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1 PROJECT CODE SA-AMS		2 JPIC CODE AMS		TASK PERFORMANCE SHEET NASA - LYNDON B. JOHNSON SPACE CENTER																																	
TYPE	3 A CONFIGURATION CHANGE <input type="checkbox"/>		4 TPS NO 2A0720269		5 PAGE 1 OF 3																																
	PERMANENT <input type="checkbox"/> TEMPORARY <input type="checkbox"/>		8 MOD SHEET(S) NUMBER(S) N/A		7 ORG. EA	8 SYSTEM AMS																															
	B NONCONFIGURATION CHANGE <input checked="" type="checkbox"/>				9 NEED DATE 12/10/07																																
10 PART NAME CO2 Vessel Blanket Assembly			11 PART NO /DRAWING NO. SEG39137629-301, SEG39137629-302		12 SERIAL/LOT NO 1001, 1003																																
14 APPLICABLE DOCUMENTS N/A			15 CONTRACT NO./JOB NO. NNJ05HI05C		13 TIME/CYCLE/SHELF LIFE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																																
18 SHORT TITLE OF TPS Off-line Fit Check Class I CO2 Vessel Blanket Assy on AMS at CERN					17 ENG. EVAL <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																																
20 OPER SEQ. NO.		21 OPERATIONS (Print, Type, or Write Legibly) 11-1-07				19 ADP UPDATE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																															
		<p>NOTE: This is Crit 3 hardware. The purpose of this TPS is to perform an off-line fit check of the CO2 Vessel Blanket Assembly onto the Class I AMS hardware at the Center European Research Nuclear (CERN). The fit check will be photo documented and an Installation Procedure TPS will be developed for performing the final installation of the MLI Blankets to the respective AMS component.</p> <ol style="list-style-type: none"> Open this TPS. Review facility safety procedures before beginning work. Ensure all necessary protective garments are donned according to clean room guidelines in the AMS assembly facility where fit check work will be performed. Locate the following items in CERN Clean Room: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>QTY</th> <th>P/N</th> <th>Description</th> <th>S/N</th> <th>L/N</th> <th>Shelf Life</th> <th>Class</th> </tr> </thead> <tbody> <tr> <td>1 ea</td> <td>SEG39137629-301</td> <td>CO2 Vessel Blanket Assy</td> <td>1001</td> <td>N/A</td> <td>N/A</td> <td>1</td> </tr> <tr> <td>1 ea</td> <td>SEG39137629-302</td> <td>CO2 Vessel Blanket Assy</td> <td>1003</td> <td>N/A</td> <td>N/A</td> <td>1</td> </tr> <tr> <td>1 roll</td> <td>ST90M078-02</td> <td>Aluminized Mylar Tape</td> <td>N/A</td> <td>01369655-001</td> <td>09/10/08</td> <td>1</td> </tr> </tbody> </table> Prepare a clean surface for un-bagging the AMS MLI Blankets. Remove the CO2 Vessel Blanket Assembly, P/N SEG39137629-301, S/N 1001, and the CO2 Vessel Blanket Assembly, P/N SEG39137629-302, S/N 1003, from pink poly. Perform a visual inspection of the humidity indicators and record percentage reading below Reading: <u>Less than 10% for SEG39137629-302, S/N 1003</u> <u>20% for SEG39137629-301, S/N 1001</u> 				QTY	P/N	Description	S/N	L/N	Shelf Life	Class	1 ea	SEG39137629-301	CO2 Vessel Blanket Assy	1001	N/A	N/A	1	1 ea	SEG39137629-302	CO2 Vessel Blanket Assy	1003	N/A	N/A	1	1 roll	ST90M078-02	Aluminized Mylar Tape	N/A	01369655-001	09/10/08	1	22 TECH		23 QADV	
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24 ORIGINATOR T. Wille TERRY WILLE						DATE 11/01/07		25 FINAL ACCEPTANCE STAMP AND DATE 12-4-07																													
APPROVALS (Printed or Typed and Signed)																																					
26 PROJECT ENGINEER J. Cornwell J. Cornwell						DATE 11-01-07		27 QUALITY ENGINEER Steve Caldwell STEVE CALDWELL		DATE 11-1-07																											
28 N/A		DATE N/A		29 N/A		30 N/A																															
30 N/A		DATE N/A		31 N/A		32 N/A																															
				Rm. 114 QARC																																	

TASK PERFORMANCE SHEET CONTINUATION PAGE NASA - LYNDON B. JOHNSON SPACE CENTER		5 Page <u>2</u> of <u>3</u>
		4. TPS NO 2A072026A
		6. MOD NO. N/A
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION
		22. TECH 23. GAT/IV
8.	Perform a visual inspection of the MLI Blankets for signs of damage and record any findings. Findings: <u>NO DAMAGE</u>	TLW 11-22-07
9.	Coordinate with the persons responsible for the integration of the MLI Blankets to the AMS hardware and discuss how the MLI Blankets will be attached to the hardware. After a safe plan of attachment/installation has been agreed on, begin the installation fit check and document the steps taken to perform each task so they can be used for developing a flight installation procedure. Fit Check Steps: <u>(1) MEASURE LOCATIONS OF PENETRATIONS FOR SEG 39137629-301. (2) MAKE SKETCH OF LOCATIONS OF CUTS. (3) CUT SLITS AND HOLES IN MLI. (4) INSTALL SEG 39137629-301 ONTO FRONT OF CO2 VESSEL. (5) USE ALUMINIZED MYLAR TAPE, P/N 3790M078-02, TO TAPE SLITS BACK TOGETHER. (6) MEASURE LOCATIONS OF PENETRATIONS FOR SEG 39137629-302. (7) MAKE SKETCH OF LOCATIONS OF CUTS. (8) CUT SLITS AND HOLES IN MLI. (9) INSTALL SEG 39137629-302 ONTO BACK OF CO2 VESSEL AND OVERLAP -302 ONTO -301 BY APPROXIMATELY 3/4". (10) USE ALUMINIZED MYLAR TAPE TO TAPE SLITS BACK TOGETHER. (11) USE ALUMINIZED MYLAR TAPE TO ATTACH -302 TO -301. ROTATE GAS BOX AS REQUIRED TO ALLOW TAPING THE ENTIRE CIRCUMFERENCE. (12) ON THE -301 AND -302, TAPE THE DISC PART OF THE MLI TO THE CYLINDER PART OF THE MLI SO THE PROTECTIVE COVER CAN BE REINSTALLED BY OTHERS.</u>	TLW 11-22-07
10.	Perform a visual inspection of the quality of fit of the MLI Blankets onto the AMS hardware and document any modifications that may be necessary. Quality of fit: <u>EXCELLENT FIT.</u> Blanket modifications required: <u>MODIFICATIONS REQUIRED DURING INSTALLATION ARE SHOWN ON ATTACHED SKETCH.</u>	TLW 11-22-07
11.	Upon completion of the MLI Blanket fit check, remove the MLI Blankets and perform a visual inspection of the MLI Blankets for signs of damage. Record and findings: <u>NO DAMAGE.</u>	TLW 11-22-07
12.	Record locations of any additional penetrations that will be required to allow the attachment of the MLI Blankets to the AMS hardware: <u>THERE ARE NO FURTHER ADDITIONAL PENETRATIONS OTHER THAN THE PENETRATIONS DOCUMENTED IN STEP 10.0 OF THIS TPS AND THE ATTACHED SKETCH.</u>	TLW 11-22-07
13.	Re-bag the AMS MLI Blankets and place it in a protected area for temporary storage.	TLW 11-22-07
14.	Close this TPS.	TLW 11-22-07

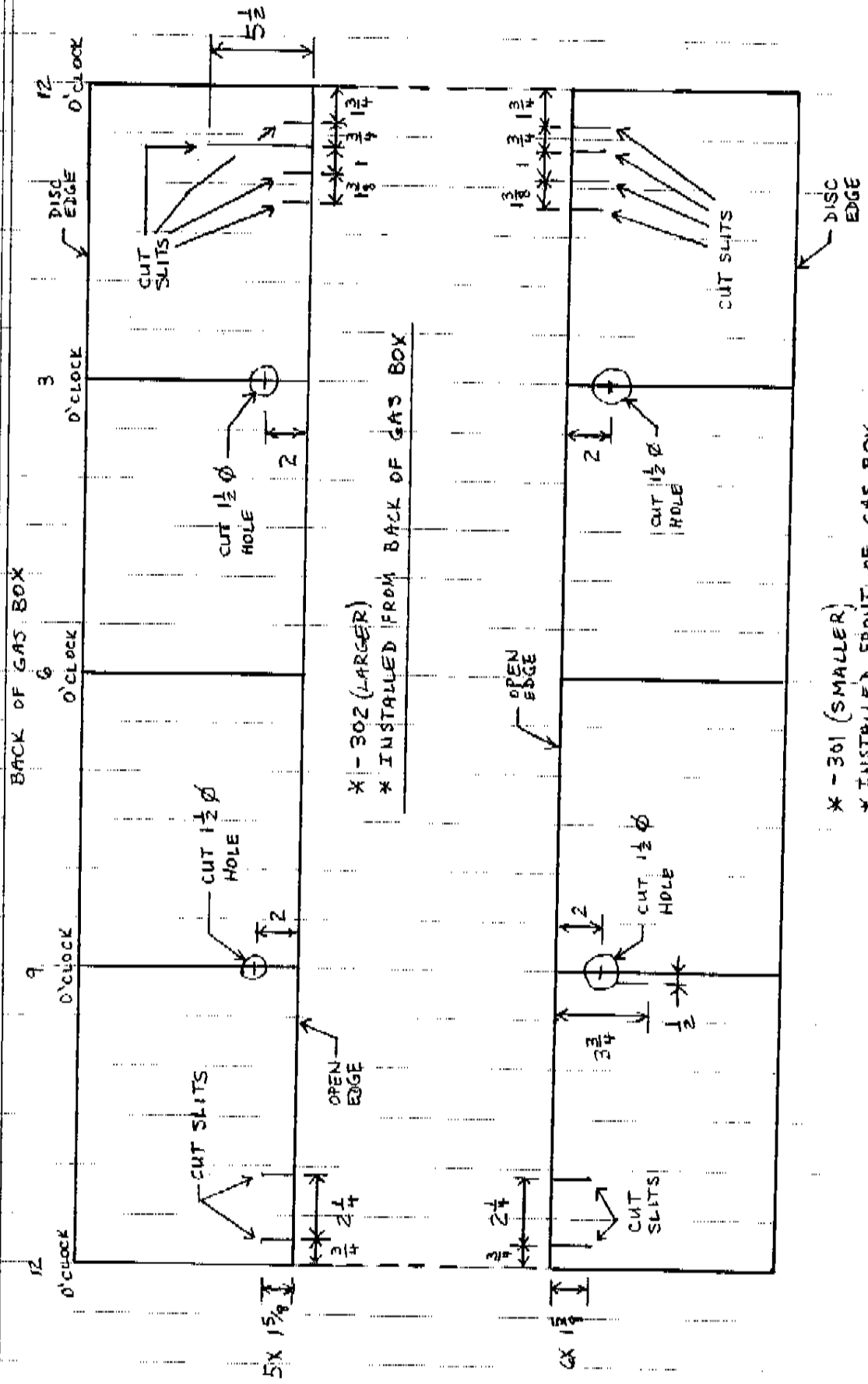


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CO2 VESSEL MLI ROLLED OUT VIEW (CYLINDER PORTION ONLY)

- * CLOCKWISE LOOKING FROM FRONT OF GAS BOX
- * INSIDE VIEW OF MLI



FRONT OF GAS BOX