrieve Pkg #2 Deployment Lanyard	P2.10
10	,	00: 02:40 00: 02:41 00: 02:42 00: 02:43 00: 02:44 00: 02:45 00: 02:46	. Walk 10' from LM with Lanyard	P2.11
		00: 02:47 00: 02:48 00: 02:49 00: 02:50 00: 02:51 00: 02:52 00: 02:53 00: 02:54 00: 02:55 00: 02:56 00: 02:57 00: 02:58 00: 02:59 00:03:00	. Pull Lanyard white lower section, Extend boom assy, Remove Pkg. #2 from SEQ Bay.	P2. 12

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
11		00:03:00 00:03:01 00:03:02 00:03:03 00:03:04 00:03:05 00:03:06 00:03:07 00:03:08 00:03:10 00:03:11 00:03:12 00:03:13 00:03:14 00:03:15 00:03:16 00:03:17 00:03:18 00:03:19 00:03:20 00:03:21 00:03:22 00:03:23 00:03:24 00:03:25 00:03:25 00:03:26 00:03:27 00:03:28 00:03:29 00:03:29	 Hold Lanyard white lower section taut, ratchet pkg. #2 to Lunar Surface. Discard Pkg. #2 Deployment Lanyard. Walk to Pkg. #2. 	P2.13

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
12		00:03:30 00:03:31 00:03:32 00:03:33 00:03:34 00:03:35 00:03:38 00:03:39 00:03:40 00:03:41 00:03:42 00:03:44 00:03:45 00:03:46 00:03:47 00:03:46 00:03:47 00:03:48 00:03:50 00:03:51 00:03:50 00:03:51 00:03:55 00:03:55 00:03:55 00:03:55 00:03:57 00:03:58 00:03:59 00:04:00	. Disconnect quick release latch from carry handle & discard. Pull velcroed pull-ring from carry handle pull Lanyard, separate Pkg. #2 from boom, discard Lanyard/boom assy.	P2.16

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C1.0	LRV STOWAGE	00:04:00 00:04:01 00:04:02	. Retrieve Pkg #1 Deployment Lanyard	P2.18
13		00:04:03 00:04:04 00:04:05 00:04:06 00:04:07 00:04:08 00:04:09 00:04:10 00:04:11 00:04:12 00:04:13 00:04:14	. Pull Pkg #1 Lanyard striped section to restow boom assy.	P2.19
		00:04:15 00:04:16 00:04:17 00:04:18 00:04:19 00:04:20 00:04:21 00:04:22 00:04:23 00:04:24	. Walk to SEQ Bay with Pkg #1 Lanyard & stow in Compartment I.	P2.20
		00: 04:25 00: 04:26 00: 04:27	. Retrieve Pkg #2 Deployment Lanyard	P2.21
		00: 04:28 00: 04:29 00:04:30	. Pull Pkg #2 Lanyard striped section to restow boom assy.	P2.22

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
14		00:04:30 00:04:31 00:04:32 00:04:33 00:04:34 00:04:35 00:04:36 00:04:37 00:04:38 00:04:39 00:04:40 00:04:41 00:04:42 00:04:42 00:04:44 00:04:45 00:04:45 00:04:47 00:04:48 00:04:49 00:04:50 00:04:51 00:04:52 00:04:53 00:04:54 00:04:55 00:04:55 00:04:55 00:04:57 00:04:58 00:04:59 00:05:00	 Walk to SEQ Bay with Pkg #2 Lanyard & stow in Compartment II. Lift Pkg #2, carry to a point next to astronaut protection door, & lower to lunar surface. 	P2.23

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
15		00:05:00 00:05:01 00:05:02 00:05:03 00:05:04 00:05:05 00:05:06 00:05:07 00:05:08 00:05:09 00:05:10 00:05:11 00:05:12 00:05:13 00:05:14 00:05:15 00:05:16 00:05:17 00:05:18 00:05:19 00:05:20 00:05:21 00:05:22 00:05:23 00:05:24 00:05:25 00:05:26 00:05:27 00:05:28 00:05:29 00:05:29 00:05:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
16		00:05:30 00:05:31 00:05:32 00:05:33 00:05:34 00:05:35 00:05:38 00:05:39 00:05:40 00:05:41 00:05:42 00:05:43 00:05:44 00:05:45 00:05:46 00:05:47 00:05:48 00:05:49 00:05:50 00:05:50 00:05:51 00:05:52 00:05:53 00:05:55 00:05:55 00:05:55 00:05:57 00:05:58 00:05:59 00:05:59	Remove 4 tool restraining pull pins and discard. Remove 2 Universal Handling Tools (UHT)	P2.26

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:06:00 00:06:01 00:06:02 00:06:03 00:06:04	. Engage first UHT in Pkg. #2 temporary stowage socket.	P2.27
		00:06:05 00:06:06 00:06:07 00:06:08 00:06:09	. Walk to Pkg #1	P2.28
17		00:06:10 00:06:11 00:06:12 00:06:13 00:06:14	. Engage second UHT in Pkg #1 temporary stowage socket.	P2.29
		00:06:15 00:06:16 00:06:17 00:06:18 00:06:19	. Return to Pkg #2	P2.30
		00: 06:20 00: 06:21 00: 06:22 00: 06:23 00: 06:24	. Remove tool bracket assy & discard.	P2.31
		00: 06:25 00: 06:26 00: 06:27 00: 06:28 00: 06:29 00:06:30	. Remove first antenna mast/carry bar section.	P2.32
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:06:30 00:06:31 00:06:32 00:06:33 00:06:34	. Remove second antenna mast/carry bar section.	P2.33
		00:06:35 00:06:36 00:06:37 00:06:38 00:06:39 00:06:40	. Mate two antenna mast/carry bar sections.	P2.34
18	j.	00:06:41 00:06:42 00:06:43 00:06:44	. Walk to Pkg #1.	P2.35
		00:06:44 00:06:45 00:06:46 00:06:47 00:06:48 00:06:49 00:06:50 00:06:51 00:06:52 00:06:53 00:06:54	. Install carry bar in fitting on Pkg. #1.	P2.36
		00: 06:55 00: 06:56 00: 06:57 00: 06:58 00: 06:59 00:07:00	. Walk to Fuel Cask,	P2.37
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
19		00:07:00 00:07:01 00:07:02 00:07:03 00:07:04 00:07:05 00:07:06 00:07:07 00:07:08 00:07:10 00:07:11 00:07:12 00:07:12 00:07:14 00:07:15 00:07:16 00:07:17 00:07:18 00:07:19 00:07:20 00:07:21 00:07:22 00:07:23 00:07:24 00:07:25 00:07:26 00:07:27 00:07:28 00:07:29 00:07:29	FUEL RTG Retrieve cask lanyard. . Walk 11 feet from cask. . Pull cask lanyard to rotate levers and remove spline.	P3. 0 P3. 1

Task Commander Time No. Activity (Cumulative	LM Pilot	Task No.
00:07:30 00:07:31 00:07:32 00:07:33 00:07:34 00:07:35 00:07:37 00:07:38 00:07:39 00:07:40 00:07:41 00:07:42 00:07:44 00:07:45 00:07:46 00:07:47 00:07:48 00:07:49 00:07:50 00:07:51 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55 00:07:55	. Continue pulling cask lanyard until cask is rotated to correct fuel transfer attitude. . Discard cask lanyard. . Walk to Pkg #2.	P3.4 P3.5

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:08 :00 00:08 :01 00:08 :02 00:08 :03 00:08 :04 00:08 :05 00:08 :06 00:08 :07 00:08 :08 00:08 :09	. Remove Dome Removal Tool (DRT)	P3.7
21		00:08 :10 00:08 :11 00:08 :12 00:08 :13 00:08 :14 00:08 :15 00:08 :16 00:08 :17 00:08 :18 00:08 :19 00:08 :20	. Walk to Fuel Cask,	P3.8
		00:08 :21 00:08 :22 00:08 :23 00:08 :24 00:08 :25 00:08 :26 00:08 :27 00:08 :27 00:08 :28 00:08 :29 00:08 :30	. Mate DRT with dome locking mechanism, pull outward, press inward and rotate dome locking mechanism 150° clockwise.	P3.9

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
22		00:08:30 00:08:31 00:08:32 00:08:33 00:08:34 00:08:35 00:08:36 00:08:37 00:08:38 00:08:39 00:08:40 00:08:41 00:08:42 00:08:42 00:08:43 00:08:44 00:08:45 00:08:46 00:08:47 00:08:48 00:08:49 00:08:50 00:08:51 00:08:52 00:08:53 00:08:54 00:08:55 00:08:55 00:08:57 00:08:58 00:08:59 00:09:00	. Remove dome, read tempilabel, report, and discard DRT/Dome. . Walk to Pkg #2.	P3.10

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:09:00 00:09:01 00:09:02 00:09:03 00:09:04 00:09:05 00:09:06 00:09:07 00:09:08 00:09:09	. Remove Fuel Transfer Tool (FTT).	P3. 12
23		00: 09:10 00: 09:11 00: 09:12 00: 09:13 00: 09:14 00: 09:15 00: 09:16 00: 09:17 00: 09:18 00: 09:19	. Tip Pkg #2 position for fueling.	P3.13
		00: 09:20 00: 09:21 00: 09:22 00: 09:23 00: 09:24 00: 09:25 00: 09:26 00: 09:27 00: 09:28 00: 09:29 00:09:30	. Walk to Fuel Cask.	P3.14

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:09:30 00:09:31 00:09:32 00:09:33 00:09:34 00:09:35 00:09:36 00:09:37 00:09:38 00:09:39	. Insert FTT fingers into Fuel Capsule Head.	P3.15
24		00: 09:39 00: 09:40 00: 09:41 00: 09:42 00: 09:43 00: 09:44 00: 09:45 00: 09:46 00: 09:47 00: 09:49 00: 09:50 00: 09:51 00: 09:52 00: 09:52 00: 09:53 00: 09:54 00: 09:55 00: 09:55 00: 09:56 00: 09:58 00: 09:59 00:10:00	. Engage FTT fingers in Fuel Capsule Head by rotating knob clockwise.	P3.16
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:10:00 00:10:01 00:10:02 00:10:03 00:10:04 00:10:05 00:10:05 00:10:06 00:10:07 00:10:08 00:10:09	. Withdraw fuel capsule from fuel cask.	P3.17
25		00:10:10 00:10:11 00:10:12 00:10:13 00:10:14 00:10:15 00:10:16 00:10:17 00:10:18 00:10:19	. Walk to Pkg #2.	P3. 18
		00: 10:20 00: 10:21 00: 10:22 00: 10:23 00: 10:24 00: 10:25 00: 10:26 00: 10:27 00: 10:28 00: 10:29	. Lower fuel capsule into RTG.	P3.19
		00:10 :30	. Report - RTG Fueled.	P3.20

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
26		00:10:30 00:10:31 00:10:32 00:10:33 00:10:34 00:10:35 00:10:36 00:10:37 00:10:38 00:10:39 00:10:40 00:10:41 00:10:42 00:10:43 00:10:44 00:10:45 00:10:46 00:10:47 00:10:48 00:10:49 00:10:50 00:10:51 00:10:52 00:10:53 00:10:54 00:10:55 00:10:56 00:10:57 00:10:58 00:10:59 00:11:00		

Task	Commander	ALSEP/A-2 Time (Cumulative)	LM Pilot	Task
No.	Activity		Activity	No.
27		00:11:00 00:11:01 00:11:02 00:11:03 00:11:04 00:11:05 00:11:06 00:11:07 00:11:08 00:11:09 00:11:10 00:11:11 00:11:12 00:11:13 00:11:14 00:11:15 00:11:16 00:11:17 00:11:18 00:11:19 00:11:20 00:11:21 00:11:22 00:11:23 00:11:24 00:11:25 00:11:26 00:11:27 00:11:28 00:11:29 00:11:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
28		00:11:30 00:11:31 00:11:32 00:11:33 00:11:34 00:11:35 00:11:36 00:11:37 00:11:38 00:11:39 00:11:40 00:11:41 00:11:42 00:11:42 00:11:44 00:11:45 00:11:45 00:11:46 00:11:47 00:11:48 00:11:49 00:11:50 00:11:50 00:11:51 00:11:52 00:11:53 00:11:54 00:11:55 00:11:56 00:11:57 00:11:58 00:11:59 00:12:00	. Disengage FTT from fuel capsule by counter - rotation of knob, read tempilabel and report. . Discard FTT.	P3.22
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
29		00:12 :00 00:12 :01 00:12 :02 00:12 :03 00:12 :04 00:12 :05 00:12 :06 00:12 :07 00:12 :08 00:12 :09 00:12 :10 00:12 :11 00:12 :12 00:12 :13 00:12 :14 00:12 :15 00:12 :16 00:12 :17 00:12 :18 00:12 :19 00:12 :20 00:12 :21 00:12 :22 00:12 :23 00:12 :24 00:12 :25 00:12 :25 00:12 :26 00:12 :27 00:12 :28 00:12 :29 00:12 :29	CONFIGURE ALSEP FOR TRAVERSE	P4.0

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:12:30 00:12:31 00:12:32 00:12:33 00:12:34 00:12:35 00:12:36 00:12:37 00:12:38	. Use stowed UHT as handle to rotate Pkg. #2.	P4. 1
30		00: 12:39 00: 12:40 00: 12:41 00: 12:42 00: 12:43 00: 12:44 00: 12:45 00: 12:46 00: 12:47 00: 12:48 00: 12:49 00: 12:50 00: 12:51 00: 12:52 00: 12:53 00: 12:55 00: 12:55 00: 12:56 00: 12:57 00: 12:58 00: 12:59 00: 13:00	. Relocate Pkg #2 near Pkg #1.	P4. 2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
31		00:13:00 00:13:01 00:13:02 00:13:03 00:13:04 00:13:05 00:13:06 00:13:07 00:13:08 00:13:10 00:13:11 00:13:12 00:13:13 00:13:14 00:13:15 00:13:16 00:13:17 00:13:18 00:13:19 00:13:20 00:13:21 00:13:22 00:13:24 00:13:25 00:13:25 00:13:26 00:13:27 00:13:28 00:13:29 00:13:29 00:13:29	. Install carry bar in fitting on Pkg #2.	P4.3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
32		00:13:30 00:13:31 00:13:32 00:13:33 00:13:34 00:13:35 00:13:38 00:13:39 00:13:40 00:13:41 00:13:42 00:13:42 00:13:44 00:13:45 00:13:46 00:13:47 00:13:48 00:13:49 00:13:50 00:13:50 00:13:51 00:13:52 00:13:53 00:13:54 00:13:55 00:13:55 00:13:57 00:13:58 00:13:59 00:14:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
33		00:14:00 00:14:01 00:14:02 00:14:03 00:14:04 00:14:05 00:14:06 00:14:07 00:14:08 00:14:09 00:14:10 00:14:11 00:14:12 00:14:13 00:14:14 00:14:15 00:14:16 00:14:17 00:14:18 00:14:19 00:14:20 00:14:21 00:14:22 00:14:23 00:14:24 00:14:25 00:14:26 00:14:27 00:14:28 00:14:29 00:14:30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
34		00:14:30 00:14:31 00:14:32 00:14:33 00:14:34 00:14:35 00:14:36 00:14:37 00:14:38 00:14:39 00:14:40 00:14:41 00:14:42 00:14:43 00:14:44 00:14:45 00:14:45 00:14:47 00:14:48 00:14:49 00:14:50 00:14:51 00:14:52 00:14:53 00:14:55 00:14:55 00:14:56 00:14:57 00:14:58 00:14:59 00:15:00	CLOSE SEQ BAY DOORS	P5.0

Comment				area.
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
35		00:15:00 00:15:01 00:15:02 00:15:03 00:15:04 00:15:05 00:15:06 00:15:07 00:15:08 00:15:10 00:15:11 00:15:12 00:15:13 00:15:14 00:15:15 00:15:16 00:15:17 00:15:18 00:15:20 00:15:20 00:15:21 00:15:22 00:15:23 00:15:24 00:15:25 00:15:26 00:15:27 00:15:28 00:15:29 00:15:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
36		00:15:30 00:15:31 00:15:32 00:15:33 00:15:34 00:15:35 00:15:36 00:15:37 00:15:38 00:15:39 00:15:40 00:15:41 00:15:42 00:15:43 00:15:44 00:15:45 00:15:45 00:15:46 00:15:47 00:15:48 00:15:49 00:15:50 00:15:51 00:15:52 00:15:53 00:15:54 00:15:55 00:15:55 00:15:56 00:15:57 00:15:58 00:15:59 00:16:59		

Task	Commander	ALSEP/A-2 Time (Cumulative)	LM Pilot	Task
No.	Activity		Activity	No.
37		00:16:00 00:16:01 00:16:02 00:16:03 00:16:04 00:16:05 00:16:06 00:16:07 00:16:08 00:16:09 00:16:10 00:16:11 00:16:12 00:16:13 00:16:14 00:16:15 00:16:16 00:16:17 00:16:18 00:16:19 00:16:20 00:16:21 00:16:23 00:16:24 00:16:25 00:16:26 00:16:27 00:16:28 00:16:29 00:16:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
38		00:16:30 00:16:31 00:16:32 00:16:33 00:16:34 00:16:35 00:16:36 00:16:37 00:16:38 00:16:39 00:16:40 00:16:41 00:16:42 00:16:43 00:16:45 00:16:45 00:16:46 00:16:47 00:16:48 00:16:49 00:16:50 00:16:51 00:16:52 00:16:53 00:16:54 00:16:55 00:16:55 00:16:57 00:16:57 00:16:58 00:16:59 00:17:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
39		00:17:00 00:17:01 00:17:02 00:17:03 00:17:04 00:17:05 00:17:06 00:17:07 00:17:08 00:17:10 00:17:10 00:17:11 00:17:12 00:17:13 00:17:14 00:17:15 00:17:16 00:17:17 00:17:18 00:17:19 00:17:20 00:17:21 00:17:22 00:17:23 00:17:24 00:17:25 00:17:26 00:17:27 00:17:28 00:17:29 00:17:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
40		00:17:30 00:17:31 00:17:32 00:17:33 00:17:34 00:17:35 00:17:36 00:17:37 00:17:38 00:17:39 00:17:40 00:17:41 00:17:42 00:17:43 00:17:44 00:17:45 00:17:46 00:17:47 00:17:48 00:17:49 00:17:50 00:17:51 00:17:52 00:17:53 00:17:54 00:17:55 00:17:55 00:17:56 00:17:57 00:17:58 00:17:59 00:18:00		

Comment of the Commen				
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
41		00:18:00 00:18:01 00:18:02 00:18:03 00:18:04 00:18:05 00:18:06 00:18:07 00:18:08 00:18:09 00:18:10 00:18:11 00:18:12 00:18:13 00:18:14 00:18:15 00:18:16 00:18:17 00:18:18 00:18:19 00:18:20 00:18:21 00:18:22 00:18:23 00:18:24 00:18:25 00:18:26 00:18:27 00:18:28 00:18:29 00:18:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
No	Activity	00:18:30 00:18:31 00:18:32 00:18:33 00:18:34 00:18:35 00:18:36 00:18:37 00:18:38 00:18:39 00:18:40 00:18:41 00:18:42 00:18:43 00:18:44 00:18:45 00:18:45 00:18:46 00:18:47 00:18:48 00:18:49 00:18:49 00:18:50 00:18:51 00:18:52 00:18:53 00:18:54 00:18:55 00:18:57 00:18:57	Activity	No.
		00:18:59 00:19:00		

Company				
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
43		00:19:00 00:19:01 00:19:02 00:19:03 00:19:04 00:19:05 00:19:06 00:19:07 00:19:08 00:19:09 00:19:10 00:19:11 00:19:12 00:19:14 00:19:15 00:19:16 00:19:17 00:19:18 00:19:19 00:19:20 00:19:21 00:19:22 00:19:23 00:19:24 00:19:25 00:19:26 00:19:27 00:19:28 00:19:29 00:19:30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
44		00:19:30 00:19:31 00:19:33 00:19:34 00:19:35 00:19:36 00:19:37 00:19:38 00:19:39 00:19:40 00:19:41 00:19:42 00:19:43 00:19:45 00:19:45 00:19:46 00:19:47 00:19:48 00:19:49 00:19:50 00:19:51 00:19:50 00:19:51 00:19:55 00:19:55 00:19:55 00:19:56 00:19:57 00:19:58 00:19:59 00:20:00		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
45		00:20:00 00:20:01 00:20:02 00:20:03 00:20:04 00:20:05 00:20:06 00:20:07 00:20:08 00:20:09 00:20:10 00:20:11 00:20:12 00:20:13 00:20:14 00:20:15 00:20:16 00:20:17 00:20:18 00:20:19 00:20:20 00:20:20 00:20:20 00:20:21 00:20:25 00:20:25 00:20:26 00:20:27 00:20:28 00:20:29 00:20:20 00:20:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	·	Task No.
46		00:20:30 00:20:31 00:20:32 00:20:33 00:20:34 00:20:35 00:20:36 00:20:37 00:20:38 00:20:39 00:20:40 00:20:41 00:20:42 00:20:42 00:20:43 00:20:45 00:20:45 00:20:46 00:20:47 00:20:48 00:20:49 00:20:49 00:20:50 00:20:51 00:20:51 00:20:55 00:20:55 00:20:55 00:20:55 00:20:55 00:20:59 00:20:59 00:20:59			

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Marine Marine		Management Commission of Commi)	
	_	ALSEP/A-2		1
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
13				
		00:21:00 00:21:01		
		00:21:01		
		00:21:03		
		00:21:04		
		00:21:05		
		00:21:06		
		00:21:07		
		00:21:08		
		00:21:09 00:21:10		
		00:21:11		
		00:21:12		
		00:21:13		
47		00:21:14		
		00:21:15		
		00:21:16 00:21:17		
		00:21:17		
		00:21:19		
		00:21:20		
		00:21:21		
		00:21:22		İ
		00:21:23 00:21:24		
		00:21:24		
		00:21:26		
		00: 21:27		
		00: 21:28		
		00: 21:29		
		00:21:30		
		•		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
48		00:21:30 00:21:31 00:21:32 00:21:33 00:21:34 00:21:35 00:21:36 00:21:37 00:21:38 00:21:39 00:21:40 00:21:41 00:21:42 00:21:42 00:21:43 00:21:44 00:21:45 00:21:45 00:21:48 00:21:49 00:21:50 00:21:51 00:21:52 00:21:53 00:21:55 00:21:55 00:21:56 00:21:57 00:21:58 00:21:59 00:22:00		

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Marie Value				}
artitalitiin.	™aggeed*	ATCED/A 3	1	ĺ
Task	Commendan	ALSEP/A-2	I M Dil	_ ,
	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
No.				
C2.0	OFF LOAD LR ³ (300)	00:22:00	LRV STOWAGE ASSIST	
C2.1	Release LR ³ (300)/LM Adaptor	00:22:01		
~- , .	tie-downs.	00:22:02	STOW QUAD III EQUIP PALET ON LRV	P6.0
	tre-downs.	00:22:02		
		00:22:04		
:		00:22:05		
		00:22:06		
		00:22:07		
;		00:22:08		
		00:22:08	·	
C2.2	. Pull LR ³ (300)/LM adaptor from LM	00:22:10		1
- · · · ·	stowage & lower to lunar surface.	00:22:11		
	browage a rower to funal surface.	00:22:12		
		00:22:13	, , , , , , , , , , , , , , , , , , ,	
		00:22:14		
49		00:22:15		,
		00:22:16		•
		00:22:17		
		00:22:18	·	
		00:22:19		
		00:22:20		
		00:22:21		
		00:22:22		
		00:22:23		
		00:22:24		
C2.3	. Release & remove forward support	00:22:25		
	of LM adaptor.	00:22:26		
		00:22:27		
		00:22:28		
		00:22:29		
		00:22:30		
		}		
			•	

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
50 C2.4	. Release LR ³ (300) tie-downs.	00:22 :30 00:22 :31 00:22 :32 00:22 :33 00:22 :34 00:22 :35 00:22 :36 00:22 :37 00:22 :38 00:22 :39 00:22 :40 00:22 :41 00:22 :42 00:22 :44 00:22 :45 00:22 :45 00:22 :46 00:22 :47 00:22 :48 00:22 :49 00:22 :49 00:22 :50 00:22 :51 00:22 :52 00:22 :55 00:22 :55 00:22 :55 00:22 :55 00:22 :56 00:22 :57 00:22 :58 00:22 :59 00:23 :00		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
C2.5	. Remove LR ³ (300) from LM adaptor & discard LM adaptor.	00:23 :00 00:23 :01 00:23 :02 00:23 :03 00:23 :04 00:23 :05 00:23 :06 00:23 :07 00:23 :08 00:23 :10 00:23 :11 00:23 :12 00:23 :13 00:23 :14 00:23 :15 00:23 :16 00:23 :17 00:23 :18 00:23 :19 00:23 :19 00:23 :21 00:23 :22 00:23 :22 00:23 :23 00:23 :24 00:23 :25 00:23 :26 00:23 :27 00:23 :28 00:23 :29 00:23 :29 00:23 :30			

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
52		00:23:30 00:23:31 00:23:33 00:23:34 00:23:35 00:23:36 00:23:37 00:23:38 00:23:39 00:23:40 00:23:41 00:23:42 00:23:44 00:23:45 00:23:45 00:23:46 00:23:47 00:23:48 00:23:49 00:23:50		

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· ·	ommander activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
53		00:24 :00 00:24 :01 00:24 :02 00:24 :03 00:24 :05 00:24 :06 00:24 :07 00:24 :09 00:24 :10 00:24 :11 00:24 :12 00:24 :13 00:24 :15 00:24 :15 00:24 :16 00:24 :17 00:24 :18 00:24 :19 00:24 :21 00:24 :22 00:24 :23 00:24 :24 00:24 :25 00:24 :25 00:24 :26 00:24 :27 00:24 :28 00:24 :29 00:24 :30	Stow LR ³ (300) on LRV RT Seat	P7.0

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
54		00:24 :30 00:24 :31 00:24 :32 00:24 :33 00:24 :34 00:24 :35 00:24 :36 00:24 :37 00:24 :39 00:24 :40 00:24 :41 00:24 :42 00:24 :43 00:24 :44 00:24 :45 00:24 :45 00:24 :48 00:24 :49 00:24 :49 00:24 :50 00:24 :51 00:24 :53 00:24 :55 00:24 :55 00:24 :56 00:24 :57 00:24 :58 00:24 :59 00:25 :00		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
55		00:25 :00 00:25 :01 00:25 :02 00:25 :03 00:25 :04 00:25 :05 00:25 :06 00:25 :07 00:25 :08 00:25 :09 00:25 :10 00:25 :11 00:25 :12 00:25 :13 00:25 :14 00:25 :15 00:25 :16 00:25 :17 00:25 :18 00:25 :19 00:25 :21 00:25 :21 00:25 :22 00:25 :23 00:25 :24 00:25 :25 00:25 :26 00:25 :27 00:25 :28 00:25 :29 00:25 :29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:25 :30 00:25 :31 00:25 :32		
		00:25 :33 00:25 :34		
		00:25 :35 00:25 :36		
		00:25 :37 00:25 :38		
		00:25 :39 00:25 :40		
		00:25:41 00:25:42		
56		00: 25 :43 00: 25 :44		
		00: 25 :45 00: 25 :46 00: 25 :47		
		00: 25 : 48 00: 25 : 49		·
		00: 25 :50 00: 25 :51		
		00: 25 :52 00: 25 :53		
		00: 25 :54 00: 25 :55 00: 25 :56		
		00: 25 :57 00: 25 :58		
		00: 25 :59 00:26 :00		·
	•	1		,

Camera				
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
57		00:26 :00 00:26 :01 00:26 :02 00:26 :03 00:26 :04 00:26 :05 00:26 :06 00:26 :07 00:26 :08 00:26 :09 00:26 :11 00:26 :12 00:26 :12 00:26 :13 00:26 :14 00:26 :15 00:26 :16 00:26 :17 00:26 :18 00:26 :19 00:26 :21 00:26 :21 00:26 :22 00:26 :23 00:26 :24 00:26 :25 00:26 :25 00:26 :27 00:26 :28 00:26 :29 00:26 :29 00:26 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
58		00:26:30 00:26:31 00:26:32 00:26:33 00:26:34 00:26:35 00:26:37 00:26:38 00:26:39 00:26:40 00:26:41 00:26:42 00:26:43 00:26:44 00:26:45 00:26:45 00:26:46 00:26:47 00:26:48 00:26:49 00:26:50 00:26:51 00:26:52 00:26:53 00:26:55 00:26:55 00:26:55 00:26:57 00:26:58 00:26:59 00:27:00		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
59		00:27:00 00:27:01 00:27:02 00:27:03 00:27:04 00:27:05 00:27:06 00:27:07 00:27:08 00:27:10 00:27:11 00:27:12 00:27:13 00:27:14 00:27:15 00:27:16 00:27:16 00:27:17 00:27:18 00:27:19 00:27:20 00:27:20 00:27:21 00:27:22 00:27:23 00:27:24 00:27:25 00:27:26 00:27:27 00:27:28 00:27:29 00:27:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
60		00:27:30 00:27:31 00:27:32 00:27:33 00:27:34 00:27:35 00:27:36 00:27:37 00:27:38 00:27:39 00:27:40 00:27:41 00:27:42 00:27:42 00:27:44 00:27:45 00:27:45 00:27:46 00:27:47 00:27:48 00:27:49 00:27:50 00:27:50 00:27:51 00:27:52 00:27:55 00:27:55 00:27:55 00:27:57 00:27:58 00:27:59 00:28:00		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
61		00:28 :00 00:28 :01 00:28 :02 00:28 :03 00:28 :04 00:28 :05 00:28 :06 00:28 :07 00:28 :08 00:28 :10 00:28 :11 00:28 :12 00:28 :13 00:28 :14 00:28 :15 00:28 :16 00:28 :17 00:28 :18 00:28 :19 00:28 :10 00:28 :21 00:28 :21 00:28 :22 00:28 :23 00:28 :24 00:28 :25 00:28 :26 00:28 :27 00:28 :28 00:28 :29 00:28 :30		

	49	<u>.</u>		1
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
62		00:28:30 00:28:31 00:28:32 00:28:33 00:28:34 00:28:35 00:28:36 00:28:37 00:28:38 00:28:39 00:28:40 00:28:41 00:28:42 00:28:44 00:28:45 00:28:45 00:28:46 00:28:47 00:28:48 00:28:49 00:28:50		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
63		00:29:00 00:29:01 00:29:02 00:29:03 00:29:04 00:29:05 00:29:06 00:29:07 00:29:08 00:29:10 00:29:11 00:29:12 00:29:13 00:29:14 00:29:15 00:29:16 00:29:17 00:29:18 00:29:19 00:29:21 00:29:21 00:29:21 00:29:25 00:29:25 00:29:25 00:29:27 00:29:28 00:29:29 00:29:29 00:29:29		
				l

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C3.0	00:29:30 FLAG DEPLOY & COMM. CHECK 00:40:30	00:29:30 00:29:31 00:29:32 00:29:33 00:29:34 00:29:35 00:29:36 00:29:37 00:29:38 00:29:39 00:29:40 00:29:41 00:29:42 00:29:43 00:29:44 00:29:45 00:29:45 00:29:46 00:29:47 00:29:48 00:29:49 00:29:50 00:29:51 00:29:52 00:29:53 00:29:55 00:29:55 00:29:55 00:29:57 00:29:58 00:29:59 00:30:00	S-BAND SWITCH & FLAG DEPLOY 00:40:30	P8.0

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· ·		ALSEP/A-2		
Task No.	Commander	Time	LM Pilot	Task
140.	Activity	(Cumulative)	Activity	No.
	00:40:30		00:40:30	
C4.0	ALSEP TRAVERSE	00:40:30	ALSEP TRAVERSE	P9.0
	(ON LRV)	00:40:31 00:40:32	(Use carry bar to lift ALSEP	1 - /. °
	00:52:00	00:40:33	Pkg #1 and #2)]
		00:40:34	Walk to ALSEP Site	
		00:40:35	00:52:00	.
		00:40:36	00.32.00	1
		00:40:37		
		00:40:38		
		00:40:39		
		00:40:40 00:40:41		
		00:40:41		
		00:40:43		
65		00:40:44		
		00:40:45		
		00:40:46		
		00:40:47		
		00:40:48 00:40:49		
		00:40:50		
		00:40:51		
		00:40:52		
		00:40:53		
		00:40:54		
		00:40:55		
		00:40:56		
		00:40:57 00:40:58		
		00:40:59		
		00:41:00		
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Task	Commander	ALSEP/A-2 Time	LM Pilot Activity	Task No.
No.	Activity	(Cumulative)		
No.	(Park LRV near Deployment Site)	(Cumulative) 00:52:00 00:52:01 00:52:02 00:52:03 00:52:04 00:52:05 00:52:06 00:52:07 00:52:08 00:52:09 00:52:10 00:52:11 00:52:12 00:52:13	POSITION ALSEP AT SITE Lower ALSEP Pkg #1 & #2 to Lunar Surface Disengage carry bar from Pkg #2.	P10.0 P10.1
66	-	00:52:13 00:52:14 00:52:15 00:52:16 00:52:17 00:52:18 00:52:19		
		00:52:20 00:52:21 00:52:22 00:52:23 00:52:24 00:52:25 00:52:26 00:52:27 00:52:28 00:52:29 00:52:30	. Lift Pkg #1, Walk 10 feet west of Pkg #2 on E-W axis & lower Pkg #1 to lunar surface.	P10.3

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
67		00:52:30 00:52:31 00:52:32 00:52:33 00:52:34 00:52:35 00:52:37 00:52:38 00:52:39 00:52:40 00:52:41 00:52:42 00:52:43 00:52:44 00:52:45 00:52:46 00:52:47 00:52:48 00:52:49 00:52:49 00:52:50 00:52:51 00:52:52 00:52:53 00:52:54 00:52:55 00:52:55 00:52:56 00:52:57 00:52:58 00:52:59 00:53:00	. Disengage UHT from Pkg #1. . Tether UHT to EMU . Return to Pkg #2.	P10.4 P10.5

Task Commander No. Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C5.0 ALSEP SYSTEM INTERCONNECT OFF LOAD HTC	00:53:00 00:53:01 00:53:02 00:53:03 00:53:04 00:53:05 00:53:06 00:53:07 00:53:08 00:53:10 00:53:11 00:53:12 00:53:13 00:53:14 00:53:15 00:53:16 00:53:17 00:53:18 00:53:19 00:53:20 00:53:21 00:53:22 00:53:22 00:53:24 00:53:25 00:53:26 00:53:27 00:53:29 00:53:29 00:53:30	ALSEP SYSTEM INTERCONNECT	

Task No.	Commander Activity	ALS_1/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
69		00:53:30 00:53:31 00:53:32 00:53:33 00:53:34 00:53:35 00:53:38 00:53:39 00:53:40 00:53:41 00:53:42 00:53:42 00:53:43 00:53:44 00:53:45 00:53:46 00:53:47 00:53:48 00:53:49 00:53:49 00:53:51 00:53:51 00:53:51 00:53:55 00:53:55 00:53:55 00:53:57 00:53:58 00:53:59 00:54:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C5. 1	. Walk to Pkg #2.	00:54:00 00:54:01 00:54:02 00:54:03 00:54:04 00:54:05 00:54:06 00:54:07 00:54:08 00:54:10 00:54:11 00:54:12 00:54:13 00:54:14 00:54:15 00:54:16 00:54:17 00:54:18 00:54:19 00:54:20 00:54:21 00:54:22 00:54:23 00:54:24 00:54:25 00:54:26 00:54:27 00:54:28 00:54:29 00:54:29 00:54:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C6.0 7 C6.1 C6.2	OFFLOAD HFE Release velcroed astromate pull ring. Use pull ring to remove astromate pull pin & first HFE subpallet pull pin & discard. Release velcroed HFE subpallet pull ring.	00:54:30 00:54:31 00:54:32 00:54:33 00:54:34 00:54:35 00:54:36 00:54:37 00:54:38 00:54:39 00:54:40 00:54:41 00:54:42 00:54:42 00:54:44 00:54:45 00:54:46 00:54:47 00:54:48 00:54:49 00:54:49 00:54:50 00:54:50 00:54:50 00:54:53 00:54:54 00:54:55 00:54:56 00:54:57 00:54:58		
		00:54:59 00:55:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C6.4	. Use pull ring to remove second	00:55:00		
	HFE subpallet pull pin & discard.	00:55:01		
		00:55:02		
		00:55:03		
		00:55:04		
C6.5	. Use stowed UHT to rotate Pkg #2 to	00:55:05		
	the deployed position (horizontal).	00:55:06		
		00:55:07		
		00:55:08		
		00:55:09		
		00:55:10		
		00:55:11		
		00:55:12		
		00:55:13		
C6.6	Discours as ITAT from Dire #2 and tather	00:55:14 00:55:15		
C6. 6	. Disengage UHT from Pkg #2 and tether UHT to EMU.	00:55:16		
	OHI to EMO.	00:55:17		
		00:55:18	•	
		00:55:19		
C6.7	. Release velcroed HFE subpallet	00:55:20		
	carry handle & lock in position.	00:55:21		
		00:55:22		
		00:55:23		
		00:55:24		
C6.8	. Use UHT to release two Boydbolts on	00:55:25		
	HFE subpallet.	00:55 :26	·	İ
		00:55 :27		
		00:55:28		
		00:55:29		
		00:55:30		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
73	. Grasp HFE subpallet carry handle & lift HFE subpallet from Pkg #2.	00:55:30 00:55:31 00:55:32 00:55:33 00:55:34 00:55:35 00:55:37 00:55:38 00:55:39 00:55:40 00:55:42 00:55:42 00:55:42 00:55:44 00:55:45 00:55:45 00:55:46 00:55:47 00:55:48 00:55:49 00:55:49 00:55:50 00:55:51 00:55:52 00:55:53 00:55:53 00:55:55 00:55:56 00:55:57 00:55:58 00:55:59 00:56:00		

						No.
		00:56 :00			· · · · · · · · · · · · · · · · · · ·	
		00:56:01				
		00:56 :02				
		00:56 :03				1
		00:56 :04				l
		00:56 :05 00:56 :06				
C7.0 CONNECT HFE T	0.00	00:56 :07				
CI. 0 CONNECT TIPE 1	0 0/5	00:56 :08				
		00:56 :09				
C7.1 Grasp astromat	te handle, rotate	00:56 :10				
, -	nector clockwise, &	00:56 :11				
.	ate connector from	00:56 :12			•	
its stowage asse	embly.	00:56 :13				
-	·	00:56 :14				
7 4		00:56 :15				
		00:56 :16				
		00:56 :17				
		00:56 :18				
GT 3		00:56 :19				
	ole reel deployment &	00:56 :20				[
	ficient cable is deployed	00:56 :21 00:56 :22		-		
for connection	to C/S.	00:56 :23				
		00:56 :24				
C7.3 Lower HFE sub	pallet to lunar surface.	00:56 :25				
	parret to railar barrace.	00:56 :26				ļ
		00:56 :27				
		00:56 :28	•			
		00:56 :29				
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		ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
C7.4	. Walk to C/S with HFE astromate		REMOVE SUBPALLET	P11.0
01.4	connector.	00:56:30	. Use UHT to release two boydbolts on	P11.1
	connector.	00:56:31	subpallet.	
		00:56:32 00:56:33		
		00:56:34		
		00:56:35	•	
		00:56:36		
		00:56:37		
		00:56:38		
		00:56:39		
C7.5	. Remove C/S connector dust cover	00:56:40		ļ
	& discard.	00:56:41		1
		00:56:42		
		00:56:43		l
7 C7.6	Pomorro HEE orthograph	00:56:44		
0101.0	 Remove HFE astromate connector dust cover & discard. 			
	cover & discard.	00:56:46 00:56:47		
		00:56:48	·	
		00:56:49		
C7.7	. Mate HFE to C/S.	00:56:50	. Engage UHT in subpallet carry socket.	D11 2
		00:56:51	. Engage off in subpatiet carry socket.	P11.2
		00:56:52		
		00:56:53		
C7 0	717 A	00:56:54		
C7.8	. Walk to Pkg #2.	00:56:55	. Use UHT to remove subpallet from	P11.3
		00:56:56	Pkg #2, walk 10 feet west & lower	
İ		00:56:57	subpallet to lunar surface.	
		00:56:58		
		00:56:59		
		00:57:00		
ļ				
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76	00:57:00 00:57:01 00:57:02 00:57:03 00:57:04 00:57:05 00:57:06		
	00:57:07 00:57:08 00:57:09 00:57:10 00:57:11 00:57:12 00:57:13 00:57:14 00:57:15 00:57:16 00:57:17 00:57:18 00:57:19 00:57:20 00:57:21 00:57:22 00:57:23 00:57:24 00:57:25 00:57:26 00:57:27 00:57:28 00:57:29 00:57:30	. Disengage UHT from subpallet.	P11.4

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:57:30 00:57:31 00:57:32 00:57:33 00:57:34 00:57:35 00:57:36 00:57:37 00:57:38 00:57:39 00:57:40 00:57:41 00:57:42 00:57:43 00:57:44	REMOVE SIDE . Use UHT to release Deutsch-fastener on CCIG retention bracket.	P12.0 P12.1
77		00:57:45 00:57:46 00:57:47 00:57:48 00:57:49 00:57:50 00:57:51 00:57:52 00:57:53 00:57:54 00:57:55 00:57:56 00:57:57 00:57:58 00:57:59 00:58:00	. Use UHT to release four boydbolts on SIDE/CCIG.	P12.2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
78		00:58:00 00:58:01 00:58:02 00:58:03 00:58:04 00:58:05 00:58:06 00:58:07 00:58:08 00:58:09 00:58:10 00:58:11 00:58:12 00:58:13 00:58:14 00:58:15 00:58:16 00:58:17 00:58:18 00:58:19 00:58:20 00:58:21 00:58:22 00:58:23 00:58:24 00:58:25 00:58:25 00:58:27 00:58:27 00:58:29 00:58:30	. Engage UHT in SIDE/CCIG carry socket.	P1 2. 3

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:58:30 00:58:31 00:58:32 00:58:33 00:58:34	. Use UHT to remove SIDE/CCIG from subpallet.	P12.4
		00:58:35 00:58:36 00:58:37 00:58:38 00:58:39	. Remove left, front guide cup & discard.	P12.5
79		00:58:40 00:58:41 00:58:42 00:58:43 00:58:44 00:58:45 00:58:46 00:58:47 00:58:48 00:58:49	. Remove SIDE/CCIG cable reel & discard	P12.6
		00:58:50 00:58:51 00:58:52 00:58:53 00:58:54 00:58:55 00:58:56 00:58:57 00:58:58 00:58:59 00:59:00	. Pull Lanyard labeled "l" to release legs & verify legs deployed.	P12.7

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		00:59:00	. Lower SIDE/CCIG to lunar surface.	P12.8
		00:59:01		
		00:59:02		
		00:59:03		
		00:59:04		
		00:59:05	. Disengage UHT from SIDE/CCIG.	P12.9
		00:59:06		
		00:59:07		
		00:59:08		
		00:59:09 00:59:10		
		00:59:10	·	
		00:59:12		
		00:59:13	Connect SIDE to C/S	P13.0
		00:59:14		1 13.0
80		00:59:15	. Use UHT to remove pull pin on SIDE/	P13.1
		00:59:16	CCIG cable cradle & to retrieve	
		00:59:17	SIDE/CCIG connector from cable cradle.	
		00:59:18		
		00:59:19		
		00:59:20		
		00:59:21		
		00:59:22		
		00:59:23 00:59:24		
	,	00:59:25		
		00:59:26		
		00:59:27		
		00:59:28		
		00:59:29		
		00:59:30	. Stow UHT to EMU.	P13.2
	·			
		}	Į	

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
81		00:59:30 00:59:31 00:59:32 00:59:33 00:59:34 00:59:35 00:59:36 00:59:38 00:59:38 00:59:39 00:59:40 00:59:41 00:59:42 00:59:43 00:59:44	. Walk to Pkg #1.	P13.3
		00:59:45 00:59:46 00:59:47 00:59:48 00:59:49	. Remove C/S connector dust cover & discard.	P13.4
		00:59:50 00:59:51 00:59:52 00:59:53 00:59:54	. Remove SIDE/CCIG connector dust cover & discard.	P13.5
		00:59:55 00:59:56 00:59:57 00:59:58 00:59:59 01:00:00	. Mate SIDE/CCIG cable to C/S.	P13.6

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C8.0	CONNECT RTG TO C/S	01:00:00 01:00:01 01:00:02 01:00:03 01:00:04 01:00:05 01:00:06 01:00:07 01:00:08 01:00:09 01:00:10 01:00:11 01:00:12 01:00:13	. Disengage carry bar from Pkg #1.	P13.7
% C8.1	. Read tempilabel on RTG cable reel.	01:00:14 01:00:15 01:00:16 01:00:17 01:00:18	. Walk to subpallet.	P13.8
C8.2	. Use UHT to release three boydbolts on RTG cable reel.	01:00:19 01:00:20 01:00:21 01:00:22 01:00:23 01:00:24 01:00:25 01:00:26 01:00:27 01:00:28 01:00:29 01:00:30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:00:30 01:00:31 01:00:32 01:00:33 01:00:34 01:00:35 01:00:36 01:00:37 01:00:38 01:00:39	. Stow antenna mast/carry bar on subpallet taper fitting.	P13.9
∞ C8.3		01:00:40 01:00:41 01:00:42 01:00:43 01:00:44 01:00:45 01:00:46 01:00:47 01:00:48 01:00:49	. Walk to Pkg #2.	P13.10
	. Engage UHT in RTG cable reel carry socket.	01:00:50 01:00:51 01:00:52 01:00:53 01:00:54		
C8.4	. Use UHT to remove RTG reel from Pkg #2 & walk to Pkg #1, deploying power cable.	01:00:54 01:00:55 01:00:56 01:00:57 01:00:58 01:00:59 01:01:00		

	Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
	balance and a		01:01 :00		
			01:01 :01		
			01:01 :02 01:01 :03		
			01:01 :03		
			01:01 :05		
			01:01 :06		
			01:01 :07		.]
			01:01 :08		
	~~ ~		01:01 :09		
	C8.5	. Remove shorting switch pull pin & discard.	01:01 :10		
		discard.	01:01 :11 01:01 :12		
•			01:01 :13		1
			01:01 :14		
H C	°C8.6	. Grasp shorting switch assembly.	01:01 :15		
			01:01 :16		
			01:01 :17		
			01:01 :18		
	C8.7	Discours WIE from DEC solds	01:01 :19		
	C8. 7	. Disengage UHT from RTG cable reel & discard cable reel.	01:01 :20 01:01 :21]
		rect & discard capie rect.	01:01 :22		
			01:01 :23	·	1
			01:01 :24		
	C8.8	. Stow UHT on EMU.	01:01 :25		
		<u> </u>	01:01 :26		-
			01:01 :27		
			01:01 :28 01:01 :29		
			01:01 :29		
			01.01		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C8.9	. Separate shorting switch pull ring from shorting switch & pull lanyard.	01:01 :30 01:01 :31 01:01 :32 01:01 :33 01:01 :34 01:01 :35 01:01 :36 01:01 :37 01:01 :38		
C8.10	. Report ammeter reading & prepare for plug-in.	01:01:39 01:01:40 01:01:41 01:01:42 01:01:43 01:01:44 01:01:45 01:01:46 01:01:47		
C8.11	. Remove C/S connector dust cover & discard.	01:01:48 01:01:49 01:01:50 01:01:51 01:01:52 01:01:53		
C8. 12	. Remove shorting switch assembly dust cover & discard.	01:01:54 01:01:55 01:01:56 01:01:57 01:01:58 01:01:59 01:02:00		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:02 :00 01:02 :01		
		01:02 :02		
		01:02 :03		
		01:02 :04		
C8.13	. Mate power cable to C/S.	01:02 :05		
		01:02 :06 01:02 :07		
		01:02 :07		İ
		01:02 :09		
C8.14	. Check shorting switch amps & report.	01:02 :10		
		01:02 :11		
-		01:02 :12		
		01:02 :13		
G0 1#		01:02 :14		
C8. 15	. Depress shorting switch & report	01:02 :15		
	opening of shorting switch.	01:02 :16 01:02 :17		
		01:02 :17	·	1
		01:02 :19		
		01:02 :20		}
		01:02 :21		
		01:02 :22		
		01:02 :23		
		01:02 :24		
		01:02 :25		
		01:02 :26 01:02 :27		
		01:02 :28		
		01:02 :29		
		01:02 :30		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C8. 16	. Return to Pkg #2.	01:02:30 01:02:31 01:02:32 01:02:33 01:02:34 01:02:35 01:02:36 01:02:37 01:02:38 01:02:39 01:02:40 01:02:41 01:02:42 01:02:44 01:02:45 01:02:45 01:02:46 01:02:47 01:02:48 01:02:49 01:02:50 01:02:50 01:02:50 01:02:51 01:02:55 01:02:55 01:02:55 01:02:56 01:02:57 01:02:58 01:02:59 01:02:59		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C9.0	Carry HFE Subpallet to Deployment Site	01:03:00		
C9. 1	. Grasp HFE subpallet carry handle & lift the HFE subpallet from lunar surface.	01:03:01 01:03:02 01:03:03 01:03:04 01:03:05 01:03:06 01:03:07 01:03:08 01:03:09		
C9.2	. Walk with HFE subpallet approx. 30 feet North from Pkg #1.	01:03:07 01:03:10 01:03:11 01:03:12 01:03:13		
		01:03:14 01:03:15 01:03:16 01:03:17 01:03:18 01:03:19 01:03:20 01:03:21 01:03:22 01:03:23 01:03:24 01:03:25 01:03:25 01:03:26 01:03:27 01:03:28 01:03:29 01:03:30		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
89		01:03:30 01:03:31 01:03:32 01:03:33 01:03:34 01:03:35 01:03:36 01:03:37 01:03:38 01:03:39 01:03:40 01:03:41 01:03:42 01:03:43 01:03:44 01:03:45 01:03:46 01:03:47 01:03:48 01:03:49 01:03:50 01:03:51 01:03:52 01:03:53 01:03:55 01:03:55 01:03:55 01:03:57 01:03:58 01:03:59 01:04:00		
•	•	1		1

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	T
		01:04 :00		
		01:04:01		
		01:04:02		
		01:04:03		1
		01:04:04		
		01:04:05		
		01:04:06		
		01:04:07		}
		01:04:08		
		01:04:09		
		01:04:10		
		01:04:11		
		01:04:12	·	
		01:04:13		
		01:04 :14 01:04 :15		
	,	01:04:15		
!		01:04:13		
		01:04:11		- 1
		01:04 :18		
		01:04 :20		
		01:04 :21		
		01:04 :22		
		01:04 :23		
		01:04 :24		
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		01:04 :26		
		01:04 :27		İ
		01:04 :28		
		01:04 :29		ĺ
		01:04 :30		
!				
				}
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Carry Carry				- washing
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
91		01:04:30 01:04:31 01:04:32 01:04:33 01:04:34 01:04:35 01:04:36 01:04:37 01:04:38 01:04:39 01:04:40 01:04:41 01:04:42 01:04:43 01:04:44 01:04:45 01:04:46 01:04:47 01:04:48 01:04:50 01:04:51 01:04:52 01:04:53 01:04:55 01:04:55 01:04:56 01:04:57 01:04:58 01:04:59 01:05:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
92		01:05 :00 01:05 :01 01:05 :02 01:05 :03 01:05 :04 01:05 :05 01:05 :06 01:05 :07 01:05 :08 01:05 :10 01:05 :11 01:05 :12 01:05 :13 01:05 :14 01:05 :15 01:05 :16 01:05 :17 01:05 :18 01:05 :19 01:05 :20 01:05 :21 01:05 :22 01:05 :23 01:05 :24 01:05 :25 01:05 :26 01:05 :27 01:05 :28 01:05 :29 01:05 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
93		01:05:30 01:05:31 01:05:32 01:05:33 01:05:34 01:05:35 01:05:36 01:05:37 01:05:38 01:05:39 01:05:40 01:05:41 01:05:42 01:05:43 01:05:44 01:05:45 01:05:46 01:05:46 01:05:49 01:05:50 01:05:51 01:05:52 01:05:53 01:05:55 01:05:55 01:05:56 01:05:57 01:05:59 01:06:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No
		01:06:00 01:06:01		
		01:06:02		
		01:06:03		
		01:06:04		1
		01:06:05		
		01:06:06		
		01:06:07		
		01:06:08		
		01:06:09 01:06:10		
		01:06:11		
		01:06:12		
		01:06:13		
		01:06:14		
		01:06:15		·
		01:06:16		
		01:06:17		
		01:06:18		
		01:06 :19 01:06 :20		
		01:06:21		
		01:06:22		
		01:06:23		
		01:06 :24		
		01:06:25		
		01:06:26		
		01:06:27		
		01:06 :28 01:06 :29		
		01:06:30		
		01.00		

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Marine Ma		Marian Ma)	1
		ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
			·	
	HFE SITE SET-UP	01:06:30	PSE DEPLOYMENT	
		01:06:31	Deploy PSE Stool	P14.0
C10.0	OFFLOAD HFE	01:06:32	. Unstow UHT	P14.0
C10.1	. Collapse HFE subpallet strut	01:06:33		F 14. 1
	support assembly.	01:06:34		
		01:06:35	. Use UHT to remove pull pin on PSE	P14.2
		01:06:36	stool & discard pull pin.	
		01:06:37		
		01:06:38	•	
C10.2	. Lower HFE subpallet to lunar surface	01:06:39		
010.2	so that it rests on its legs.	01:06:40	. Use UHT to remove PSE stool from	P14.3
	so that it rests on its legs.	01:06:41 01:06:42	subpallet.	
		01:06:42		1
		01:06:44		
% C10.3	. Unstow UHT.	01:06:45		
		01:06:46		
		01:06:47		
		01:06:48		
G10 /		01:06:49		1
C10.4	. Hook UHT handle in HFE subpallet	01:06:50	. Grasp stool with UHT.	P14.4
	carry handle & use UHT to rotate	01:06:51		
	the HFE subpallet so that the HFE	01:06:52		
	probe pkg & the HFE electronics pkg are positioned upward.	01:06:53		
	are positioned upward.	01:06 :54 01:06 :55	777 77 78 78 78 78 78 78 78 78 78 78 78	
			. Walk 10 feet west of Pkg #1.	P14.5
		01:06:56 01:06:57		
		01:06:58		1
		01:06:59		1
		01:07:00		
i				
				ı

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C10.5	. Disengage UHT from HFE subpallet carry handle.	01:07:00 01:07:01 01:07:02 01:07:03		
C10.6	. Use UHT to release four Boydbolts on HFE probe pkg.	01:07:04 01:07:05 01:07:06 01:07:07 01:07:08 01:07:09 01:07:10 01:07:11		
96		01:07 :12 01:07 :13 01:07 :14 01:07 :15 01:07 :16 01:07 :17		
		01:07 :18 01:07 :19 01:07 :20 01:07 :21 01:07 :22 01:07 :23 01:07 :24		
		01:07 :25 01:07 :26 01:07 :27 01:07 :28 01:07 :29 01:07 :30		
		,		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:07:30 01:07:31 01:07:32 01:07:33 01:07:34 01:07:35 01:07:36 01:07:37 01:07:39 01:07:40 01:07:41	. Pack surface & gouge hole in center for PSE stool.	P14.6
9 C10.7	. Use UHT handle to hook HFE probe pkg handle.	01:07:42 01:07:43 01:07:44 01:07:45 01:07:46 01:07:47	·	
C10.8	. Use UHT to remove the HFE probe pkg from the HFE subpallet.	01:07:49 01:07:50 01:07:51 01:07:52 01:07:53		
C10.9	. Grasp HFE probe pkg. handle.	01:07:54 01:07:55 01:07:56 01:07:57 01:07:58 01:07:59 01:08:00		

i	1			1
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C10.10	. Stow UHT.	01:08:00 01:08:01 01:08:02 01:08:03 01:08:04		
C10.11	. Remove first velcroed closure strap & discard.	01:08:05 01:08:06 01:08:07 01:08:08 01:08:09		
C10.12	. Support HFE probe pkg, remove second velcroed closure strap & discard.	01:08:10 01:08:11 01:08:12 01:08:13 01:08:14		
% C10.13	. Use HFE probe pkg. handles to separate two halves of probe pkg.	01:08:15 01:08:16 01:08:17 01:08:18		
C10.14	. Lean unmarked half of HFE probe pkg. against the HFE subpallet.	01:08:19 01:08:20 01:08:21 01:08:22 01:08:23 01:08:24 01:08:25 01:08:25 01:08:27 01:08:28 01:08:29 01:08:30		
		1		

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All the second s	and the second s	The same of the sa		
		A T CIDDAA		
Task	Commander	ALSEP/A-2 Time	T.M. Dilat	
No.	Activity	(Cumulative)	LM Pilot	Task
110.	Activity	(Cumulative)	Activity	No.
	DEPLOY 1st PROBE		·	
C11.0	. Grasp HFE Probe pkg handle and	01:08:30	. Lower PSE stool to lunar surface.	P14.7
C11.1	retrieve marked half of HFE probe pkg.	01:08:31	·	
		01:08:32		
		01:08:33		
G11 0		01:08:34		
C11.2	. Grasp pull ring and rotate emplacement	01:08:35		
	tool holding device from its stowed	01:08:36		
	position, and attach the holding device	01:08:37		
	to the bottom of the probe pkg.	01:08:38	·	
		01:08:39		
		01:08:40	. Disengage UHT and return to Pkg #1.	P14.3
		01:08:41		
		01:08:42 01:08:43		
		01:08:43		
9 C11.3	. Grasp HFE probe pkg carry strap.	01:08:45		
	i i i go asy samp.	01:08:46		
		01:08:47		
		01:08:48	·	
		01:08:49		
C11.4	. Walk 16 feet west of the HFE electronics	01:08:50		
	pkg to the first bore hole site, deploying	01:08:51		
	probe cable.	01:08:52		
		01:08:53		
		01:08:54		
		01:08:55		
		01:08:56		
		01:08:57		
		01:08:58		
		01:08:59		
		01:09:00		1
		1	1	

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C11.5	. Lower HFE probe pkg to lunar surface, open face downward.	01:09:00 01:09:01 01:09:02 01:09:03 01:09:04 01:09:05 01:09:06 01:09:07 01:09:08 01:09:09 01:09:10 01:09:11 01:09:12 01:09:13 01:09:14 01:09:15 01:09:16 01:09:16 01:09:17 01:09:18 01:09:19 01:09:20 01:09:20 01:09:21 01:09:25 01:09:25 01:09:25 01:09:28 01:09:29 01:09:30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:09:30 01:09:31 01:09:32 01:09:33 01:09:34 01:09:35 01:09:36 01:09:37 01:09:38 01:09:39	. Stow UHT in pkg #1 temporary stowage socket.	P14.9
101		01:09:40 01:09:41 01:09:42 01:09:43 01:09:44 01:09:45 01:09:46 01:09:47 01:09:48 01:09:49 01:09:50 01:09:51 01:09:52 01:09:53 01:09:54 01:09:55 01:09:55 01:09:55 01:09:57 01:09:58 01:09:59 01:10:00	. Use stowed UHT as a handle to rotate pkg #1 to the deployed position and align on E-W axis.	P14. 10

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
102		01:10:00 01:50:01 01:10:02 01:10:03 01:10:04 01:10:05 01:10:06 01:10:07 01:10:08 01:10:09 01:10:10 01:10:11 01:10:12 01:10:13 01:10:14 01:10:15 01:10:16 01:10:17 01:10:18 01:10:19 01:10:20 01:10:21 01:10:22 01:10:23 01:10:25 01:10:25 01:10:28 01:10:29 01:10:30	. Disengage UHT from Pkg #1 temporary stowage socket.	P14. 11

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
103		01:10:30 01:10:31 01:10:32 01:10:33 01:10:34 01:10:35 01:10:36 01:10:37 01:10:38 01:10:39 01:10:40 01:10:41 01:10:42 01:10:43 01:10:45 01:10:45 01:10:46 01:10:47 01:10:48 01:10:49 01:10:50 01:10:51 01:10:52 01:10:53 01:10:55 01:10:56 01:10:57 01:10:58 01:10:59 01:11:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Ta No
les-		01:11:00		
,		01:11:01		
		01:11:02		
		01:11:03		
		01:11:04		
		01:11:05		
		01:11:06 01:11:07		
		01:11:07		
		01:11:08		
		01:11:10		
		01:11:11		
		01:11:12		
		01:11:13		
	,	01:11:14		
104		01:11:15		
: -		01:11:16		
		01:11:17		
		01:11:18		
		01:11:19		
		01:11:20 01:11:21		
		01:11:21		
		01:11:23		
		01:11:24		
		01:11:25		
		01:11:26		
		01:11:27		
		01:11:28		
		01:11:29		
		01:11:30		

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·	and the second s	**************************************		
m 1		ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
		01:11:30	DEPLOY PSE	P15.0
		01:11:31		
		01:11:32		
		01:11:33		
		01:11:34		
		01:11:35	. Use UHT to release four Boyd Bolts	P15. 1
		01:11:36	on PSE.	F15. 1
		01:11:37		
		01:11:38		
		01:11:39		
		01:11:40		
		01:11:41		
		01:11:42		
		01:11:43		İ
<u> </u>		01:11:44		
105		01:11:45		
		01:11:46		
İ		01:11:47		
		01:11:48		
		01:11:49 01:11:50		
		01:11:51		
		01:11:52		
		01:11:53		
		01:11:54		
		01:11:55		
		01:11:56		
		01:11:57		
		01:11:58		
		01:11:59		
		01:12:00		
l	i	į	1	
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
106		01:12:00 01:12:01 01:12:02 01:12:03 01:12:04 01:12:05 01:12:06 01:12:07 01:12:08 01:12:09 01:12:10 01:12:11 01:12:12 01:12:13 01:12:14 01:12:15 01:12:16 01:12:17 01:12:18 01:12:19 01:12:20 01:12:20 01:12:21 01:12:22 01:12:23 01:12:24 01:12:25 01:12:26 01:12:26 01:12:28 01:12:29 01:12:29	. Engage UHT in PSE carry socket. . Use UHT to remove PSE from sunshield and to carry PSE to stool.	P15. 2

Task	Commander	ALSEP/A-2 Time (Cumulative)	LM Pilot	Task
No.	Activity		Activity	No.
107		01:12:30 01:12:31 01:12:32 01:12:33 01:12:34 01:12:35 01:12:36 01:12:37 01:12:38 01:12:39 01:12:40 01:12:41 01:12:42 01:12:42 01:12:43 01:12:44 01:12:45 01:12:46 01:12:47 01:12:48 01:12:49 01:12:50 01:12:51 01:12:52 01:12:53 01:12:54 01:12:55 01:12:55 01:12:56 01:12:57 01:12:58 01:12:59 01:13:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
108		01:13:00 01:13:01 01:13:02 01:13:03 01:13:04 01:13:05 01:13:06 01:13:07 01:13:08 01:13:10 01:13:11 01:13:12 01:13:13 01:13:14 01:13:15 01:13:15 01:13:16 01:13:17 01:13:18 01:13:19 01:13:20 01:13:21 01:13:22 01:13:22 01:13:25 01:13:25 01:13:26 01:13:27 01:13:28 01:13:29 01:13:30		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
109		01:13:30 01:13:31 01:13:32 01:13:33 01:13:35 01:13:36 01:13:37 01:13:38 01:13:39 01:13:40 01:13:41 01:13:42 01:13:43 01:13:44 01:13:45 01:13:46 01:13:47 01:13:48 01:13:49 01:13:50 01:13:51 01:13:52 01:13:53 01:13:55 01:13:55 01:13:55 01:13:56 01:13:57 01:13:58 01:13:59 01:14:00			

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:14:00 01:14:01 01:14:02 01:14:03 01:14:04 01:14:05 01:14:06 01:14:07 01:14:08 01:14:09	. Remove girdle pull pin.	P15.4
110		01:14:10 01:14:11 01:14:12 01:14:13 01:14:14 01:14:15 01:14:16 01:14:17 01:14:18 01:14:19	. Emplace PSE on stool and rough align.	P15. 5
		01:14:20 01:14:21 01:14:22 01:14:23 01:14:24 01:14:25 01:14:26 01:14:27 01:14:28 01:14:29 01:14:30	. Remove PSE girdle/pull pin and discard.	P15. 6
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Task No. Commander (Cumulative) LM Pilot Activity Task No. 114:30			- International Control of the Contr	-more and the state of the stat	. where the state of the state
Task Commander Time Cumulative Activity Task No. 1:14:30	N.				
Task Commander Time Cumulative Activity Task No. 1:14:30		- and the second	A L CEDIA 3		
No. Activity (Cumulative) Activity No. Ol:14:30	Task	Commander		I M Dilet	m1
01:14:30 01:14:31 01:14:32 01:14:33 01:14:33 01:14:35 01:14:36 01:14:39 01:14:40 01:14:41 01:14:42 01:14:43 01:14:44 01:14:45 01:14:45 01:14:46 01:14:48 01:14:50		5			
1		11011111	Camalative	Activity .	140.
11 14:31 01: 14:32 01: 14:33 01: 14:34 01: 14:35 01: 14:36 01: 14:37 01: 14:38 01: 14:39 01: 14:40 01: 14:40 01: 14:41 01: 14:42 01: 14:42 01: 14:42 01: 14:44 01: 14:45 01: 14:46 01: 14:46 01: 14:46 01: 14:49 01: 14:50 01:					
01: 14:33 01: 14:33 01: 14:35 01: 14:35 01: 14:36 01: 14:38 01: 14:38 01: 14:38 01: 14:40 01: 14:42 01: 14:42 01: 14:42 01: 14:45 01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:49 01: 14:49 01: 14:50 01: 14:51 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:56 01: 14:56 01: 14:56 01: 14:56 01: 14:57 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:58 01: 14:59 01: 14:58 01: 14:59 01:				. Disengage UHT from PSE.	P15.7
01:14:33					İ
01: 14:34 01: 14:35 01: 14:36 01: 14:37 01: 14:38 01: 14:39 01: 14:40 01: 14:41 01: 14:42 01: 14:45 01: 14:45 01: 14:45 01: 14:45 01: 14:50					
01: 14:35 01: 14:36 01: 14:37 01: 14:38 01: 14:40 01: 14:41 01: 14:42 01: 14:42 01: 14:43 01: 14:45 01: 14:45 01: 14:46 01: 14:48 01: 14:49 01: 14:50 01: 14:50 01: 14:50 01: 14:50 01: 14:55 01: 14:55 01: 14:56 01: 14:56 01: 14:56 01: 14:56 01: 14:59			3		
14:36 01: 14:36 01: 14:38 01: 14:38 01: 14:40 01: 14:40 01: 14:42 01: 14:42 01: 14:42 01: 14:45 01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:49 01: 14:50 01: 14:5					
01: 14:37 01: 14:38 01: 14:49 01: 14:41 01: 14:42 01: 14:43 01: 14:44 01: 14:45 01: 14:48 01: 14:49 01: 14:50 01: 14:52 01: 14:52 01: 14:54 01: 14:55 01: 14:56 01: 14:56 01: 14:59 01: 14:56 01: 14:59 01: 14:59 01: 14:59 01: 14:59 01: 14:59 01: 14:59			•		
14:38 01: 14:38 01: 14:40 01: 14:40 01: 14:41 01: 14:42 01: 14:42 01: 14:44 01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:49 01: 14:51 01: 14:51 01: 14:55 01: 14:55 01: 14:55 01: 14:56 01: 14:58 01: 14:59 01: 14:58 01: 14:59 01: 14:58 01: 14:59 01: 14:5					
01: 14:39 01: 14:40 10: 14:41 01: 14:43 01: 14:43 01: 14:44 01: 14:45 01: 14:47 01: 14:49 01: 14:50 01: 14:51 01: 14:52 01: 14:56 01: 14:56 01: 14:56 01: 14:56 01: 14:56 01: 14:56 01: 14:59					
01: 14:40					
01: 14:41 01: 14:42 01: 14:43 01: 14:44 01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:50 01: 14:51 01: 14:52 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59				. Use UHT to deploy thermal shroud	D15 8
01: 14:42 01: 14:43 01: 14:44 01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:49 01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59				. The case of the depart, sherman shroud.	1 13.0
01: 14:44 01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59			01:14:42		
01: 14:45 01: 14:46 01: 14:47 01: 14:48 01: 14:49 01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59		·			
01: 14:46 01: 14:47 01: 14:48 01: 14:49 01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:53 01: 14:54 01: 14:55 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59	 4				
01: 14:47 01: 14:48 01: 14:49 01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59	11				
01: 14:48 01: 14:49 01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59					
01:14:49 01:14:50 01:14:51 01:14:52 01:14:53 01:14:54 01:14:55 01:14:55 01:14:56 01:14:57 01:14:58 01:14:59		·		•	
01: 14:50 01: 14:51 01: 14:52 01: 14:53 01: 14:54 01: 14:55 01: 14:56 01: 14:57 01: 14:58 01: 14:59					
01:14:51 01:14:52 01:14:53 01:14:54 01:14:55 01:14:56 01:14:57 01:14:58 01:14:59					
01:14:52 01:14:53 01:14:54 01:14:55 01:14:56 01:14:57 01:14:58 01:14:59					
01:14:53 01:14:54 01:14:55 01:14:56 01:14:57 01:14:58 01:14:59					
01:14:54 01:14:55 01:14:56 01:14:57 01:14:58 01:14:59			•		
01:14:56 01:14:57 01:14:58 01:14:59			01:14:54		
01:14:57 01:14:58 01:14:59			01:14:55		
01:14:58 01:14:59					
01:14:59					
01:15:00					
			01:15:00		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C12. 0	DRILL SET-UP (On LRV)	01:15:00 01:15:01 01:15:02 01:15:03 01:15:04 01:15:05 01:15:06 01:15:07 01:15:08 01:15:09 01:15:10 01:15:11 01:15:12 01:15:13 01:15:14	LEVEL & ALIGN PSE Observing bubble level, use UHT to level PSE.	P16.0 P16.1
2		01:15:16 01:15:17 01:15:18 01:15:19 01:15:20 01:15:21 01:15:22 01:15:23 01:15:24 01:15:25 01:15:26 01:15:27 01:15:28 01:15:29 01:15:30	. Observe sun compass, report alignment.	P16. 2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:15:30 01:15:31 01:15:32 01:15:33 01:15:34	. Tether UHT to EMU.	P16.3
113		01:15:34 01:15:35 01:15:36 01:15:37 01:15:38 01:15:39 01:15:40 01:15:41 01:15:42 01:15:43 01:15:44 01:15:45 01:15:45 01:15:46 01:15:49 01:15:50 01:15:51 01:15:52 01:15:53 01:15:54 01:15:55 01:15:59 01:15:59 01:15:59 01:15:59	. Return to Pkg #1	P16. 4

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
Live de la constantina della constantina della c		01:16:00 01:16:01 01:16:02 01:16:03 01:16:04	SWS DEPLOYMENT . Unstow tethered UHT.	P17.0 P17.1
114		01:16:05 01:16:06 01:16:07 01:16:08 01:16:09 01:16:10 01:16:11 01:16:12 01:16:13 01:16:14 01:16:15 01:16:16 01:16:17 01:16:18 01:16:19 01:16:20 01:16:21 01:16:22 01:16:23 01:16:24 01:16:25 01:16:25 01:16:27 01:16:28 01:16:29 01:16:30	. Use UHT to release four Boyd Bolts on SWS.	P17. 2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:16:30 01:16:31 01:16:32 01:16:33 01:16:34 01:16:35 01:16:36 01:16:37 01:16:38 01:16:39	. Engage UHT in SWS carry socket.	P17.3
115		01:16:40 01:16:41 01:16:42 01:16:43 01:16:44 01:16:45 01:16:46 01:16:47 01:16:48 01:16:49 01:16:50 01:16:51 01:16:52 01:16:53 01:16:54	. Use UHT to remove SWS from sunshield and to carry 13 feet North of Pkg #1.	P17.4
		01:16:55 01:16:56 01:16:57 01:16:58 01:16:59 01:17:00	Emplace SWS on lunar surface & align experiment	P17.5

	No.
01: 17:06 01: 17:07 01: 17:08 01: 17:09	P17.6

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
117		01:17:30 01:17:31 01:17:32 01:17:33 01:17:34 01:17:35 01:17:36 01:17:37 01:17:38 01:17:39 01:17:40 01:17:41 01:17:42 01:17:43 01:17:44 01:17:45 01:17:46 01:17:47 01:17:48 01:17:48 01:17:50 01:17:51 01:17:52 01:17:53 01:17:54 01:17:55 01:17:55 01:17:56 01:17:57 01:17:58 01:17:59 01:18:00			

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
118		01:18:00 01:18:01 01:18:02 01:18:03 01:18:04 01:18:05 01:18:06 01:18:08 01:18:09 01:18:10 01:18:11 01:18:12 01:18:13 01:18:14 01:18:15 01:18:16 01:18:17 01:18:18 01:18:19 01:18:20 01:18:21 01:18:22 01:18:23 01:18:24 01:18:25 01:18:26 01:18:27 01:18:28 01:18:29 01:18:29		

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		ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
	,			
		01:18:30]
		01: 18 :31		
		01: 18 :32		
		01: 18 :33		
		01: 18 :34		
		01: 18 :35		j
		01: 18 :36	·	
		01: 18 :37		
		01: 18 :38		
		01: 18 :39		
		01: 18:40		
		01: 18:41		
		01: 18:42		
		01: 18:43		l
H		01: 18 :44		
119		01: 18 :45		
		01: 18 :46		1
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		01: 18 :48		
		01: 18 :49		
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		01: 18 :59		
		01:19 :00		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
120		01:19 :00 01:19 :01 01:19 :02 01:19 :03 01:19 :04 01:19 :05 01:19 :06 01:19 :07 01:19 :08 01:19 :09 01:19 :10 01:19 :11 01:19 :12 01:19 :13 01:19 :14 01:19 :15 01:19 :16 01:19 :17 01:19 :18 01:19 :19 01:19 :20 01:19 :21 01:19 :22 01:19 :23 01:19 :24 01:19 :25 01:19 :25 01:19 :26 01:19 :27 01:19 :28 01:19 :29 01:19 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
121		01:19 :30 01:19 :31 01:19 :32 01:19 :33 01:19 :34 01:19 :35 01:19 :36 01:19 :38 01:19 :39 01:19 :40 01:19 :41 01:19 :42 01:19 :42 01:19 :43 01:19 :44 01:19 :45 01:19 :46 01:19 :47 01:19 :48 01:19 :49 01:19 :50 01:19 :51 01:19 :52 01:19 :53 01:19 :55 01:19 :56 01:19 :57 01:19 :58 01:19 :59 01:20 :00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
te <u>atra</u>		01:20 :00 01:20 :01 01:20 :02 01:20 :03 01:20 :04 01:20 :05	LSM OFFLOAD . Use UHT to release two Boydbolts on LSM.	P18.0 P18.1
122		01:20 :06 01:20 :07 01:20 :08 01:20 :09 01:20 :10 01:20 :11 01:20 :12 01:20 :13 01:20 :14 01:20 :15 01:20 :16 01:20 :17 01:20 :18 01:20 :19 01:20 :20 01:20 :21	. Stow UHT in Pkg #1 temporary stowage socket.	P18.2
		01:20 :23 01:20 :24 01:20 :25 01:20 :26 01:20 :27 01:20 :28 01:20 :29 01:20 :30		

		ALSEP/A-2		
Task No.	Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
123		01:20:30 01:20:31 01:20:32 01:20:33 01:20:34 01:20:35 01:20:36 01:20:37 01:20:38 01:20:39 01:20:40 01:20:41 01:20:42 01:20:42 01:20:44 01:20:45 01:20:45 01:20:46 01:20:47 01:20:48 01:20:49 01:20:49 01:20:50 01:20:50 01:20:51 01:20:52 01:20:55 01:20:55 01:20:55 01:20:56 01:20:57 01:20:58 01:20:59 01:21:00	. Pull handle of upper support bracket fully upward & then forward. . Continue to lift upper support bracket/brace assy clear of LSM & discard. . Grasp lift-off handle, pull fully upward & remove LSM from sunshield.	P18. 3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:21 :00 01:21 :01 01:21 :02 01:21 :03 01:21 :04 01:21 :05 01:21 :06 01:21 :07 01:21 :08 01:21 :09 01:21 :10	. Walk to Northwest corner of C/S	P18.6
124		01:21 :11 01:21 :12 01:21 :13 01:21 :14 01:21 :15 01:21 :16 01:21 :17 01:21 :18 01:21 :19 01:21 :20 01:21 :21 01:21 :21	. Grasp carry handle and rotate LSM to the vertical position.	P18.7
		01:21 :22 01:21 :23 01:21 :24 01:21 :25 01:21 :26 01:21 :27 01:21 :28 01:21 :29 01:21 :30	. Grasp handle of lower part of upper support bracket, pull free of LSM & discard.	P18.8

		ALSEP/A-2		
Task No.	Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
		01:21 :30 01:21 :31 01:21 :32 01:21 :33 01:21 :34 01:21 :35 01:21 :36 01:21 :37 01:21 :38 01:21 :38 01:21 :39 01:21 :40 01:21 :40	. Lower LSM to lunar surface.	P18.9
125		01:21 :43 01:21 :44 01:21 :45 01:21 :46 01:21 :47 01:21 :48 01:21 :49 01:21 :50 01:21 :51 01:21 :52 01:21 :53 01:21 :54 01:21 :55 01:21 :56 01:21 :57 01:21 :58 01:21 :59 01:22 :00	. Return to C/S.	P18.10

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
126		01:22 :00 01: 22 :01 01: 22 :02 01: 22 :03 01: 22 :04 01: 22 :05 01: 22 :06 01: 22 :07 01: 22 :08 01: 22 :09 01: 22 :10 01: 22 :11 01: 22 :12 01: 22 :13 01: 22 :14 01: 22 :15 01: 22 :16 01: 22 :17 01: 22 :18 01: 22 :19 01: 22 :19 01: 22 :20 01: 22 :21 01: 22 :20 01: 22 :21 01: 22 :25 01: 22 :25 01: 22 :25 01: 22 :26 01: 22 :27 01: 22 :28 01: 22 :29 01: 22 :29 01: 22 :29		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		·		
		01:22 :30		
		01: 22 :31		
		01: 22 :32		
		01: 22 :33		
		01: 22 :34		
		01: 22 :35		
		01: 22 :36		
		01: 22 :37		
		01: 22 :38		
		01: 22 :39		
		01: 22 :40		
		01: 22 :41		
		01: 22 :42		
		01: 22 :43		
		01: 22 :44		
		01: 22 :45 01: 22 :46		
		01: 22 :46		
		01: 22 :48		
		01: 22 :49		
		01: 22 :50		
		01: 22 :51		
		01: 22 :52		
		01: 22 :53		
		01: 22 :54		
		01: 22 :55		
		01: 22 :56		
		01: 22 :57		
		01: 22 :58		
		01: 22 :59		
		01:23 :00		
•				

•	Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
***			01:23 :00 01:23 :01 01:23 :02 01:23 :03 01:23 :04 01:23 :05 01:23 :06 01:23 :07 01:23 :08 01:23 :09 01:23 :10 01:23 :11 01:23 :12 01:23 :13	Erect Sunshield Observing bubble level & sun compass, use UHT to level & align C/S.	P19.0 P19.1
128			01: 23 :14 01: 23 :15 01: 23 :16 01: 23 :17 01: 23 :18 01: 23 :19	. Disengage UHT from Pkg. #1.	P19.2
			01: 23 : 20 01: 23 : 21 01: 23 : 22 01: 23 : 23 01: 23 : 24 01: 23 : 25 01: 23 : 26 01: 23 : 27 01: 23 : 28 01: 23 : 29 01: 23 : 30	. Use UHT to release five Boydbolts on North side of C/S.	P19.3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
129		01:23 :30 01: 23 :31 01: 23 :32 01: 23 :33 01: 23 :34 01: 23 :35 01: 23 :36 01: 23 :37 01: 23 :38 01: 23 :39 01: 23 :40 01: 23 :41 01: 23 :42 01: 23 :43 01: 23 :45 01: 23 :45 01: 23 :46 01: 23 :47 01: 23 :48 01: 23 :49 01: 23 :50 01: 23 :51 01: 23 :52 01: 23 :55 01: 23 :55 01: 23 :55 01: 23 :59 01: 23 :59 01: 23 :59 01: 23 :59 01: 23 :59		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tasl No.
130		01:24 :00 01:24 :01 01:24 :02 01:24 :03 01:24 :04 01:24 :05 01:24 :06 01:24 :07 01:24 :08 01:24 :10 01:24 :11 01:24 :12 01:24 :13 01:24 :14 01:24 :15 01:24 :15 01:24 :16 01:24 :17 01:24 :18 01:24 :19 01:24 :20 01:24 :21 01:24 :21 01:24 :22 01:24 :23 01:24 :24 01:24 :25 01:24 :25 01:24 :26 01:24 :27 01:24 :28 01:24 :29 01:24 :29 01:24 :30	. Use UHT to release Boydbolt on SIDE/CCIG connector. Use UHT to release two Boydbolts on East side of C/S.	P19.4

		ALSEP/A-2		
Task No.	Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
131		01:24:30 01:24:31 01:24:32 01:24:33 01:24:34 01:24:35 01:24:36 01:24:38 01:24:39 01:24:40 01:24:41 01:24:42 01:24:42 01:24:44 01:24:45 01:24:45 01:24:46 01:24:47 01:24:48 01:24:49 01:24:50 01:24:51 01:24:50 01:24:55 01:24:55 01:24:55 01:24:55 01:24:55 01:24:59 01:24:59 01:24:59	. Use UHT to release two Boydbolts on SE side of C/S	P19.6

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tasi No.
		01:25 :00 01:25 :01 01:25 :02 01:25 :03 01:25 :04	. Use UHT to secure rear thermal cover pull ring & separate it from back support structure.	P19.
		01:25:04 01:25:05 01:25:06 01:25:07 01:25:08 01:25:09	. Pull lanyard to release two pull pins & to begin cover removal.	P19.
		01:25 :09 01:25 :10 01:25 :11 01:25 :12 01:25 :13 01:25 :14 01:25 :15 01:25 :16 01:25 :17 01:25 :18 01:25 :19 01:25 :20 01:25 :21 01:25 :21 01:25 :22 01:25 :23 01:25 :24 01:25 :25 01:25 :25 01:25 :26 01:25 :27 01:25 :28 01:25 :29	. Allow slack in cable in order to release cover & discard.	P19.
		01:25 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
133		01:25:30 01:25:31 01:25:32 01:25:33 01:25:34 01:25:35 01:25:36 01:25:37 01:25:38 01:25:39 01:25:40 01:25:41 01:25:42 01:25:43 01:25:44 01:25:45 01:25:45 01:25:46 01:25:47 01:25:48 01:25:49 01:25:49 01:25:50 01:25:51 01:25:52 01:25:53 01:25:54 01:25:55 01:25:55 01:25:55 01:25:56 01:25:57 01:25:58 01:25:59 01:25:59	 Use UHT to lower rear curtain to lunar surface. Use UHT to release antenna cable restraint & to deploy cable. 	P19.11

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
134		01:26 :00 01:26 :01 01:26 :02 01:26 :03 01:26 :04 01:26 :05 01:26 :06 01:26 :07 01:26 :08 01:26 :10 01:26 :11 01:26 :12 01:26 :13 01:26 :14 01:26 :15 01:26 :16 01:26 :17 01:26 :18 01:26 :19 01:26 :20 01:26 :21 01:26 :22 01:26 :23 01:26 :24 01:26 :25 01:26 :25 01:26 :26 01:26 :27 01:26 :28 01:26 :29 01:26 :30	. Use UHT to release three Boydbolts on South side of C/S.	P19. 17

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
. 135		01:26:30 01:26:31 01:26:32 01:26:33 01:26:34 01:26:35 01:26:38 01:26:39 01:26:40 01:26:41 01:26:42 01:26:43 01:26:44 01:26:45 01:26:45 01:26:48 01:26:49 01:26:49 01:26:50 01:26:50 01:26:51 01:26:55 01:26:55 01:26:55 01:26:55 01:26:59 01:26:59 01:27:00	. Use UHT to release four Boydbolts on West side of C/S.	P19. 13

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:27:00 01:27:01 01:27:02 01:27:03 01:27:04 01:27:05 01:27:06 01:27:07 01:27:08 01:27:09 01:27:10 01:27:11 01:27:12 01:27:13 01:27:14 01:27:15 01:27:16 01:27:16 01:27:17 01:27:18 01:27:19 01:27:20 01:27:21	. Walk South side of C/S.	P19. 1
		01:27 :23 01:27 :24 01:27 :25 01:27 :26 01:27 :27 01:27 :28 01:27 :29 01:27 :30	. Check for release of sunshield from primary structure.	P19.1

Task	Commander	ALSEP/A-2 Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
C12.1	. Return to first bore hole site.	01:27:30 01:27:31 01:27:32 01:27:33 01:27:34 01:27:35 01:27:36 01:27:38 01:27:39 01:27:40 01:27:41 01:27:42 01:27:45 01:27:45 01:27:45 01:27:46 01:27:48 01:27:48 01:27:49 01:27:49 01:27:50 01:27:50 01:27:50 01:27:50 01:27:50 01:27:50 01:27:50	. Use UHT to release two Boydbolts on Antenna. . Use UHT to release two south most, interior sunshield Boydbolts.	P19.16

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:28 :00 01:28 :01 01:28 :02 01:28 :03 01:28 :04 01:28 :05 01:28 :06 01:28 :07 01:28 :08 01:28 :10 01:28 :11 01:28 :12 01:28 :13 01:28 :14 01:28 :15 01:28 :16 01:28 :17 01:28 :18 01:28 :19 01:28 :19 01:28 :20 01:28 :21 01:28 :22 01:28 :23 01:28 :24 01:28 :25 01:28 :25 01:28 :26 01:28 :27 01:28 :28 01:28 :29 01:28 :29 01:28 :29	. Use UHT to release center Boydbolt. . Use UHT to control sunshield deployment.	P19.1

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·	· · · · · · · · · · · · · · · · · · ·	ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
!	HFE PROBE #1	01:28 :30	. Remove UHT from center guide cup	P19.20
C13.0	Implant Drill Stem #1	01: 28:31	and stow.	1 - 7. 20
		01: 28:32		
:		01: 28:33	į	
		01: 28:34		
		01: 28:35	. Complete sunshield deployment,	P19.21
		01: 28:36	using manual assist.	/ ·
		01: 28:37		
		01: 28:38		
		01: 28:39		
		01: 28:40		
		01: 28:41		
		01: 28:42		
		01: 28:43		
139		01: 28:44		
39		01: 28:45		
		01: 28:46		
		01: 28:47		
		01: 28:48		
		01: 28:49		
		01: 28:50		
		01: 28:51		
		01: 28:52		
		01: 28:53 01: 28:54		
		01: 28 :55		
		01: 28:56		
		01: 28 :57		
		01: 28 :58		
		01: 28 :59		ļ
		01:29 :00		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
140		01:29 :00 01:29 :01 01:29 :02 01:29 :03 01:29 :04 01:29 :05 01:29 :06 01:29 :07 01:29 :08 01:29 :10 01:29 :11 01:29 :12 01:29 :13 01:29 :14 01:29 :15 01:29 :15 01:29 :16 01:29 :17 01:29 :18 01:29 :19 01:29 :19 01:29 :20 01:29 :21 01:29 :21 01:29 :22 01:29 :23 01:29 :24 01:29 :25 01:29 :26 01:29 :27 01:29 :28	. Check for proper deployment of side curtains, remove & discard three sunshield curtain covers.	P19.22
		01:29 :29 01:29 :30		

		ALSEP/A-2		
Task No.	Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
141		01:29:30 01:29:31 01:29:32 01:29:33 01:29:34 01:29:35 01:29:36 01:29:37 01:29:38 01:29:39 01:29:40 01:29:41 01:29:41 01:29:42 01:29:45 01:29:45 01:29:46 01:29:47 01:29:48 01:29:49 01:29:49	 Use UHT to attach rear & front of right side curtain to C/S. Use UHT to attach front of left side curtain to C/S. 	P19.24
		01:29:51 01:29:52 01:29:53 01:29:54 01:29:55 01:29:56 01:29:57 01:29:58 01:29:59 01:30:00	. Use UHT to attach rear thermal curtain to side curtains.	P19.26

•	Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
. 142			01:30 :00 01:30 :01 01:30 :02 01:30 :03 01:30 :04 01:30 :05 01:30 :06 01:30 :07 01:30 :08 01:30 :09 01:30 :10 01:30 :11 01:30 :12 01:30 :13 01:30 :14 01:30 :15 01:30 :16 01:30 :17 01:30 :18 01:30 :19 01:30 :20 01:30 :21 01:30 :22 01:30 :22 01:30 :25 01:30 :25	. Observing sun compass & bubble level, check alignment & leveling. . Stow UHT. . Walk to subpallet.	P19.27
			01:30 :27 01:30 :28 01:30 :29 01:30 :30	ERECT ANTENNA	P20.0

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:30:30 01:30:31 01:30:32 01:30:33 01:30:34	. Retrieve antenna mast from subpallet.	P20.1
		01:30:35 01:30:36 01:30:37 01:30:38 01:30:39	. Return to C/S	P20.2
143		01:30:40 01:30:41 01:30:42 01:30:43 01:30:44 01:30:45 01:30:46 01:30:47 01:30:48 01:30:49 01:30:50 01:30:51 01:30:52 01:30:53 01:30:54 01:30:55 01:30:56 01:30:57 01:30:58 01:30:59 01:31:00	. Install antenna mast on C/S.	P20.3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
144		01:31 :00 01: 31 :01 01: 31 :02 01: 31 :03 01: 31 :04 01: 31 :05 01: 31 :06 01: 31 :07 01: 31 :08 01: 31 :10 01: 31 :11 01: 31 :12 01: 31 :13 01: 31 :14 01: 31 :15 01: 31 :16 01: 31 :17 01: 31 :18 01: 31 :19 01: 31 :19 01: 31 :20 01: 31 :21 01: 31 :22 01: 31 :22 01: 31 :24 01: 31 :25 01: 31 :26 01: 31 :26 01: 31 :27 01: 31 :28 01: 31 :29 01: 31 :29 01: 31 :30	. Walk to subpallet. . Unstow UHT from EMU. . Use UHT to release two Boydbolts on aiming mechanism housing.	P20.4 P20.5

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
145		01:31:30 01:31:31 01:31:32 01:31:33 01:31:34 01:31:35 01:31:38 01:31:39 01:31:40 01:31:41 01:31:42 01:31:43 01:31:44 01:31:45 01:31:46 01:31:47 01:31:48 01:31:49 01:31:50 01:31:51 01:31:52 01:31:53 01:31:55 01:31:55 01:31:56 01:31:57 01:31:58 01:31:59 01:32:00	 Engage UHT in aiming mechanism housing carry socket. Use UHT to remove aiming mechanism housing from subpallet & return to C/S. Remove cover from aiming mechanism housing & discard. 	P20.7 P20.8

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:32 :00 01:32 :01 01:32 :02 01:32 :03 01:32 :04 01:32 :05 01:32 :06 01:32 :07 01:32 :08 01:32 :09 01:32 :10 01:32 :11 01:32 :12 01:32 :13	. Install aiming mechanism on antenna mast.	P20.10
146		01:32:14 01:32:15 01:32:16 01:32:17 01:32:18 01:32:19	. Disengage UHT from aiming mechanism housing.	P20.11
		01:32:20 01:32:21 01:32:22 01:32:23 01:32:24	. Stow UHT.	P20. 12
		01:32:25 01:32:26 01:32:27 01:32:28 01:32:29 01:32:30	. Remove aiming mechanism housing & packaging & discard.	P20.13

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
147		01:32 :30 01:32 :31 01:32 :33 01:32 :34 01:32 :35 01:32 :36 01:32 :37 01:32 :38 01:32 :39 01:32 :40 01:32 :41 01:32 :42 01:32 :44 01:32 :45 01:32 :45 01:32 :46 01:32 :47 01:32 :48 01:32 :49 01:32 :49 01:32 :50 01:32 :51 01:32 :55 01:32 :55 01:32 :55 01:32 :55 01:32 :55 01:32 :56 01:32 :57 01:32 :58 01:32 :59 01:33 :59 01:33 :59	Rotate antenna tie-down brackets, retrieve antenna & install on aiming mechanism.	P20.14

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:33 :00 01:33 :01 01:33 :02 01:33 :03	LEVEL & ALIGN ANTENNA	P21.0
		01:33 :04 01:33 :05 01:33 :06 01:33 :07 01:33 :08 01:33 :10 01:33 :11 01:33 :12 01:33 :13 01:33 :14 01:33 :15 01:33 :16 01:33 :16 01:33 :17 01:33 :18 01:33 :19 01:33 :20 01:33 :21 01:33 :22 01:33 :22 01:33 :23 01:33 :24 01:33 :25 01:33 :25 01:33 :27 01:33 :28 01:33 :29 01:33 :29 01:33 :30	. Observing bubble level, adjust leveling knobs.	P21. I

Task	Commander	ALSEP/A-2 Time (Cumulative)	LM Pilot	Task
No.	Activity		Activity	No.
149		01:33:30 01:33:31 01:33:32 01:33:33 01:33:34 01:33:35 01:33:36 01:33:38 01:33:40 01:33:41 01:33:42 01:33:43 01:33:44 01:33:45 01:33:45 01:33:46 01:33:47 01:33:48 01:33:49 01:33:50 01:33:51 01:33:51 01:33:55 01:33:55 01:33:55 01:33:55 01:33:55 01:33:59 01:33:59 01:33:59	. Observing sun compass, adjust alignment knob.	P21.2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tasl No.
150		01:34 :00 01:34 :01 01:34 :02 01:34 :03 01:34 :04 01:34 :05 01:34 :06 01:34 :07 01:34 :08 01:34 :10 01:34 :11 01:34 :12 01:34 :13 01:34 :14 01:34 :15 01:34 :16 01:34 :17 01:34 :18 01:34 :19 01:34 :20 01:34 :21 01:34 :22 01:34 :23 01:34 :24 01:34 :25 01:34 :25 01:34 :26 01:34 :27 01:34 :28 01:34 :29 01:34 :29 01:34 :29	Enter Azimuth offset.	P21.3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
151		01:34:30 01:34:31 01:34:32 01:34:33 01:34:34 01:34:35 01:34:36 01:34:38 01:34:39 01:34:40 01:34:41 01:34:42 01:34:42 01:34:45 01:34:45 01:34:46 01:34:47 01:34:48 01:34:49 01:34:49 01:34:50 01:34:51 01:34:52 01:34:53 01:34:54 01:34:55 01:34:55 01:34:56 01:34:56 01:34:59 01:35:00	. Enter elevation offset.	P21. 4

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
152		01:35 :00 01:35 :01 01:35 :02 01:35 :03 01:35 :04 01:35 :05 01:35 :06 01:35 :07 01:35 :08 01:35 :09 01:35 :10 01:35 :11 01:35 :12 01:35 :13 01:35 :14 01:35 :15 01:35 :16 01:35 :17 01:35 :18 01:35 :19 01:35 :20 01:35 :21 01:35 :22 01:35 :23 01:35 :24 01:35 :25 01:35 :25 01:35 :26 01:35 :27 01:35 :28 01:35 :29 01:35 :29 01:35 :29	Recheck level and walk to SIDE/CCIG.	P21.5

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Ta No	ask o.
153		01:35:30 01:35:31 01:35:32 01:35:33 01:35:34 01:35:35 01:35:36 01:35:38 01:35:39 01:35:40 01:35:41 01:35:42 01:35:43 01:35:44 01:35:45 01:35:45 01:35:46 01:35:47 01:35:48 01:35:49 01:35:50 01:35:50 01:35:50 01:35:50 01:35:50 01:35:55 01:35:55 01:35:55 01:35:55 01:35:55 01:35:56 01:35:57 01:35:58 01:35:59 01:36:00			

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:36 :00 01:36 :01 01:36 :02 01:36 :03 01:36 :04 01:36 :05 01:36 :06 01:36 :07 01:36 :08 01:36 :09 01:36 :10 01:36 :11 01:36 :12 01:36 :13 01:36 :14 01:36 :15 01:36 :15 01:36 :16 01:36 :17 01:36 :18 01:36 :19 01:36 :20 01:36 :21 01:36 :22 01:36 :23 01:36 :24 01:36 :25 01:36 :25		
		01:36 :27 01:36 :28 01:36 :29 01:36 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
155		01:36:30 01:36:31 01:36:32 01:36:33 01:36:34 01:36:35 01:36:36 01:36:39 01:36:40 01:36:41 01:36:42 01:36:43 01:36:44 01:36:45 01:36:46 01:36:47 01:36:48 01:36:49 01:36:51 01:36:52 01:36:53 01:36:55 01:36:55 01:36:55 01:36:57 01:36:58 01:36:59 01:37:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
156		01:37 :00 01:37 :01 01:37 :02 01:37 :03 01:37 :04 01:37 :05 01:37 :06 01:37 :07 01:37 :08 01:37 :10 01:37 :11 01:37 :12 01:37 :12 01:37 :14 01:37 :15 01:37 :15 01:37 :16 01:37 :17 01:37 :18 01:37 :19 01:37 :20 01:37 :21 01:37 :22 01:37 :23		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
157		01:37:30 01:37:31 01:37:32 01:37:33 01:37:34 01:37:35 01:37:36 01:37:37 01:37:38 01:37:40 01:37:41 01:37:42 01:37:43 01:37:45 01:37:45 01:37:46 01:37:47 01:37:48 01:37:49 01:37:50 01:37:50 01:37:50 01:37:51 01:37:55 01:37:55 01:37:55 01:37:55 01:37:55 01:37:55 01:37:59 01:37:59 01:37:59		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
158		01:38 :00 01:38 :01 01:38 :02 01:38 :03 01:38 :04 01:38 :05 01:38 :06 01:38 :07 01:38 :08 01:38 :10 01:38 :11 01:38 :12 01:38 :13 01:38 :14 01:38 :15 01:38 :16 01:38 :17 01:38 :18 01:38 :19 01:38 :20 01:38 :21 01:38 :22 01:38 :22 01:38 :23 01:38 :24 01:38 :25 01:38 :25 01:38 :26 01:38 :27 01:38 :28 01:38 :29 01:38 :29 01:38 :29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tasl No.	
159		01:38:31 01:38:32 01:38:33 01:38:34 01:38:35 01:38:36 01:38:37 01:38:39 01:38:40 01:38:41 01:38:42 01:38:42 01:38:45 01:38:45 01:38:46 01:38:46 01:38:47 01:38:48 01:38:49 01:38:49 01:38:50 01:38:51 01:38:51 01:38:55 01:38:55 01:38:55 01:38:55 01:38:55 01:38:55 01:38:55 01:38:55 01:38:56 01:38:57 01:38:59 01:38:59			

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
160		01:39:00 01:39:01 01:39:02 01:39:03 01:39:04 01:39:05 01:39:06 01:39:08 01:39:09 01:39:10 01:39:11 01:39:12 01:39:13 01:39:14 01:39:15 01:39:16 01:39:17 01:39:18 01:39:19 01:39:20 01:39:20 01:39:21 01:39:22 01:39:23 01:39:24 01:39:25 01:39:25 01:39:26 01:39:27 01:39:28 01:39:29 01:39:30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
161		01:39:30 01:39:31 01:39:32 01:39:33 01:39:34 01:39:35 01:39:36 01:39:37 01:39:38 01:39:40 01:39:41 01:39:42 01:39:43 01:39:44 01:39:45 01:39:46 01:39:47 01:39:48 01:39:49 01:39:50 01:39:50 01:39:50 01:39:50 01:39:50 01:39:50 01:39:55 01:39:55 01:39:55 01:39:55 01:39:55 01:39:56 01:39:57 01:39:58 01:39:59 01:40:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas
		01:40 :00		
		01:40:01		ļ
		01:40:02		
		01:40 :03		
		01:40 :04		
		01:40:05		
1		01:40 :06		
		01:40 :07		
		01:40 :08		
		01:40 :09		
		01:40 :10		1
		01:40 :11		1
		01:40 :12		
1		01:40 :13		
-		01:40 :14		
		01:40 :15		· ·
		01:40 :16		1
[01:40 :17		
ł		01:40 :18		
		01:40 :19		
		01:40 :20		
		01:40 :21		
		01:40 :22		
1		01:40 :23		
1		01:40 :24		
		01:40 :25		
		01:40 :26		
		01:40 :27		
		01:40 :28		
		01:40 :29		
1		01:40 :30		

)
Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
163		01:40 :30 01:40 :31 01:40 :32 01:40 :33 01:40 :34 01:40 :35 01:40 :36 01:40 :37 01:40 :38 01:40 :40 01:40 :41 01:40 :42 01:40 :43 01:40 :44 01:40 :45 01:40 :45 01:40 :46 01:40 :49 01:40 :49 01:40 :50 01:40 :50 01:40 :51 01:40 :52 01:40 :53 01:40 :55 01:40 :55	SIDE DEPLOYMENT EMPLACE SIDE . Unstow tethered UHT. . Use UHT to lift SIDE/CCIG, walk 55 feet North East of C/S and lower SIDE/CCIG to lunar surface.	P22. 0 P22. 1 P22. 2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
164		01:41 :00 01:41 :01 01:41 :02 01:41 :03 01:41 :04 01:41 :05 01:41 :06 01:41 :07 01:41 :08 01:41 :10 01:41 :11 01:41 :12 01:41 :13 01:41 :14 01:41 :15 01:41 :16 01:41 :17 01:41 :18 01:41 :19 01:41 :20 01:41 :21 01:41 :21 01:41 :22 01:41 :23 01:41 :24 01:41 :25 01:41 :26 01:41 :27 01:41 :28 01:41 :29 01:41 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
165		01:41:30 01:41:31 01:41:32 01:41:33 01:41:34 01:41:35 01:41:36 01:41:39 01:41:40 01:41:41 01:41:42 01:41:42 01:41:45 01:41:45 01:41:45 01:41:46 01:41:47 01:41:48 01:41:49 01:41:50 01:41:51 01:41:52 01:41:53 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55 01:41:55	. Disengage UHT from SIDE/CCIG . Engage UHT in ground screen socket . Rotate UHT CCW and lift ground screen from ground screen tube.	P22. 3 P22. 4 Pββ. 5

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot - Activity	Tas No
		01:42 :00		
		01:42:01		
		01:42:02		1
		01:42 :03 01:42 :04		i
		01:42 :04	. Check ground screen cable deployment.	P22
		01:42 :06	. Check ground screen cable deployment.	1 722
		01:42:07		
		01:42 :08		l
		01:42 :09		
		01:42 :10	. Emplace ground screen on lunar surface.	P22
		01:42 :11		
		01:42 :12		1
		01:42 :13		j
1		01:42 :14		
I		01:42 :15		
		01:42 :16		
		01:42 :17		
		01:42 :18		1
1		01:42 :19	D'an annual annual	P22
		01:42 :20 01:42 :21	. Disengage UHT from ground screen.	PZZ
		01:42 :21		
į		01:42 :23		}
1		01:42 :24		
		01:42 :25		
		01:42 :26		
		01:42 :27		
		01:42 :28		l
į		01:42 :29		
		01:42 :30		
Ì				
		1		
Į		1	*	J

Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
INSERT PROBE #1 . Unstow UHT from EMU.	01:42:30 01:42:31 01:42:32 01:42:33		
. Use UHT handle to hook HFE probe pkg. carry handle.	01:42:35 01:42:36 01:42:37 01:42:38	. Engage UHT in SIDE/CCIG carry socket.	P22. 9
. Use UHT to lift HFE probe package from lunar surface.	01:42:40 01:42:41 01:42:42 01:42:43	. Use UHT to lift SIDE/CCIG.	P22.10
. Grasp HFE probe pkg. carry strap and stow UHT on EMU.	01:42:45 01:42:46 01:42:47 01:42:48		
. Remove remainder of probe cable from HFE probe package.	01:42:50 01:42:51 01:42:52 01:42:53 01:42:54 01:42:55 01:42:56 01:42:57 01:42:58 01:42:59 01:43:00	. Pull Lanyard labeled "2" to remove dust cover pull pin & discard Lanyard/pull pin.	P22. 11
	INSERT PROBE #1 . Unstow UHT from EMU. . Use UHT handle to hook HFE probe pkg. carry handle. . Use UHT to lift HFE probe package from lunar surface. . Grasp HFE probe pkg. carry strap and stow UHT on EMU. . Remove remainder of probe cable from	INSERT PROBE #1	Time Cumulative Cumulative Cumulative Cumulative

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C14.6	. Use pull ring to rotate sleeve containing probe forward and to remove probe assembly from sleeve.	01:43 :00 01:43 :01 01:43 :02 01:43 :03 01:43 :04 01:43 :05 01:43 :06 01:43 :07 01:43 :08	. Remove CCIG cover assembly and discard.	P22. 12
C14.7	. Lower HFE probe pkg to lunar surface.	01:43:10 01:43:11 01:43:12 01:43:13 01:43:14		
C14.8	. Grasp probe assembly.	01:43 :15 01:43 :16 01:43 :17 01:43 :18 01:43 :19		
C14.9	. Remove sail cloth retaining first probe end piece and discard sail cloth.	01:43 :20 01:43 :21 01:43 :22 01:43 :23 01:43 :24		
C14. 10	. Remove sail cloth retaining second probe end piece and discard sail cloth.	01:43 :24 01:43 :25 01:43 :26 01:43 :27 01:43 :28 01:43 :29 01:43 :30		

)
Task	Commander	ALSEP/A-2 Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
C14. 11	. Position lower sunshield over spring on upper probe section.	01:43:30 01:43:31		
		01:43:32 01:43:33 01:43:34		
C14. 12	. Unfold probe assembly.	01:43:35 01:43:36 01:43:37 01:43:38	. Use lanyard to remove CCIG from Stowage cavity.	P22. 13
C14. 13	. Insert probe into bore hold.	01:43:39 01:43:40 01:43:41		
169 C14. 14	. Unstow UHT from EMU.	01:43:42 01:43:43 01:43:44 01:43:45 01:43:46 01:43:47 01:43:48 01:43:50 01:43:51 01:43:52 01:43:53 01:43:55 01:43:55 01:43:56 01:43:57 01:43:58 01:43:59 01:44:00	. Emplace SIDE on ground screen with arrow oriented Westward.	P22. 14

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C14. 15	. Use UHT handle to hook HFE probe pkg.	01:44 :00		
~	carry handle.	01:44:01		
		01:44 :02 01:44 :03		
		01:44 :03		
C14. 16	. Use UHT to lift the HFE probe package	01:44 :05		
	from lunar surface.	01:44 :06		
		01:44 :07		
		01:44 :08		
		01:44 :09		
C14. 17	. Grasp HFE probe package carry strap	01:44 :10		
	and stow UHT on EMU.	01:44 :11		
		01:44 :12 01:44 :13		
		01:44 :14		
C14. 18	. Remove emplacement tool from holding	01:44 :15		
70	device.	01:44 :16		
		01:44 :17		
		01:44 :18		
G14 10	D. LITTE	01:44 :19		
C14. 19	Discard HFE probe pkg.	01:44 :20 01:44 :21		
		01:44 :21		
		01:44 :23		
		01:44 :24		
C14.20	. Extend emplacement tool to max. length &			
	verify full extension.	01:44 :26		
		01:44 :27		
		01:44 :28		
		01:44 :29 01:44 :30		
		V1;## :3U		
				{

Task	Commander	ALSEP/A-2 Time		<u>}</u>
No.	Activity	(Cumulative)	LM Pilot Activity	Task No.
C14. 21	. Place emplacement tool ''crow's foot'' between lower & upper sunshield.	01:44:30 01:44:31 01:44:32 01:44:33 01:44:34 01:44:35 01:44:36 01:44:37 01:44:38 01:44:39 01:44:40 01:44:41 01:44:41		
17 C14. 22	. Use emplacement tool to complete emplacement of probe in drill hole.	01:44:43 01:44:44 01:44:45 01:44:46 01:44:47 01:44:48 01:44:49 01:44:50 01:44:51 01:44:52 01:44:53 01:44:55 01:44:55 01:44:57 01:44:58 01:44:59 01:45:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C14. 23	. Observe emplacement tool marking report.	01:45 :00 01:45 :01 01:45 :02 01:45 :03 01:45 :04 01:45 :05 01:45 :06		
C14. 24	. Remove emplacement tool from drill hole.	01:45 :07 01:45 :08 01:45 :09 01:45 :10 01:45 :11 01:45 :12		
172		01:45 :13 01:45 :14 01:45 :15 01:45 :16 01:45 :17		
C14.25	. Use emplacement tool "crow's foot" to retrieve probe cable near upper sunshield.	01:45 :18 01:45 :19 01:45 :20 01:45 :21 01:45 :22 01:45 :23		
C14. 26	Place emplacement tool "crow's foot" around cable on far side of upper sunshield.	01:45 :24 01:45 :25 01:45 :26 01:45 :27 01:45 :28 01:45 :29 01:45 :30		

			1	The state of the s	1
·		ALSEP/A-2			
Task	Commander	Time	LM Pilot		Task
No.	Activity	(Cumulative)	Activity		No.
					
C14. 27	. Use emplacement tool to slide upper	01:45 :30			
	sunshield along probe cable and toward	01:45:31			1
	probe assembly.	01:45:32			
•		01:45:33			
		01:45:34			İ
		01:45:35			
		01:45:36			
		01:45:37			
		01:45:38			
C14. 28	Tipe and to	01:45 :39	_		
014. 20	. Use emplacement tool to ensure upper	01:45 :40			
	sunshield is fully deployed over drill hole.	01:45 :41			
		01:45 :42			
	,	01:45 :43			-
173		01:45 :44			
3		01:45 :45			
		01:45 :46			
		01:45 :47 01:45 :48			
		01:45 :49			ŀ
C14.29	. Remove emplacement tool "crow's foot"	01:45 :50	Ì		
	from probe cable.	01:45 :51			
	•	01:45 :52			
		01:45 :53			
		01:45 :54			
		01:45 :55			
		01:45 :56			
		01:45 :57			
		01:45 ;58			
		01:45 :59			
		01:46 :00			
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No
C14. 30	. Lower probe cable to lunar surface.	01:46 :00 01:46 :01 01:46 :02 01:46 :03 01:46 :04 01:46 :05 01:46 :06 01:46 :09 01:46 :10 01:46 :11 01:46 :12 01:46 :13 01:46 :14 01:46 :15 01:46 :15 01:46 :16 01:46 :17 01:46 :18 01:46 :19 01:46 :20 01:46 :21 01:46 :22 01:46 :23 01:46 :24 01:46 :25 01:46 :25 01:46 :25 01:46 :29 01:46 :29 01:46 :29		

Task No.	Commander Activity	Time	LM Pilot Activity	Task No.
	1	ALSEP/A-2 Time (Cumulative) 01:46:30 01:46:31 01:46:32 01:46:33 01:46:34 01:46:35 01:46:36 01:46:37 01:46:38 01:46:39 01:46:40 01:46:41 01:46:42 01:46:43 01:46:43 01:46:45 01:46:45 01:46:48 01:46:49 01:46:50 01:46:51 01:46:52 01:46:53 01:46:55 01:46:55 01:46:55 01:46:55 01:46:55 01:46:57 01:46:58 01:46:59 01:46:59	LM Pilot Activity DEPLOY CCIG . Use lanyard to lower CCIG to lunar surface. . Orient CCIG orifice Northward and release cable.	Task No. P23. 0 P23. 1

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tasl No.
	HOLE #2 SET-UP	01:47 :00	Level & Align Side	P24.
C15.0	Transfer Equipment	01:47:01		
	(Drill and emplacement tool)	01:47:02		
		01:47:03 01:47:04		
		01:47:04	. Observing bubble level, use UHT to	P24.
		01:47:06	level SIDE.	1 - 2 - 1.
		01:47:07		İ
		01:47:08		
		01:47:09		
C15.1	. Return to HFE electronics pkg.	01:47:10		
		01:47 :11		
		01:47 :12	·	[
		01:47 :13 01:47 :14		
		01:47 :14		ļ
		01:47 :16		
		01:47 :17		
		01:47 :18	, '	
		01:47 :19		
		01:47 :20	. Use UHT to align SIDE.	P24. 2
		01:47 :21		
		01:47 :22		
		01:47 :23		
		01:47 :24 01:47 :25		
		01:47 :26		
		01:47 :27		
		01:47 :28		
		01:47 :29		
		01:47 :30		
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				$ \cdot $

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
177		01:47:30 01:47:31 01:47:32 01:47:33 01:47:34 01:47:35 01:47:36 01:47:37 01:47:38 01:47:40 01:47:41 01:47:42 01:47:42 01:47:44 01:47:45 01:47:46 01:47:46 01:47:48 01:47:49 01:47:49 01:47:50 01:47:51 01:47:51 01:47:52 01:47:53 01:47:54 01:47:55 01:47:56 01:47:57 01:47:58 01:47:59 01:48:00	. Disengage UHT from SIDE and tether to EMU. . Walk to C/S.	P24. 4

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:48 :00 01:48 :01		
		01:48:02		
		01:48:03		
		01:48:04		
		01:48:05		
		01:48:06		
		01:48 :07 01:48 :08		
		01:48 :08		·
		01:48 :10		
		01:48 :11		1
		01:48 :12		
		01:48 :13		
_1]	01:48 :14		
1 78		01:48 :15		
		01:48 :16 01:48 :17		
		01:48 :18	•	
		01:48 :19		
		01:48 :20		
		01:48 :21		
		01:48 :22		
		01:48 :23		
		01:48 :24 01:48 :25		
		01:48 :26		
		01:48 :27		
		01:48 :28		
		01:48 :29		
		01:48 :30		
		·		
	1)		No.

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
179		01:48:30 01:48:31 01:48:32 01:48:33 01:48:34 01:48:35 01:48:36 01:48:37 01:48:38 01:48:39 01:48:40 01:48:41 01:48:42 01:48:43 01:48:44 01:48:45 01:48:46 01:48:47 01:48:48 01:48:49 01:48:50 01:48:51 01:48:52 01:48:53 01:48:54 01:48:55 01:48:55 01:48:57 01:48:58 01:48:59 01:48:59 01:48:59		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No.
		01:49 :00 01:49 :01 01:49 :02 01:49 :03		
		01:49 :04 01:49 :05 01:49 :06 01:49 :07		
		01:49:08 01:49:09 01:49:10 01:49:11 01:49:12		
180		01:49 :13 01:49 :14 01:49 :15 01:49 :16 01:49 :17		
		01:49 :18 01:49 :19 01:49 :20 01:49 :21		
		01:49 :22 01:49 :23 01:49 :24 01:49 :25 01:49 :26		
		01:49 :27 01:49 :28 01:49 :29 01:49 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
181		01:49:30 01:49:31 01:49:32 01:49:33 01:49:34 01:49:35 01:49:36 01:49:37 01:49:38 01:49:39 01:49:40 01:49:41 01:49:42 01:49:43 01:49:44 01:49:45 01:49:46 01:49:47 01:49:48 01:49:49 01:49:50 01:49:50 01:49:50 01:49:50 01:49:55 01:49:55 01:49:55 01:49:55 01:49:55 01:49:55 01:49:56 01:49:57 01:49:58 01:49:59 01:50:00		

Task	Commander	ALSEP/A-2 Time	LM Pilot	Task
Task No.		(Cumulative)	Activity	No.
190.	Activity	(Cumazari,	• •	
C16.0	Denloy 2nd Prohe			
C16. 1	Deploy 2nd Probe Grasp unmarked HFE probe pkg	01:50 :00		
010.1	carry strap	01:50:01		
		01:50 :02		
		01:50 :03		1
		01:50 :04		
C16.2	• Walk 16 feet northeast of the electronics	01:50 :05		
	pkg to the second bore hole site, de-	01:50 :06		[
	ploying the probe cable. (Carry drill	01:50 :07		
	and emplacement tool also.)	01:50 :08		
		01:50 :09		
		01:50 :10		
		01:50 :11		
		01:50 :12	•	
		01:50 :13 01:50 :14		
		01:50 :14		
182		01:50 :16		
		01:50 :17		
		01:50 :18	•	
		01:50 :19		
		01:50 :20		
		01:50 :21		
		01:50 :22		
	·	01:50 :23		1
		01:50 :24		
		01:50 :25		-
		01:50 :26		
		01:50 :27		
		01:50 :28		1
		01:50 :29		
		01:50 :30		
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	Manual Manual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual		Name of the second of the seco)		
	•		ALSEP/A-2			· · · · · · · · · · · · · · · · · · ·	
	Task	Commander	Time	LM Pilot			CT - 1
	No.	Activity	(Cumulative)	Activity			Task
	210.	Tietzvity	Cumulative	Activity			No.
	C1/ 2						
	C16.3	· Lower HFE probe pkg to lunar	01:50:30				
		surface, open face downward	01:50:31				
			01:50:32				
			01:50:33			1	•
			01:50:34			į	
			01:50:35			1	
			01:50:36				
			01:50:37				
			01:50:38				
	ai/ /		01:50:39			-	
	C16.4	· Lower emplacement tool to lunar	01:50:40	•		ĺ	
		surface.	01:50:41			ĺ	
			01:50:42			1	
		·	01:50:43			ĺ	
_	_		01:50:44				
O	- 2 2		01:50:45				
•			01:50:46				
			01:50:47		,	İ	
			01:50:48				
			01:50:49				
			01:50:50				
			01:50:51			1	
			01:50:52				
-			01:50:53				
			01:50:54				
			01:50:55				
			01:50:56				
			01:50:57				
			01:50:58				
			01:50:59				
			01:51:00				
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		ALSEP/A-2		
Task No.	Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
184		01:51:00 01:51:01 01:51:02 01:51:03 01:51:04 01:51:05 01:51:06 01:51:07 01:51:08 01:51:10 01:51:11 01:51:12 01:51:13 01:51:14 01:51:15 01:51:16 01:51:17 01:51:18 01:51:19 01:51:19 01:51:20 01:51:21 01:51:22 01:51:23 01:51:24 01:51:25 01:51:26 01:51:27 01:51:28 01:51:29 01:51:29 01:51:29		

		ALSEP/A-2		
Task No.	Commander Activity	Time (Cumulative)	LM Pilot Activity	Task No.
185		01:51:30 01:51:31 01:51:32 01:51:33 01:51:34 01:51:35 01:51:36 01:51:37 01:51:38 01:51:39 01:51:40 01:51:41 01:51:42 01:51:43 01:51:44 01:51:45 01:51:46 01:51:48 01:51:49 01:51:51 01:51:51 01:51:52 01:51:53 01:51:55 01:51:55 01:51:55 01:51:55 01:51:56 01:51:58 01:51:59 01:52:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
186		01:52:00 01:52:01 01:52:02 01:52:03 01:52:04 01:52:05 01:52:06 01:52:07 01:52:08 01:52:09 01:52:10 01:52:11 01:52:12 01:52:13 01:52:14 01:52:15 01:52:16 01:52:17 01:52:18 01:52:19 01:52:20 01:52:21 01:52:20 01:52:21 01:52:22 01:52:23 01:52:24 01:52:25 01:52:26 01:52:27 01:52:28 01:52:29 01:52:29		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
187		01:52:30 01:53:31 01:53:32 01:53:33 01:53:34 01:53:35 01:53:36 01:53:37 01:53:38 01:53:39 01:53:40 01:53:41 01:53:42 01:53:42 01:53:44 01:53:45 01:53:46 01:53:46 01:53:49 01:53:48 01:53:49 01:53:50 01:53:51 01:53:51 01:53:55 01:53:51 01:53:55 01:53:55 01:53:55 01:53:55 01:53:55 01:53:56 01:53:57 01:53:58 01:53:59 01:53:59 01:53:00			

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		ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
	HFE Probe #2		LSM Deployment	
	IMPLANT DRILL	01:53:00	EMPLACE LSM	P25.0
C17.0	STEM #2	01:53:00	• Grasp handle and lift LSM from lunar	P25.1
017.0		01:53:02	surface.	
		01:53:03		
		01:53:04		D25 2
		01:53:05	· Carry LSM 50 feet northwest of C/S.	P25.2
		01:53:06		
		01:53:07		
		01:53 :08 01:53 :09		
		01:53:10		
		01:53:11		
		01:53 :12		
		01:53 :13		
		01:53 :14		
188		01:53 :15		
W		01:53 :16		
		01:53 :17 01:53 :18	·	
		01:53 :18		1
		01:53 :20		
		01:53 :21		
		01:53 :22		
		01:53 :23		
		01:53 :24		
		01:53 :25		
		01:53 :26 01:53 :27		
		01:53 :27		
		01:53 :29	·	
		01:53:30		
	1			Ą
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01:53:30 01:53:31 01:53:32 01:53:33 01:53:34 01:53:35 01:53:36 01:53:37 01:53:38 01:53:39	Task No.	Commander	ALSEP/A-2 Time	LM Pilot	Task
01:53:41 01:53:42 01:53:43 01:53:44 01:53:45 01:53:46 01:53:47 01:53:48 01:53:49	No. 189	Activity	01:53:30 01:53:31 01:53:32 01:53:33 01:53:34 01:53:35 01:53:36 01:53:37 01:53:38 01:53:39 01:53:40 01:53:41 01:53:42 01:53:42 01:53:44 01:53:45 01:53:45 01:53:46 01:53:47 01:53:48 01:53:49 01:53:49 01:53:50 01:53:50 01:53:51 01:53:55 01:53:55 01:53:55 01:53:55	 Deploy three lunar support legs. Rotate LSM so colored-coded lunar support leg is oriented westward and 	P25. 3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
**************************************		01:54:00 01:54:01 01:54:02 01:54:03 01:54:04	· Unstow UHT.	P25.5
		01:54:05 01:54:06 01:54:07 01:54:08 01:54:09 01:54:10 01:54:11 01:54:12 01:54:13	· Use UHT ro remove foam packaging.	P25.6
190		01:54:14 01:54:15 01:54:16 01:54:17 01:54:18 01:54:19 01:54:20 01:54:21 01:54:22 01:54:23 01:54:24 01:54:25 01:54:26 01:54:27 01:54:28 01:54:29 01:54:30	• Deploy three sensor arms by rotating \$\polenom{1}{2}\$ locking each upper sensor arm section and lowering each sensor arm into the deployed position.	P25.7

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
191		01:54:30 01:54:31 01:54:32 01:54:33 01:54:34 01:54:35 01:54:36 01:54:37 01:54:38 01:54:40 01:54:41 01:54:42 01:54:42 01:54:44 01:54:45 01:54:46 01:54:46 01:54:47 01:54:48 01:54:49 01:54:51 01:54:51 01:54:51 01:54:55 01:54:53 01:54:55 01:54:55 01:54:55 01:54:55 01:54:55	 Use PRA removal lanyard to remove and discard PRA covers. Level and align LSM. Observing bubble level and use UHT to level LSM. 	P26.0 P26.1

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
192		01:55:00 01:55:01 01:55:02 01:55:03 01:55:04 01:55:05 01:55:06 01:55:07 01:55:08 01:55:09 01:55:10 01:55:11 01:55:12 01:55:13 01:55:14 01:55:15 01:55:16 01:55:17 01:55:18 01:55:19 01:55:20 01:55:21 01:55:22 01:55:23 01:55:24 01:55:25 01:55:25 01:55:26 01:55:27 01:55:28 01:55:29 01:55:29	. Observing shadowgraph, align LSM. Grasp sunshade and release from storage.	P26.2

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:55:30 01:55:31 01:55:32 01:55:33 01:55:34 01:55:35 01:55:36 01:55:37 01:55:38 01:55:39	· Deploy sunshade and attach to Velcro.	P26.4
193		01:55:40 01:55:41 01:55:42 01:55:43 01:55:44 01:55:45 01:55:46 01:55:47 01:55:48 01:55:49	· Tether UHT to EMU.	P26.5
		01:55:50 01:55:51 01:55:52 01:55:53 01:55:54 01:55:55 01:55:56 01:55:57 01:55:58 01:55:59 01:56:00	· Walk to C/S.	P26.6

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:56:00		
		01:56:01		
		01:56:02		
		01:56:03 01:56:04		i
		01:56:05		
ļ		01:56:06		
İ		01:56:07		
		01:56:08		
		01:56:09		
		01:56:10		
		01:56:11 01:56:12		
		01:56:13		
		01:56:14		ļ
		01:56:15		
•		01:56:16		
		01:56:17		
		01:56:18 01:56:19		
		01:56:19		
		01:56:21		
		01:56 :22		
		01:56 :23		
]		01:56:24		
1		01:56:25 01:56:26		
		01:56:27		
		01:56 :28		
		01:56:29		
		01:56:30		
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	400000	ALSEP/A-2		T
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
	•			
		01.5(.20		
		01:56:30		
		01:56:31		
		01:56:32		
		01:56:33		
		01:56:34 01:56:35		
		01:56:36		
		01:56:36		į.
		01:56:38		
		01:56:39		1
ļ		01:56:40		
		01:56:41		1
		01:56:42		
		01:56:43		1
		01:56:44		
		01:56:45		
		01:56:46		j
		01:56:47		
		01:56:48		
		01:56:49		
		01:56:50		
		01:56:51		
		01:56:52		
		01:56:53		
		01:56:54		
		01:56:55		
		01:56:56		
		01:56 :57		
		01:56:58		
		01:56:59		
		01:57:00		
		1		

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:57:00 01:57:01 01:57:02 01:57:03 01:57:04 01:57:05 01:57:06 01:57:07	C/S Activation • Use UHT to rotate astronaut switch #1 CW.	P27. 0 P27. 1
196		01:57:09 01:57:10 01:57:11 01:57:12 01:57:13 01:57:14 01:57:15 01:57:16 01:57:17		
		01:57:18 01:57:19 01:57:20 01:57:21 01:57:22 01:57:23 01:57:24 01:57:25 01:57:26 01:57:27 01:57:28	. Disengage UHT, tether to EMU, and walk to LRV.	P27.2
		01:57 :29 01:57 :30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
197		01:57:30 01:57:31 01:57:32 01:57:33 01:57:34 01:57:35 01:57:36 01:57:37 01:57:38 01:57:40 01:57:41 01:57:42 01:57:43 01:57:44 01:57:45 01:57:46 01:57:47 01:57:48 01:57:49 01:57:50 01:57:51 01:57:52 01:57:53 01:57:54 01:57:55 01:57:56 01:57:57 01:57:58 01:57:59 01:58:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		01:58:00		
		01:58:01		
		01:58:02		
		01:58:03 01:58:04		1
		01:58:05		
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j		01:58:07		
		01:5 8:08		
ĺ		01:58:09		
		01:58:10		
}		01:58:11 01:58:12		
		01:58:13	· · · · · · · · · · · · · · · · · · ·	
1		01:58:14		
		01:58:15		
		01:58 :16		
		01:58 :17		
		01:58 :18 01:58 :19		
}		0158 :19		
		0158:21		
		0158:22		
		01:58 :23		
j		01:58 :24		
Ī		01:58 :25		
		01:58 :26 01:58 :27		
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		01:58 :29		j
j		01:58:30		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
199		01:58:30 01:58:31 01:58:32 01:58:33 01:58:34 01:58:35 01:58:36 01:58:37 01:58:39 01:58:40 01:58:41 01:58:42 01:58:43 01:58:44 01:58:45 01:58:46 01:58:46 01:58:49 01:58:50 01:58:51 01:58:52 01:58:53 01:58:55 01:58:55 01:58:55 01:58:56 01:58:57 01:58:59 01:58:59 01:59:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No.
		01:59:00		
l		01:59:01		
	·	01:59:02		j
		01:59:03		
		01:59:04 01:59:05		
		01:59:06		
İ		01:59:07		
		01:59:08		ĺ
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		01:59:10		
		01:59:11		
		01:59:12		
İ		01:59 :13 01:59 :14		
		01:59:15		
		01:59:16		
Ì		01:59 :17		
l		01:59:18		
		01:59:19		
		01:59 :20 01:59 :21		
		01:59:21		
1		01:59:23		
		01:59 :24		
1		01:59:25		
1		01:59 :26		l
1		01:59:27		
		01:59 :28 01:59 :29		
		01:59:30		
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Task	Commander	ALSEP/A-2 Time (Cumulative)	LM Pilot	Task
No.	Activity		Activity	No.
201		01:59:30 01:59:31 01:59:32 01:59:33 01:59:34 01:59:35 01:59:36 01:59:38 01:59:39 01:59:40 01:59:40 01:59:41 01:59:42 01:59:43 01:59:44 01:59:45 01:59:46 01:59:49 01:59:49 01:59:50 01:59:51 01:59:52 01:59:53 01:59:55 01:59:55 01:59:55 01:59:56 01:59:57 01:59:58 01:59:59 02:00:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
202		02:00:00 02:00:01 02:00:02 02:00:03 02:00:04 02:00:05 02:00:06 02:00:07 02:00:08 02:00:09 02:00:10 02:00:11 02:00:12 02:00:13 02:00:14 02:00:15 02:00:16 02:00:17 02:00:18 02:00:19 02:00:20 02:00:21 02:00:22 02:00:23 02:00:24 02:00:25 02:00:25 02:00:26 02:00:27 02:00:28 02:00:29 02:00:30		

Task No. ALSEP/A-2 Time LM Pilot Activity No.	(· · · · · · · · · · · · · · · · · · ·	Manuage of Continues of the Continues of		- resource -	
Task			The second secon		1	water (
Task	. Matanana	The state of the s	The state of the s		1	Å
No. Activity (Cumulative) Activity No. O2:00:30	m , [angle spike	
02:00:30 02:00:31 02:00:32 02:00:33 02:00:34 02:00:35 02:00:36 02:00:37 02:00:38 02:00:39 02:00:40 02:00:41 02:00:41 02:00:42 02:00:43 02:00:43 02:00:44 02:00:45 02:00:46 02:00:46 02:00:47 02:00:48 02:00:48 02:00:49 02:00:50 02:00:51 02:00:51 02:00:55 02:00:54 02:00:55 02:00:56 02:00:56 02:00:56 02:00:57 02:00:58 02:00:59	4					
02:00:31 02:00:33 02:00:33 02:00:34 02:00:35 02:00:36 02:00:37 02:00:38 02:00:39 02:00:40 02:00:40 02:00:41 02:00:42 02:00:43 02:00:45 02:00:45 02:00:46 02:00:46 02:00:49 02:00:48 02:00:49 02:00:50 02:00:50 02:00:50 02:00:50 02:00:55 02:00:55 02:00:55 02:00:55 02:00:55 02:00:55 02:00:56 02:00:57 02:00:58 02:00:58	No.	Activity	(Cumulative)	Activity		No.
02:00:31 02:00:32 02:00:33 02:00:34 02:00:35 02:00:36 02:00:37 02:00:38 02:00:39 02:00:40 02:00:41 02:00:42 02:00:44 02:00:45 02:00:45 02:00:46 02:00:47 02:00:48 02:00:49 02:00:49 02:00:50 02:00:50 02:00:50 02:00:50 02:00:55 02:00:55 02:00:55 02:00:56 02:00:57 02:00:58 02:00:58						
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
1		(Cumulative) 02:01:00 02:01:01 02:01:02 02:01:03 02:01:04 02:01:05 02:01:06 02:01:07 02:01:08 02:01:09 02:01:10 02:01:11 02:01:12 02:01:13 02:01:14 02:01:15 02:01:16 02:01:17	Activity LR ³ Deployment Remove LR ³ from LRV right seat and lower to lunar surface.	P28. P28.
		02:01:18 02:01:19 02:01:20 02:01:21 02:01:22 02:01:23 02:01:24 02:01:25 02:01:25 02:01:27 02:01:28 02:01:29 02:01:30	• Carry LR ³ by carry handle to deploy - ment site 100 feet west of C/S.	P28.

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
205		02:01:30 02:01:31 02:01:32 02:01:33 02:01:35 02:01:36 02:01:37 02:01:38 02:01:39 02:01:40 02:01:41 02:01:42 02:01:43 02:01:44 02:01:45 02:01:45 02:01:46 02:01:47 02:01:48 02:01:49 02:01:50 02:01:51 02:01:51 02:01:52 02:01:53 02:01:55 02:01:56 02:01:57 02:01:58 02:01:59 02:02:00	• Emplace LR ³ on lunar surfac vertical position.	e in P28.3

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		02:02:00 02:02:01 02:02:02 02:02:03 02:02:04 02:02:05 02:02:06 02:02:07 02:02:08 02:02:09 02:02:10 02:02:11 02:02:12 02:02:13 02:02:14	• Unstow reflector array pull ring, remove reflector array pull pins and discard pull pins.	P28.4
		02:02:15 02:02:16 02:02:17 02:02:18 02:02:19 02:02:20 02:02:21 02:02:21 02:02:22 02:02:23 02:02:24 02:02:25 02:02:25 02:02:26 02:02:27 02:02:28 02:02:29 02:02:30	• Use reflector array deployment knob rotate small reflector array 180° to deployed position. Verify small array is fully deployed and locked.	

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•		ALSEP/A-2		
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
		·		
	·	02:02:30	· Unstow UHT from EMU.	700 (
		02:02:30	· Onstow OHI IFOM EMU.	P28.6
		02:02:31		
	_	02:02:32		
		02:02:33		
		02:02:34	Engage HIII in HIII and a second	
		02:02:35	• Engage UHT in UHT socket while	P28.7
			standing on array side of LR ³ .	
		02:02:37		
		02:02:38		
		02:02:39		
		02:02:40		1
		02:02:41		*
	·	02:02:42		
•		02:02:43		
2.07		02:02:44	7173.43	
97		02:02:45	· While standing on leveling leg side of	P28.8
		02:02:46 02:02:47	LR ³ , unstow leveling leg pull ring,	
		02:02:47	remove leveling leg pull pin, discard	
		02:02:48	pull pin and verify leveling leg is fully	
	·	02:02:49	deployed and locked.	
		02:02:50		
		02:02:51		
		02:02:53		
	N.	02:02:54	,	
		02:02:55		
		02:02:56		
		02:02:57		1
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
		02:03:00 02:03:01 02:03:02 02:03:03 02:03:04 02:03:05 02:03:06 02:03:07 02:03:08	Remove alignment mechanism pull pin, discard pull pin and verify that alignment mechanism is fully deployed.	P28.9
208		02:03:09 02:03:10 02:03:11 02:03:12 02:03:13 02:03:14 02:03:15 02:03:16 02:03:17 02:03:17 02:03:18 02:03:19 02:03:20 02:03:21 02:03:22 02:03:23	· Unstow dust cover pull ring, pull on lanyards to remove dust covers and discard dust covers.	P28.10
		02:03 :24 02:03 :25 02:03 :26 02:03 :27 02:03 :28 02:03 :29 02:03 :30	· Use UHT to emplace LR ³ on lunar surface in deployed position with arrays directed toward the subearth point (nominally south-westward).	P28.11

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
209	Activity	02:03:30 02:03:31 02:03:32 02:03:33 02:03:34 02:03:35 02:03:36 02:03:37 02:03:38 02:03:39 02:03:40 02:03:41 02:03:42 02:03:42 02:03:45 02:03:45 02:03:46 02:03:47 02:03:48 02:03:49 02:03:50 02:03:51 02:03:51 02:03:51 02:03:55 02:03:55 02:03:55 02:03:55 02:03:57 02:03:58 02:03:59 02:04:00	Observe sun compass and use UHT to rough align LR ³ . Observe bubble level and use UHT to level LR ³ .	P28. 12

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Ta N
		02:04:00 02:04:01 02:04:02 02:04:03 02:04:04 02:04:05 02:04:06 02:04:07 02:04:08 02:04:09 02:04:10 02:04:11 02:04:12	· Observe sun compass and use UHT to finely align LR ³ .	P28
210		02:04:13 02:04:14 02:04:15 02:04:16 02:04:17 02:04:18	Disengage UHT from UHT socket and discard UHT.	P28
		02:04:19 02:04:20 02:04:21 02:04:22 02:04:23 02:04:24	· Check leveling and alignment.	P28
		02:04 :24 02:04 :25 02:04 :26 02:04 :27 02:04 :28 02:04 :29 02:04 :30	• Return to LRV.	P28
				× .

·		ALSEP/A-2		\mathbf{I}
Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
		02:04:30		
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		02:05:00		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No.
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		02:05:00	ALSEP Photography	P29.
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į		02:05 :02		
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İ		02:05 :04		1
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		02:05 :10		
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		02:05 :16		
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		02:05 :19		
		02:05 :20		
j		02:05 :21		
1		02:05 :22		
		02:05 :23		
		02:05 :24		
		02:05 :25		
-		02:05 :26		
]		02:05 :27		
İ		02:05 :28		
		02:05 :29 02:05 :30		
		02:05:30		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
213		02:05:30 02:05:31 02:05:32 02:05:33 02:05:34 02:05:35 02:05:36 02:05:37 02:05:38 02:05:39 02:05:40 02:05:41 02:05:42 02:05:42 02:05:44 02:05:45 02:05:45 02:05:46 02:05:47 02:05:48 02:05:49 02:05:50 02:05:51 02:05:52 02:05:53 02:05:55 02:05:56 02:05:57 02:05:58 02:05:59 02:06:00		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
214		02:06:00 02:06:01 02:06:02 02:06:03 02:06:04 02:06:05 02:06:06 02:06:07 02:06:08 02:06:09 02:06:10 02:06:11 02:06:12 02:06:13 02:06:14 02:06:15 02:06:16 02:06:17 02:06:18 02:06:19 02:06:20 02:06:21 02:06:22 02:06:23 02:06:24 02:06:25 02:06:26 02:06:27 02:06:28 02:06:29 02:06:30		

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Task	Commander	Time	LM Pilot	Task
No.	Activity	(Cumulative)	Activity	No.
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		02:06:41		
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		02:06:43		ļ
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		02:06:59		
		02:07:00		
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Task	Commander	ALSEP/A-2 Time	LM Pilot	Tasl
No.	Activity	(Cumulative)	Activity	No.
C18.0	Insert Probe #2			
C18.1	Insert Probe #2 . Unstow UHT from EMU.	02:07:00		
		02:07:01		
	1	02: 07:02 02: 07:03		
		02:07:03		i
G10 2	II - IIII handle to healt UFF probe	02:07:04		
C18.2	• Use UHT handle to hook HFE probe pkg carry handle.	02:07:06		
	pkg carry nandie.	02:07:07		
		02:07:08		
		02:07:09		
C18.3	· Use UHT to lift HFE probe pkg from	02:07:10		
	lunar surface.	02:07:11		
		02:07:12	·	
		02:07:13		
.1		02:07:14		
C18.4	· Grasp HFE probe pkg carry strap and	02:07:15		·
	stow UHT on EMU.	02:07:16 02:07:17		
		02:07:17	•	
		02:07:18		
C18.5	· Remove remainder of probe cable	02:07:20		ŀ
010.5	from HFE probe package.	02:07:21		
	From 111 12 probe package.	02:07:22		
		02:07:23		
		02:07:24		
		02:07:25		
		02:07:26		•
		02:07:27		
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		02:07:30		
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No. Activity Cumulative Activity No.		Commander		LM Pilot		Task
Probe forward and to remove probe assembly from sleeve.	No.	Activity	(Cumulative)	Activity	. •	1
Probe forward and to remove probe assembly from sleeve.	C18. 6	·Use pull ring to rotate sleeve containing	02.07.20			
C18. 7 C18. 8 C18. 9 Remove sail cloth retaining first probe end piece and discard sail cloth. C18. 10 C18. 10 C18. 10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18. 10 C19. 17. 14 C19. 17. 14 C19. 17. 14 C19. 17. 14 C19. 17. 14 C19. 17. 14 C19. 17. 14 C19. 17. 14 C10. 17	010.0					
C18.7 Discard probe pkg. C18.7 Discard probe pkg. C18.8 Grasp probe assembly. C18.9 Remove sail cloth retaining first probe end piece and discard sail cloth. C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.9 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.9 Remove sail cloth retaining second probe end piece and discard sail cloth.		assembly from sleeve				<u> </u>
C18.7 Discard probe pkg. C18.7 Discard probe pkg. C18.8 Grasp probe assembly. C18.9 Remove sail cloth retaining first probe end piece and discard sail cloth. C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.10 C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.10 C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.10 C18.10 C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.10 C18.10 C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. C18.10 C18.10 C18.10 C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth.		abbumbly from breeve.				
C18. 7 C18. 8 C18. 9 C18. 10 C18. 1						
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C18.10 end piece and discard sail cloth. O2: 07:51 02: 07:52 02: 07:53 02: 07:54 02: 07:55 02: 07:55 02: 07:55 02: 07:55 02: 07:56 02: 07:57 02: 07:57 02: 07:58 02: 07:59			02:07:49			
C18.10 •Remove sail cloth retaining second probe end piece and discard sail cloth. •Remove sail cloth retaining second probe end piece and discard sail cloth. •Remove sail cloth retaining second 02: 07:55 02: 07:56 02: 07:57 02: 07:58 02: 07:59	C18.9	·Remove sail cloth retaining first probe				
C18.10 • Remove sail cloth retaining second probe end piece and discard sail cloth. • Remove sail cloth retaining second probe end piece and discard sail cloth. • Remove sail cloth retaining second 02: 07:55 02: 07:56 02: 07:57 02: 07:58 02: 07:59		end piece and discard sail cloth.				
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C18.10 Remove sail cloth retaining second probe end piece and discard sail cloth. 02:07:55 02:07:57 02:07:58 02:07:59						
probe end piece and discard sail cloth. 02:07:56 02:07:57 02:07:58 02:07:59	C10 10		1			
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No.
C18.11	· Position lower sunshield over spring on upper probe section.	02:08:00 02:08:01 02:08:02 02:08:03		
C18.12	• Unfold probe assembly.	02:08:04 02:08:05 02:08:06 02:08:07 02:08:08		
C18.13	· Insert probe into bore hole.	02:08:09 02:08:10 02:08:11 02:08:12 02:08:13		
		02:08:14 02:08:15 02:08:16 02:08:17 02:08:18 02:08:19 02:08:20 02:08:21 02:08:22 02:08:23 02:08:24		
C18.14	• Unstow UHT and use handle to hook emplacement tool strap and lift emplacement tool from lunar surface.	02:08:25 02:08:26 02:08:27 02:08:28 02:08:29 02:08:30		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
C18.15	•Place emplacement tool "crow's foot" between lower and upper sunshield.	02:08:30 02:08:31 02:08:32 02:08:33 02:08:34 02:08:35 02:08:36 02:08:37 02:08:38			-
C18. 16	• Use emplacement tool to complete emplacement of probe in drill hole.	02:08:39 02:08:40 02:08:41 02:08:42 02:08:43 02:08:44 02:08:45 02:08:46 02:08:47 02:08:48 02:08:49 02:08:50 02:08:51 02:08:52 02:08:53 02:08:54 02:08:55 02:08:56 02:08:57 02:08:58 02:08:59 02:09:00			

Task	Commander	ALSEP/A-2 Time	LM Pilot	Tas
No.	Activity	(Cumulative)	Activity	No
C18.17	·Observe emplacement tool working and	02:09:00		
	report.	02:09:01		
		02:09:02 02:09:03		
		02:09:04		
C18.18	·Remove emplacement tool from drill	02:09:05		
	hole.	02:09:06		
		02:09:07		
		02:09:08		
		02:09:09 02:09:10		
		02:09:10		
		02:09:12		
		02:09:13		
C18.19	• Use emplacement tool "crow's foot" to	02:09:14		
3	retrive probe cable near upper sunshield.	02:09:15		
		02:09:16 02:09:17		
		02:09:18		
		02:09 :19		
C18.20	· Place emplacement tool "crow's foot"	02:09:20		
	around cable on far side of upper sun-	02:09 :21		
	shield.	02:09 :22 02:09 :23		
		02:09:23		
C18.21	· Use emplacement tool to slide upper	02:09 :25		
	sunshield along probe cable and toward	02:09 :26		1
	probe assembly.	02:09:27		į.
		02:09 :28		
		02:09 :29 02:09 :30		
		02.07.30		
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C18.22	*Use emplacement tool to ensure upper sunshield is fully deployed over drill hole.	02:09:30 02:09:31 02:09:32 02:09:33 02:09:34 02:09:35 02:09:36 02:09:37 02:09:38 02:09:39 02:09:40		
2 C18.23	•Remove emplacement tool "crow's foot" from probe cable.	02:09:41 02:09:42 02:09:43 02:09:44 02:09:45 02:09:46 02:09:47 02:09:48 02:09:49		
C18.24	·Lower probe cable to lunar surface.	02:09:50 02:09:51 02:09:52 02:09:53 02:09:54 02:09:55 02:09:56 02:09:57 02:09:58 02:09:59 02:10:00		
		52.10.00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Tas No
C18.25	• Discard emplacement tool.	02:10:00 02:10:01 02:10:02 02:10:03 02:10:04 02:10:05		
C10, 20	·Walk to HFE subpallet.	02:10:05 02:10:06 02:10:07 02:10:08 02:10:09 02:10:10 02:10:11 02:10:12 02:10:13		
222		02:10:14 02:10:15 02:10:16 02:10:17 02:10:18 02:10:19 02:10:20 02:10:21 02:10:22		
		02:10:23 02:10:24 02:10:25 02:10:26 02:10:27 02:10:28 02:10:29 02:10:30		

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Task	Commander	ALSEP/A-2	T.M. D'1-4		1
No.	Activity	Time	LM Pilot		Task
110,	Activity	(Cumulative)	Activity		No.
C19.0	Remove HFE Electronics Pkg	02:10:30			
C19.1	· Unstow UHT from EMU.	02:10:31			
		02:10:32			
		02:10:33			
		02:10:34			
C19.2	•Use UHT to release four boyd bolts on	02:10:35			
	HFE electronics pkg.	02:10:36			
		02:10:37			
		02:10:38			
		02:10:39			-
		02:10:40	·		
		02:10:41	·		
	r.	02:10:42			
		02:10:43			Ì
223		02:10:44			
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•		02:10:58			
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Ta No
		02:11:00		
		02:11:01		
		02:11:02 02:11:03		
		02:11:03		1
		02:11:05		
		02:11:06		
		02:11:07		
		02:11:08		
		02:11:09		
		02:11:10 02:11:11		
		02:11:12		
		02:11:13		Į
		02:11:14		
C19.3	• Engage UHT in HFE electronics pkg	02:11:15		
	carry socket.	02:11:16		
		02:11:17 02:11:18	•	
		02:11:19		
C19.4	· Use UHT to remove the HFE electronics	02:11:20		
	pkg from HFE subpallet.	02:11:21		
		02:11:22		
		02:11:23		1
C19.5	·Use UHT to lower HFE electronics pkg	02:11:24 02:11:25		
017.5	to lunar surface so its open side faces	02:11:26		
	away from the equator.	02:11:27		
		02:11:28		
		02:11:29		
		02:11:30		Ī
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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity		Task No.
C19.6	·Observe bubble level and use UHT to level the HFE electronics pkg.	02:11:30 02:11:31 02:11:32 02:11:33 02:11:34 02:11:35 02:11:36 02:11:37 02:11:38		,	
C19.7	·Observe the shadow cast on the compass rose by the shaft of the UHT and use the UHT to align the HFE electronics pkg to a predetermined setting.	02:11:39 02:11:40 02:11:41 02:11:42 02:11:43 02:11:44 02:11:45 02:11:46 02:11:47 02:11:48 02:11:49			
C19.8	·Disengage UHT from HFE electronics pkg.	02: 11:50 02: 11:51 02: 11:52 02: 11:53			
C19.9	• Tether UHT to EMU.	02: 11:54 02: 11:55 02: 11:56 02: 11:57 02: 11:58 02: 11:59 02: 12:00			

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Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C19. 10	• Walk to core sampling site.	02:12:00 02:12:01 02:12:02 02:12:03 02:12:04 02:12:05 02:12:08 02:12:09 02:12:10 02:12:11 02:12:12 02:12:13 02:12:14 02:12:15 02:12:16 02:12:17 02:12:18 02:12:19 02:12:19 02:12:20 02:12:21 02:12:22 02:12:23 02:12:24 02:12:25 02:12:26 02:12:27 02:12:28 02:12:29 02:12:29 02:12:29		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
227		02:12:30 02:12:31 02:12:32 02:12:33 02:12:34 02:12:35 02:12:36 02:12:39 02:12:40 02:12:41 02:12:42 02:12:43 02:12:45 02:12:45 02:12:46 02:12:47 02:12:48 02:12:49 02:12:50 02:12:51 02:12:52 02:12:53 02:12:54 02:12:55 02:12:56 02:12:57 02:12:58 02:12:59 00:13:00		

Task No.	Commander Activity	ALSEP/A-2 Time (Cumulative)	LM Pilot Activity	Task No.
C20.0	Core Sampling	02:13:00 02:13:01 02:13:02 02:13:03 02:13:04 02:13:05 02:13:06 02:13:07 02:13:08		
228		02:13:09 02:13:10 02:13:11 02:13:12 02:13:13 02:13:14 02:13:15 02:13:16 02:13:17		
		02: 13:18 02: 13:19 02: 13:20 02: 13:21 02: 13:22 02: 13:23 02: 13:24 02: 13:25 02: 13:26 02: 13:27		
		02:13:28 02:13:29 02:13:30		