

EVA 2

EMU MALF.

CDR

APOLLO

XIII

CUFF CHECK

LIST

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EGRESS

G DEPLOY

PHOTO PAN

ALSEP

ALSEP CONFIG.

PLSS H<sub>2</sub>O TO LM H<sub>2</sub>O (192)

- LOOSEN PGA TORSO TIEDOWN
- PUMP OFF
- LMP DISCONNECT PLSS H<sub>2</sub>O
- ✓PGA CONNECTOR UNLOCKED
- LMP CONNECT LM H<sub>2</sub>O
- CB (16) ECS: LCG PUMP - CLOSED

LM H<sub>2</sub>O (192) TO PLSS H<sub>2</sub>O

- CB (16) ECS: LCG PUMP - OPEN
- LMP DISCONNECT LM H<sub>2</sub>O
- LMP CONNECT PLSS H<sub>2</sub>O
- PUMP ON
- TIGHTEN PGA TORSO TIEDOWN

EVA 2

EMU MALF.

CDR - EVA 1

CDR EGRESS

PULL SAFETY &  
DEPLOY MESA [JETTISON BAG  
TO CDR  
TOSS BAG TO -Y AREA  
DROP LEC TO GND.  
ASCENT ✓

0+18

FAM  
CAMERA TRANSFER [TRANSFER  
LM ✓ & REPORT  
CONTINGENCY SAMPLE

0+25

STOW INTACT ON STRUT  
PHOTO AREA  
LMP EGRESS AID [EGRESS  
TEMP STOW 70 MM [FAM  
CAM OR GIVE  
TO LMP

EGRESS

G DEPLOY

PHOTO PAN

ALSEP

ALSEP  
ONFIG.

S-BAND

0+30	<u>S-BAND DEPLOY (+Z)</u>	[FAM]
	ORIENT TOWARDS EARTH	
	SAVE THERMAL COVER	[ITV]
	STEADY LEG FOR DISH	
	DEPLOY & <b>DUCK</b>	
	CONNECT CABLE	
	CALL LMP TO ASSIST	
	<u>ANTENNA ALIGN</u>	
	<u>WATCH PLSS ANT/DISH</u>	
0+45	<u>FINISH ETB PREP</u>	[INGRESS]
	DEPLOY TABLE	
	UNSTOW ETB - TAKE OUT BAGS & SAFETY - STOW ON MESA	
	LOAD IN ETB -	
	<b>LIOH CANS</b>	
	<b>PLSS BATTs</b>	
	<b>CONT SAMPLE BAG</b>	
	<b>HOOK UP LEC</b>	

## SEQ BAY -BAND

1+10 WALK TO SEQ BAY [TO SEQ BAY  
 VIA +Y - LM INSPECT  
 TV REPOSITION TO SEQ BAY  
 (f:44 DIST:25 ANGLE:25) & UNCAP  
**KEEP STRUTS OUT OF PICTURE**

2 ALSEP PREP  
 OPEN DOOR (WHITE)  
 PKG 1 OUT  
 HANDLE UP  
 TOOLS OFF PKG 2 & IN HTC  
 DRILL OFF  
 PLACE ON PAD

RTG FUELUP  
 PUTTERS IN PKGS  
 PKG 2 DOWN TO FUEL

MAST TOGETHER - ✓ LOCK  
 MAKE DUMBBELL [TO MESA

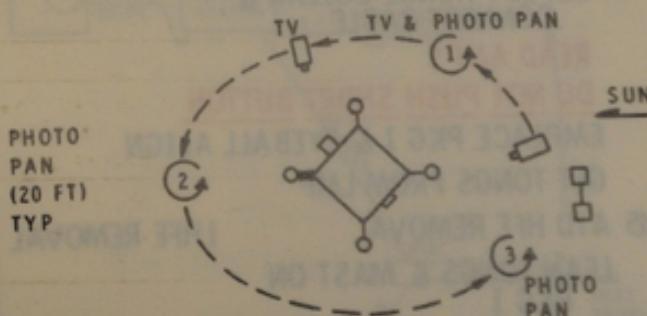
TO DEPLOY ALSEP  
 BOOM: Pull White Till Pkg Clear; Ratchet Stripes To Gnd; Pull Pin Hockey Stick

MANUAL: Pull Release; Pull String; Haul Out Pkg; Pull Pin Hockey Stick

EVA 2 EMU MALF.

BOOMS IN  
 SHUT DOORS (STRIPES)

1+25 TV PAN - AT f:44 UNLESS GND  
 ADVISES  
 PHOTO PANS



GET DUMBBELL - MEET LMP  
 PUT ON TOTE BAGS

1+30 TRAVERSE >300 FT. WEST

ALSEP PHOTOS  
 OSEOU PHOTO PAN  
 ALSEP  
 ALSEP ;ONFIG.

ALSEP  
DEPLOY

EQ BAY -BAND

1+35 ALSEP DEPLOY

DISCON MAST FROM PKG 2 }  
RELOC PKG 2 10 FT. WEST }  
70 MM CAM TO LMP }

PUTTERS  
NORTH

EMPLACE PKG 2

REPORT TEMPS ON ALL EQUIP.

DEPLOY HORSE COLLAR &  
CONNECT CABLE

READ AMPS

**DO NOT PUSH SHORT BUTTON**

EMPLACE PKG 1 & EYEBALL ALIGN

GET TONGS FROM LMP

1+45 AID HFE REMOVAL

LEAN TONGS & MAST ON  
PKG 1

DEPLOY PSE STOOL (DIG HOLE)

REMOVE SUB PALLET, STOW MAST

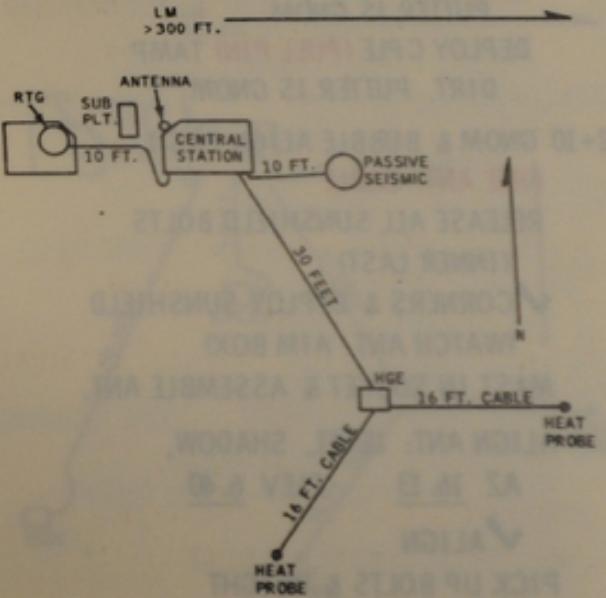
DEPLOY PSE (PULL OFF BOLTS) LEVEL,  
REPORT DEGREES



EVA 2

EMU MALF.

1 FT. SLACK ALL CABLES



ALSEP  
PHOTOS

OSEOUT

TRAV

ALSEP

ALSEP  
ONFIG.

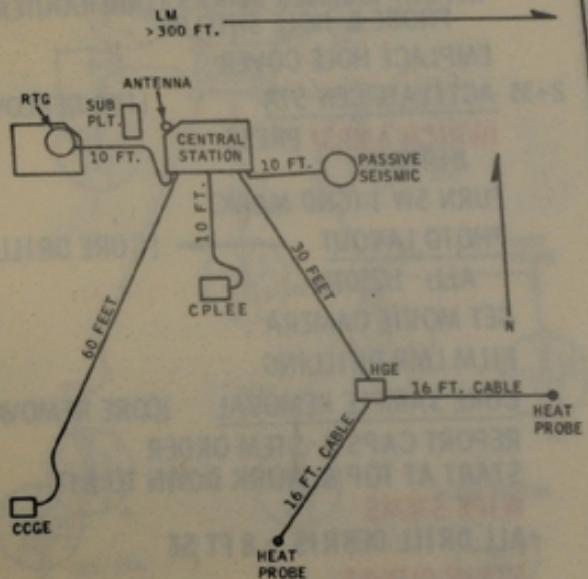
ALSEP DEPLOY      EQ BAY -BAND

REMOVE CCGE & **PULL PIN** ON  
REEL. DEPLOY 60 FT. SW.  
PUTTER IS GNOM  
DEPLOY CPLE (**PULL PIN**) TAMP  
DIRT, PUTTER IS GNOM  
  
2+10 GNOM & BUBBLE ALIGN PKG 1  
**FREE ANT. CABLE**  
RELEASE ALL SUNSHIELD BOLTS  
(INNER LAST)  
✓ CORNERS & DEPLOY SUNSHIELD  
(WATCH ANT. AIM BOX)  
MAST IN SOCKET & ASSEMBLE ANT.  
ALIGN ANT: LEVEL, SHADOW,  
AZ 16.13    ELEV 6.40  
✓ ALIGN  
PICK UP BOLTS & WEIGHT  
PSE SKIRT (IF REQUIRED)

DATE: 04/26/72  
TIME: 11:21:31

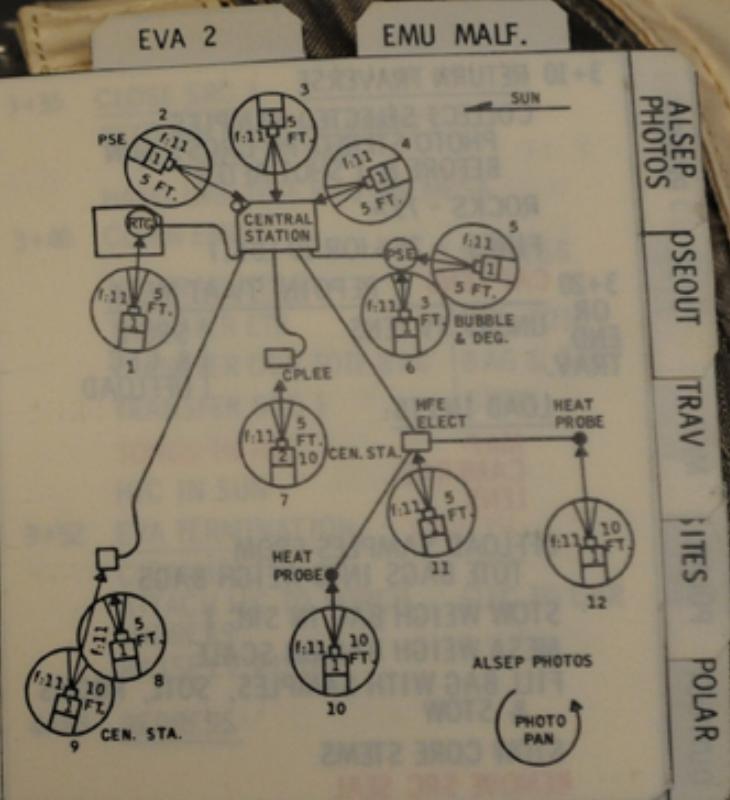
EVA 2      EMU MALF.

1 FT. SLACK ALL CABLES



ALSEP PHOTOS      OSEOUT TRAV      ITES ALSEP CONFIG.

PHOTOS	ALSEP DEPLOY	ALSEP EPOXY	EQ BAY -BAND	(IF HFE NOT DEPLOYED) DEPLOY HFE REPORT RAMMER MARKS (INNER/OUTER) PROBE & HOLE SHIELD EMPLACE HOLE COVER 2+35 ACTIVATE CEN STA <b>(WATCH AMPS)</b> PRESS BUTTON TURN SW 1 (GND MARK) PHOTO LAYOUT → [CORE DRILL] ALL: 1/250TH GET MOVIE CAMERA FILM LMP DRILLING CORE SAMPLE REMOVAL [CORE REMOVAL] REPORT CAPS & STEM ORDER START AT TOP & WORK DOWN TO BIT <b>WIPE STEMS</b> ALL DRILL DEBRIS > 8 FT SE <b>STRIP GLOVES</b>
				3+05 EMU ✓



	EGRESS	CLOSEOUT	TRAV	ITEMS	POLAR
ALSEP DEPLOY	ALSEP Eploy	EQ BAY	RETURN	EVA 2	EMU MALF.
PHOTOS					
3+10	RETURN TRAVERSE				
	COLLECT SELECTED SAMPLES - PHOTO STEREO PR CROSS SUN BEFORE & 1 SHOT AFTER				
	ROCKS - 75%				
	FINES - 25% (OR 10 LBS.)				
3+20	<b>CAP LENS</b> & REPOINT TV AT MESA OR UNCAP TV LENS				
	END TRAV.				
	LOAD IN ETB:				
	MAP CAMERAS LENS				
	OFFLOAD SAMPLES FROM TOTE BAGS INTO WEIGH BAGS				
	STOW WEIGH BAG IN SRC 1				
	MESA WEIGH BAG ON SCALE				
	FILL BAG WITH SAMPLES, SOIL, ROCKS & STOW				
	STOW CORE STEMS				
	<b>REMOVE SRC SEAL</b>				
3+35		CLOSE SRC 1			
		RETURN ITEMS & SAMPLES IN CDR TOTE BAG			
		HANG LMP TOTE BAG ON MESA			
3+40		CLEAN EMU'S			INGRESS
		LEC TRANSFERS			
		TRANSFER ETB			ETB, TOTE
		TRANSFER CDR TOTE BAG			BAG & SRC
		TRANSFER SRC 1			STOW
		<b>TONGS IN HTC</b>			
		HTC IN SUN			
3+52		EVA TERMINATION - <b>CAP TV</b>			
		CLEAN EMU			
		ATTACH LEC TO PORCH			ILEC TO CDR
		INGRESS			
		RAISE EV VISOR			
4+00		<b>REPRESS</b>			

## DISTANCE ESTIMATION

IF LM TOP TO PAD:

WIDE AS EARTH - 620 FT.  
ECLIPSED BY THUMB - 350 FT.  
(ARM'S LENGTH)

IF LM CLUSTER TO CLUSTER:  
WIDE AS EARTH - 350 FT.  
ECLIPSED BY THUMB - 200  
(ARM'S LENGTH)

IF ASCENT STAGE - TOP TO INTERFACE:  
WIDE AS EARTH - 280 FT.  
ECLIPSED BY THUMB - 160 FT.  
(ARM'S LENGTH)

EMU Malf.

CDR - EVA 2

0+10 CDR EGRESS

## JETTISON BAGS

HAND LEC

DESCEND  
TRANSFER DOWN

PUT 70 MM CAMERA  
ON RGH

0+20 GET SRC 2

PLACE ON TABLE &  
OPEN

**BRING HAND TOOL  
CARRIER TO MESA**

PHOTOS ALSEP EPLOY \LSEP EPLOY D'ST. RETURN

PHOTOS	ALSEP DEPLOY	LM SEP EPLOY	DST.	SRC	ITEMS	OUTPO.	NEAR LM SAMPLES	TRAV	ITES	POLAR	
					<p>0+25 SRC OFFLOAD            GAS, SPEC ENVIRON, MAG SAMPLES            IN LMP TOTE BAG POUCH            CORE CAPS IN CLIP HTC            35 BAG DISPENSER IN HTC            CORE TUBES IN HTC RACK            CLOSE ORG. SAMPLE - BACK IN SRC  <u>ITEMS FOR HTC</u>            FOXHOLE SHOVEL, HAMMER, GNOM, MAP  <u>PUT TOTE BAG ON LMP</u>  <b>SAFETY LINE &amp; FILTER IN POUCH</b>            TONGS ON YOYO [TOTE BAG            70 MM CAMERA ON RCU [ON CDR            ASSEMBLE SMALL SCOOP &amp; EXT HANDLE            GET CSC &amp; HAVE MESA BRUSH NEAR  <u>THERMAL DEGRADATION SAMPLE</u>            SAMPLE 1: CSC 1 SIDE, THEN DIRT            ON SAMPLE. CSC BOTH SIDES.            BRUSH OFF SAMPLE, CSC BOTH            SIDES</p>	<p>EMU MALF.              HOLDS SAMPLES            SAMPLE 2: DIRT ON SAMPLE,            CSC BOTH SIDES            SMALL SCOOP EXT HANDLE IN HTC  <u>SIEVE SAMPLE 5 MINUTES</u>            SELECT &amp; PHOTO TYPICAL AREA            COLLECT INTO EXTRA WEIGH BAG            SEAL BAG &amp; STOW IN ETB  <u>CONTAMINATED SAMPLE (UNDER QUAD 3)</u>            TAKE X SUN STEREO BEFORE            COLLECT FINES &amp; <b>DOUBLE BAG</b>            TAKE X SUN PHOTO &amp; STOW IN ETB  <u>COLOR CHART (LMP HOLDS)</u>            PLACE GNOMON NEAR ROCK            POSITION CHART DOWN SUN 5 FT.            TAKE 4 PHOTOS: f:5.6, 8, 11, 16            TAKE 1 PHOTO f:11 45° AZIMUTH            HOLD CHART FOR LMP  <b>TAKE CSC CAMERA &amp; START TRAVERSE</b></p>					

ALSEP DEPLOY	ILSEP DEPLOY	TRAVERSE REQMTS.	SRC	OUTPOST	OSEOL	TRAV	ITES	POLAR
		<u>TRAVERSE REPORT:</u>  ALL MOVEMENTS INCLUDING DIRECTIONS BETWEEN SAMPLES LOCATION WRT LM PHOTOS OTHER THAN NOMINAL SAMPLE BAG NUMBERS OBSTRUCTIONS WRT LM - GET BEHIND & TRY COMM (CDR) LMP PHOTO OBSTRUCTION, CDR, LM						
		<u>PHOTOS</u>  PAN AT EACH LEG, SITE, DIRECTION CHANGE--MAP SHOWS NOMINAL CSC CAMERA PICTURES - PIGGY BACK ON DOC. SAMP. AS REQUIRED <b>REPORT ORIENT &amp; FRAME NO.</b>						
		<u>CRATER DOCUMENTATION</u>  SERIES OF SAMPLES RADIALLY FROM CENTER						

EMU MALF.  
CORE SAMPLES (SINGLE & DOUBLE)  
TAKE ON SURFACE ONLY (SEE MAP)  
BEFORE: REPORT S/N TUBE(S)  
DRIVE TUBE(S) & PHOTO X SUN 15 FT.  
AFTER: PHOTO X SUN STEREO 5 FT.

TRENCHES  
PHOTO SITE X SUN, DOWN SUN  
DIG DOWN SUN OFF  $10^{\circ}$  **f:5.6, 1/125**  
DOCUMENTED SAMPLES BOTTOM - TOP  
FILL, BOTTOM, TOP, SIDES, DISCONS  
CSC CAMERA PHOTOS BOTTOM  
**RESET 70 MM CAMERA 1/250**

COLLECT 1 LARGE ROCK - FOOTBALL

USE COLOR CHART

COLLECT FILLET MAT'L & ROCK

DOCUMENT & USE CSC CAMERA

SAMPLE ROCK TRAIL

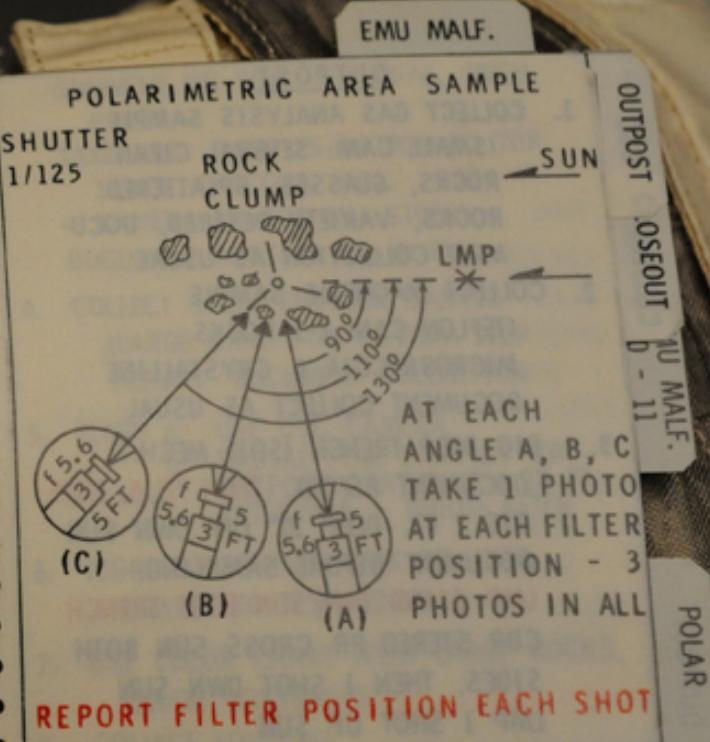
FINES IN & BESIDE - CHIP FROM ROCK  
USE CSC CAMERA  
SAMPLE CRATER RIM CRESTS

ALSEP	MAP	LAVRSE QMTS.	SRC	PHOTOS	MAP DEPLOY	CROSSROADS	VALLEY	700° SLOPE	1400° SLOPE	400° SLOPE	1100° SLOPE	WEIRD	TRIPLE	500° SLOPE	1000° SLOPE	1700° SLOPE	OUTPOST	FLANK	CONE CRATER	SUN
OUTPOST	OSEOUT	'U MA'	SITES	POLAR																

EMU MALF.

VALLEY: DOC. SAMP, PAN [7 MIN.  
SURF CHARACT.  
  
SLOPE: DOC. SAMP,  
CORE PATTERNED GND  
COMPARE WITH VALLEY  
  
CONE: 2 PANS RIM 300 FT. BASE  
POLARIZED PIX [30 MIN.  
ROLL BOULDER -24 fps MOVIE  
BOULDER TRACKS & RADIAL  
VARIATIONS. TRY COMM.  
  
FLANK: DOC. SAMP & PAN [7 MIN.  
COMPARE ROCKS W/CONE  
  
OUTPOST: DO CUFF CK LIST [30 MIN.  
  
WEIRD: DOUBLE CORE MULT. EJECTA  
DOC. SAMP SUPERIMPOSED  
ORIGIN ELONG. CRATER [15 MIN.  
  
TRIPLET: DOC. SAMP, PAN [7 MIN.  
PATTERNED GND

PHOTOS	POLAR.	NAP.	LAVERSE [QNTS.]	SRC
<u>POLARIMETRIC AREA SAMPLE</u>				
1.	LOCATE CLUMP OF ROCKS			
2.	GNOMON IN CLUMP			
3.	TELL LMP PHOTO ROCKS DOWN SUN			
	BEFORE & AFTER SAMPLING			
4.	<b>ATTACH FILTER &amp; RESET CAMERA</b>			
	<b>f5.6, 1/125</b>			
5.	GO TO CROSS SUN 5 FT. (A)			
6.	PERFORM STEPS A, B, C			
7.	COLLECT DIFFERENT KINDS OF			
	ROCKS IN CLUMP			
	(AT LEAST 4)			
8.	TAKE FAR SHOTS & DISCARD FILTER			
9.	<b>RESET CAMERA 1/250</b>			



OUTPOST	OLAR.	IAP	LAVERSE	SRC	QMTS.	OUTPOST	OSEOUT	EMU Malf.

OUTPOST

1. COLLECT GAS ANALYSIS SAMPLE (SMALL CAN): SEVERAL CLEAN ROCKS, GLASSES, SPLATTERED ROCKS, VARIETY DESIRED, DOCUMENT COLLECTION AS USUAL
2. COLLECT MAGNETIC SAMPLE (TEFLON CAN) 2-3 ROCKS MICROBRECCIA & CRYSTALLINE DOCUMENT COLLECT AS USUAL
3. DIG DEEP TRENCH (SOIL MECH.) DOCUMENT BEFORE. THEN f:5.6, 1/125 DIG 2 FT. DEEP 10° OFF DWN SUN DOCUMENT BEFORE SAMPLING:  
**LMP STAND DWN SUN EDGE TRENCH**  
CDR STEREO PR CROSS SUN BOTH SIDES, THEN 1 SHOT DWN SUN  
LMP 1 SHOT UP SUN

COMMENT ON SOIL PHYSICAL, MECH PROPS  
TAKE DOC. SAMPLES BOTTOM TO TOP, SIDES, DISCONS, FILL. CSC CAMERA IN BOTTOM, SIDES DOCUMENT BOOT PRINT IN FILL

4. COLLECT SPEC. ENVIRON SAMPLE (LARGE CAN): FINE-BOTTOM DEEP TRENCH - DOCUMENT COLLECTION
5. (LMP) a. USE CSC CAMERA  
b. RADIAL FINE SAMPLES SW OUTPOST CRATER - 3 @ 10 FT. INTERVALS - PHOTO AFTER
6. (CDR) GO BEHIND ROCK OR INTO CRATER TO TEST COMM.
7. USE COLOR CHART WITH LARGE ROCKS, COLOR CONTRASTS
8. COLLECT FOOTBALL

OUTPOST	OLAR.	IAP	LAVERS	QNTS.	CSC
<u>CSC CAMERA TIPS</u>					
REPORT SUN COMPASS/MAINTAIN STD ORIENTATION. REPORT FRAME NO.					
TAKE:					
UNEXPECTED FEATURES (TAKE SAMPLE)					
GLASS FEATURES (TAKE SAMPLE)					
ROCK/SOIL JUNCTION - UP/DOWN HILL (TAKE SAMPLE ROCK & FILLETS)					
UNDISTURBED SURFACES (LEVEL & SLOPE)					
SURFACE PATTERNS - STRIATIONS					
ROCK SURFACES - FISSURES, CLEAVAGES, BEDDING, CRYSTALLIZATION, COLOR CONTRASTS					
SMALL CRATERS ON ROCKS & SURFACES					
"LEE" OF ROCKS (FROM ROCKET BLAST)					

DATE: 24250



3+20

EVA CLOSEOUT

PLACE WEIGH BAG ON SCALE  
TAKE OFF LMP TOTE BAG  
BAGGED SAMPLES IN  
WEIGH BAG

SEAL WEIGH BAG 1  
& STOW  
WEIGH BAG 2 ON  
SCALE

BAGED & UNBAGED SAMPLES  
IN WEIGH BAG  
SEAL WEIGH BAG 2 & STOW  
STOW REMAINING SAMPLES IN  
TOTE BAG

SPECIAL, GAS SAMPLES  
IN SRC

MAG SAMPLE IN TOTE  
BAG

EMU MALF.

EMU MAL' CLOSEOUT  
0 - 11

[SOLAR WIND  
ROLLED]

OUTPOST	DLAR.	IAP	CLOSEOUT	CSC
				MAP IN ETB CORE TUBES IN SRC <b>REMOVE SRC SEAL</b> <b>CLOSE &amp; SEAL SRC</b> [COLLECT EXTRA BAG]
				COLLECT EXTRA BAG 50 FT. FROM LM <b>CAMERAS (2) IN ETB</b> <b>EXTRA MAG IN ETB</b> <b>SEQ CAMERA MAGS (3) IN ETB</b>
3+40				CSC CAM MAG IN ETB [INGRESS ✓ETB LIST (FLAP) & PREP FOR TRANSFER TRANSFER ETB & TOTE [ETB & TRANSFER SRC 2 SRC STOW EVA TERMINATION CLEAN EMU - <b>TAKE OFF TONGS</b>
				JETTISON LEC
3+52				INGRESS [LEC TO CDR]
4+00				REPRESS

#### EMU MALFUNCTIONS

- EMU 1: VENT/TONE [P]**  
FAN OFF/ON  
IF FLAG STILL ON AFTER 10 SEC, ACTUATE OPS AND PURGE VLV
- EMU 2: PRESS/TONE [O]**  
ACTUATE OPS  
IF FLAG ON, CK. CUFF GAGE,  
VER. TM; OPS OFF (SEN. FAIL)
- EMU 3: O<sub>2</sub>/TONE [O]**  
CK. LOW/HIGH PGA PRESS OR PLSS O<sub>2</sub>  
DECREASING  
IF LEAK CONFIRMED, ACT. OPS  
IF HIGH PGA PRESS, ACT. OPS,  
PLSS O<sub>2</sub> OFF (PLSS REG FAIL)  
IF NO APPARENT FAIL, VER. TM  
(SEN. FAIL)

EMU MALF. 1U MALF.  
1-3 1U MALF.  
1U MALF.  
1U MALF.  
1U MALF.  
1U MALF.  
1U MALF.  
1U MALF.

OUTPOST	OLAR.	IAP	CLOSEOUT	EMU MALF.
				4 - 5

EMU 4: H<sub>2</sub>O/TONE (AI)

VERIFY FEEDWATER OPEN  
IF CLOSED: DIV VLV MIN COOL,  
FEEDWATER OPEN, WAIT 4 MIN.  
IF ADDITIONAL COOL REQ'D, ACTUATE  
OPS AND PURGE VLV

EMU 5: TONE/NO FLAGS

CUFF GAGE: IF < 3.4, ACTUATE OPS  
IF CUFF GAGE > 3.4 & TONE OFF:  
CYCLE MODE SW MOMENTARILY -  
NO TONE, NO FAILURE.  
IF TONE ON AGAIN:  
FAN OFF 5 SEC, VENT FLAG (PI)  
SHOULD COME ON; FAN ON. IF  
NO FLAG, ACTUATE OPS AND PURGE  
VLV (FLAG FAID)

EMU 5: (CONT)

OBSERVE PLSS O<sub>2</sub>: IF DECREASING,  
ACTUATE OPS.  
IS FEEDWATER CLOSED: IF CLSD,  
DIV VLV MIN COOL, FEEDWATER  
OPEN. AFTER 4 MIN, IF COOL  
INADEQUATE, ACTUATE OPS AND  
PURGE VLV.

EMU 6: CUFF GAGE < 3.7 - NO FLAG

ACTUATE OPS: CUFF GAGE SHOULD  
RISE (EMU LEAK OR REG. SHIFT)  
IF NO GAGE RESPONSE, VERIFY TM -  
OPS OFF (GAGE FAID)

EMU MALF. 1U MALF.  
5 (CONT) - 6 - 11

OUTPOST    DLAR.    IAP    EMU MALF. 1U MALF.  
7 - 9                  4 - 5

EMU 7: PLSS O<sub>2</sub> QUANTITY ABNORMAL  
CK CUFF GAGE OR O<sub>2</sub> FLAG [OI]  
IF LEAK CONFIRMED, ACT OPS  
IF HIGH PGA PRESS, ACT OPS,  
PLSS O<sub>2</sub> OFF (PLSS REG FAIL)  
IF NO APPARENT FAIL, VERIFY TM  
(GAGE FAIL)  
EMU 8: CUFF GAGE > 4.0  
IF O<sub>2</sub> FLAG [OI], OR PLSS O<sub>2</sub> DEC.,  
ACT OPS AND PLSS O<sub>2</sub> OFF (PLSS  
REG FAIL)  
IF NOT, VERIFY TM (POSS. GAGE FAIL)  
EMU 9: LOSS OF PUMP NOISE  
IF NO SIDETONE, ACT OPS AND  
PURGE VALVE (POWER FAIL)  
IF SIDETONE OK: CHECK PUMP ON,  
VERIFY TM FOR PUMP CONDITION  
IF ADDITIONAL COOLING REQUIRED,  
ACTUATE OPS AND PURGE VALVE



EMU 10: COOLING INADEQUATE  
VERIFY DIV VLV MAX  
ACTUATE GAS TRAP FOR 5 SEC.,  
IF FEASIBLE  
AFTER 3 MIN., IF ADDITIONAL  
COOLING REQUIRED, ACTUATE OPS  
AND PURGE VLV  
EMU 11: LOSS OF VOICE COMMUNICATION  
CHECK VOL CONTROLS (WHEEL A,  
BLADE B)  
CYCLE PTT SW - MAIN & MOM  
CDR MODE SW TO B, LMP TO A  
(HAND SIGNALS)  
IF NO COMM, CDR TO A, LMP TO B

EMU MALF.  
10 - 11

OUTPOST OLAR.

11U Malf. 11U Malf.  
- 9 - 4-5

CHECK FOR CONSTRUCTION NUMBER A  
GRADE 81  
CHARGE #11 28 - MAIN & MOW  
CAR MODE SW TO S. QM TO A  
SHADE SIGNIFICANTLY  
RE AD COMM. CAR TO A. LUM 20 8  
VE. IN PRACTICALLY  
IF ADDITIONAL COOLING REQUIRED