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DISPLAY LOSS DURING POWER TRANSFER (WARM RESTART)

> WARNING
> CO2 buildup may occur while fan is off

> NOTE
> EMU will be w/o comm following step 2 or step 10. Step 3 or step 11 should be pre-coordinated

DCM	1.	FAN – OFF
		If PWR – SCU:
AW18H	2.	PWR/BATT CHGR EMU 1(2) BUS SEL – OFF (7 sec)
DCM	3.	PWR – BATT
	4.	√DISPLAY – 'O2 POS – XX'
AW18H	5.	PWR/BATT CHGR EMU 1(2) MODE – PWR BUS SEL – MNA(MNB)
	6.	√EMU INPUT 1(2) volts = 18.0-20.0
DCM	7.	PWR – SCU
	8.	√DISPLAY – 'O2 POS – XX'
		If PWR – BATT:
	9.	PWR – SCU
AW18H	10.	PWR/BATT CHGR EMU 1(2) BUS SEL – OFF (7 sec)
DCM	11.	PWR – BATT
	12.	√DISPLAY – 'O2 POS – XX'
	13.	If reqd, FAN – ON

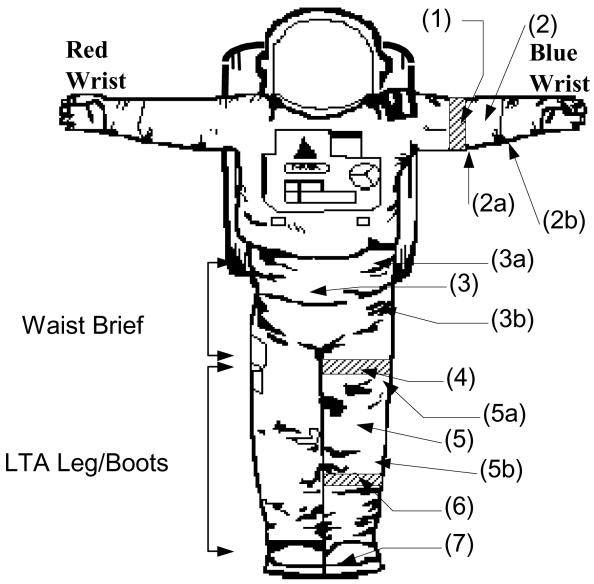
VACUUM H2O RECHARGE (MANNED)

> WARNING
> Procedure should be used only if performing a contingency EVA

EV		1.	Perform AIRLOCK INGRESS, Cuff C/L, 43 (Close hatch, partially engage latches)
		2.	√Helmet purge vlv – cl, locked
	DCM	3.	√PURGE vlv – cl (dn)
		4.	√WATER – OFF
IV	MO13Q	5.	√ARLK H2O S/O VLV – OP (tb-OP)
	MD(flr)	6.	√EMU O2 ISOL VLV – OP
	ML86B:C	7.	√cb MNC EXT ARLK HTR LINE ZN 1,2 (two) – op
EV		8.	Remove DCM cover
		9.	Connect SCU to DCM
		10.	COMM mode – HL
	AW82B	11.	√EV-1(EV-2) O2 vlv – OP
	AW18H	12.	PWR/BATT CHGR EMU 1(2) BUS SEL – MNA(MNB)
	DCM	13.	PWR – SCU (fwd), WARN TONE
	R11L		If SPLY H2O XOVR VLV closed (tb-CL or bp) (water transfer config):
		14.	SPLY H2O TKA OUTLET – CL (tb-CL)
			If SPLY H2O XOVR VLV open (tb-OP) (nominal config):
IV	L1	15.	√RAD CNTLR OUT TEMP – NORM
		16.	√FLASH EVAP CNTLR PRI A,B (two) – OFF
	ML31C	17.	SPLY H2O TKD OUTLET – CL (tb-CL)
	R11L	18.	SPLY H2O TKB OUTLET – CL (tb-CL) √TKA OUTLET – CL (tb-CL) TKC OUTLET – OP (tb-OP)
EV	AW82D	19.	√EMU 1(2) H2O WASTE – CL (tb-CL) SPLY – OP (tb-OP)

> WARNING
> O2 will be off. IV1 stand by inner hatch
> Equal vlvs for emergency repress

STS-121 NOMINAL EMU SIZING MATRIX



SEMU	HUT SIZE/ SEMU Number	(1) Arm Sizing Ring	(2a) Arm Cam	(2) Lower Arm	(2b) Wrist Cam	Phase VI Glove
Sellers (Sl)	L / 3015	None	Long	04	Long	6BB
Fossum (Fs)	L / 3003	0.5 inch	Short	03	Short	6BB

NOTE

Record any changes made in-flight to EMU sizing. Report changes to MCC-H

LTA	(3a) Brief Upper Cam	(3) Adjust Waist Brief	(3b) Brief Lower Cam	(4) Thigh Sizing Ring	(5a) Leg Upper Cam	(5) Leg Segment	(5b) Leg Lower Cam	(6) Leg Sizing Ring	(7) Boot/ Insert	LCVG/ BLVD	CCA/CCEM
Sellers (Sl)	Short	02	Long	None	Short	03	Long	1.0 inch	02 / T.S. (Lg)	03 / 05	03 / 317
Fossum (Fs)	Short	01	Short	None	Short	03	Long	1.5 inch	02 / T.S. (Lg)	04 / 05	03 / 311

NOTE

Record any changes made in-flight to EMU sizing. Report changes to MCC-H

EMU CONTINGENCY RESIZE MATRIX

Perform EMU RESIZE (12-17) per matrix as directed by MCC-H

FOR LOSS OF:	EV1 (Sellers) Prime Identifier – Sl 1	EV2 (Fossum) Prime Identifier – Fs 1
HUT/PLSS	(Large ORU SEMU #3015) 1. Use Krikalev SEMU L /???? 2. Install EV1 Arms/rings/gloves 3. Use EV1 CCA 4. Use EV1 LTA	(Large ORU SEMU #3003) 1. Use Krikalev SEMU L /???? 2. Install EV2 Arms/rings/gloves 3. Use EV2 CCA 4. Use EV2 LTA
Waist Brief	(02 Adjustable) 1. Use Phillips '02' Waist Brief 2. Set Cams: 3a-Sht, 3b-Lng 3. Install EV1's Leg/Boot	(01 Adjustable) 1. Use Krikalev '01' Waist Brief 2. Set Cams: 3a-Sht, 3b-Sht 3. Install EV2's Leg/Boot
Gloves	(6BB) 1. Use EV1 '6BB' B/U gloves	(6BB) 1. Use EV2 '6BB' B/U gloves
LCVG	(03) 1. Use EV1 '03' B/U LCVG 2. Transfer biomed, dosimeter	(04) 1. Use EV2 '04' B/U LCVG 2. Transfer biomed, dosimeter
Lower Arm Segment	(04) 1.√Wrist color of Arm Segment 2. Use Krikalev '04' Lower Arms 3. Set Cams 2a-Lng, 2b-Lng	(03) 1.√Wrist color of Arm Segment 2. Use EV2 '03' B/U Lower Arms 3. Set Cams 2a-Sht, 2b-Sht
Leg Segment	(03) 1. Use Krikalev '03' Leg Segment 2. Set Cams 5a-Sht, 5b-Lng	(03) 1. Use Krikalev '03' Leg Segment 2. Set Cams 5a-Sht, 5b-Lng
Sizing Rings	Leg: Use ISS '1.0 in' B/U rings	Arm: Use Krikalev '0.5 in' rings Leg: Use Krikalev '1.5 in' rings
Boot/BSI	(02/Thermal Slipper) 1. Use Phillips 02 Boot 2. Use EV1 Thermal Slipper	(02/Thermal Slipper) 1. Use Phillips 02 Boot 2. Use EV2 Thermal Slipper
CCA	(03/317) 1. Use EV1 back-up CCA	(03/311) 1. Use EV2 back-up CCA