

~ESCG~

1. PROJECT CODE		2. JPIC CODE		TASK PERFORMANCE SHEET				
SA-AMS		AMS		NASA - LYNDON B. JOHNSON SPACE CENTER				
3 T Y P E	A	CONFIGURATION CHANGE	<input type="checkbox"/>	4. TPS NO.	2A0720260	5. PAGE	1 OF 13	
	PERMANENT	<input type="checkbox"/>	TEMPORARY	<input type="checkbox"/>	6. MOD SHEET(S) NUMBER(S)	7. ORG.	8. SYSTEM	
B	NONCONFIGURATION CHANGE	<input checked="" type="checkbox"/>		N/A	EA	AMS	9. NEED DATE	
10. PART NAME			11. PART NO./DRAWING NO.		12. SERIAL/LOT NO.		13. TIME/CYCLE/SHELF LIFE	
TRD Gas Box Blanket Assembly			SEG39137631-301		1001		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14. APPLICABLE DOCUMENTS				15. CONTRACT NO./JOB NO.		16. HAZ. TEST		
N/A				NNJ05HT05C		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
18. SHORT TITLE OF TPS							19. ADP UPDATE	
Fit Check Class I TRD Gas Box Blanket Assembly on AMS in Clean Room at CERN							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
20. OPER SEQ NO		21. OPERATIONS (Print, Type, or Write Legibly)					VERIFICATION	
		ESCG 11-1-07					22. TECH 23. QADV	
<p>NOTE: This is Crit 3 hardware. The purpose of this TPS is to perform a fit check of the TRD Gas Box 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 Blanket to the respective AMS component.</p>								
1.		Open this TPS.					TLW 11-28-07	
2.		Review facility safety procedures before beginning work.					TLW 11-28-07	
3.		Ensure all necessary protective garments are donned according to clean room guidelines in the AMS assembly facility where fit check work will be performed.					TLW 11-28-07	
4.		Locate the following items in CERN Clean Room: QTY P/N Description S/N L/N ShelfLife Class 1 ea SEG39137631-301 TRD Gas Box Cover Blkt Assy 1001 N/A N/A I					TLW 11-28-07	
5.		Prepare a clean surface for un-bagging the AMS MLI Blanket.					TLW 11-28-07	
6.		Remove the TRD Gas Box Blanket Assembly, P/N SEG39137631-301, S/N 1001 from pink poly.					TLW 11-28-07	
7.		Perform a visual inspection of the humidity indicators and record percentage reading below Reading: 10%					TLW 11-28-07	
8.		Perform a visual inspection of the MLI Blanket for signs of damage and record any findings. Findings: NO DAMAGE					TLW 11-28-07	
24. ORIGINATOR			DATE		25. FINAL ACCEPTANCE STAMP AND DATE			
T. Wille TERRY WILLE			11/01/07		ESCG 12-4-07			
APPROVALS (Printed or Typed and Signed)								
26. PROJECT ENGINEER			DATE		27. QUALITY ENGINEER		DATE	
J. Connors J. Connors			11/01/07		Steve Caldwell STEVE CALDWELL		11-1-07	
28.			DATE		29.		DATE	
N/A			N/A		ORIGINAL N/A		N/A	
30.			DATE		31.		DATE	
N/A			N/A		Robert Lipp N/A		N/A	
Rm. 114 QARC								

<b>TASK PERFORMANCE SHEET</b> CONTINUATION PAGE NASA - LYNDON B. JOHNSON SPACE CENTER		Page <u>2</u> of <u>23</u>
		4. TPS NO. <u>2A0720260</u>
		5. MOD NO. <u>N/A</u>
20 OPER SFG NO	21 OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION
		22. TECH   23. Q/VDV
9.	Coordinate with the persons responsible for the integration of the MLI Blanket to the AMS hardware and discuss how the MLI Blanket 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. ① OPEN THE MLI INTO A FLAT POSITION WITH INSIDE OF MLI FACING THE TRD GAS BOX. ② FEED THE PORT SIDE OF THE MLI BETWEEN THE USS AND THE WAKE SIDE OF GAS BOX UNTIL THE WAKE SIDE OF MLI IS AGAINST THE WAKE SIDE OF GAS BOX. ③ CLOSE THE PANELS OF THE MLI AROUND THE GAS BOX SO THAT THE PORT SIDE OF THE MLI IS AGAINST THE PORT SIDE OF THE GAS BOX AND THE STARBOARD SIDE OF THE MLI IS AGAINST THE STARBOARD SIDE OF GAS BOX WHILE MAKING SURE THE GAS BOX VENT TUBES FIT THROUGH THE MLI VENT TUBE SLEEVE ON THE PORT SIDE. ④ THREAD THE PRE-INSTALLED LACING CORD THROUGH FLAP ON RAM SIDE OF MLI. ⑤ MAKE SKETCH SHOWING LOCATION OF REQUIRED CUTOUT. ⑥ CUT SLITS PER SKETCH AND ATTACH SKETCH TO THIS TPS. ⑦ PUSH WIRE BUNDLE THROUGH SLITS WHILE MLI IS STILL INSTALLED. ⑧ ASSESS QUALITY OF FIT. ⑨ REMOVE MLI.	TLW 11-21-07
10.	Perform a visual inspection of the quality of fit of the MLI Blanket onto the AMS hardware and document any modifications that may be necessary.  Quality of fit: <u>Good</u>  Blanket modifications required: <u>TWO SLITS WERE CUT IN THE MLI TO ALLOW WIRE BUNDLE TO PENETRATE MLI. SEE ATTACHED SKETCH.</u>  Attachment point modifications required: <u>ADDITIONAL ATTACHMENT POINTS WILL BE REQUIRED AT THE TOP OF THE MLI. THESE ATTACHMENT POINTS WILL BE DOCUMENTED ON THE FLIGHT INSTALLATION TPS.</u>	TLW 11-29-07
11.	Perform a grounding test and record the results. Also, note any grounding point attachment modifications required. Results: <u>0.2 ohms</u>  Grounding point attachment modifications required: <u>NO ATTACHMENT POINT MODIFICATIONS REQUIRED.</u>	TLW 11-30-07
12.	Upon completion of the MLI Blanket fit check, remove the MLI Blanket and perform a visual inspection of the MLI Blanket for signs of damage. Record any findings: <u>NO DAMAGE.</u>	TLW 11-30-07
13.	Record locations of any additional penetrations that will be required to allow the attachment of the MLI Blanket to the AMS hardware: <u>ADDITIONAL ATTACHMENT POINTS WILL BE REQUIRED AT THE TOP OF THE MLI. THESE ATTACHMENT POINTS WILL BE DOCUMENTED ON THE FLIGHT INSTALLATION TPS.</u>	TLW 11-30-07
14.	Re-bag the AMS MLI Blanket and place it in a protected area for temporary storage.	TLW 11-30-07
15.	Close this TPS.	TLW 11-30-07

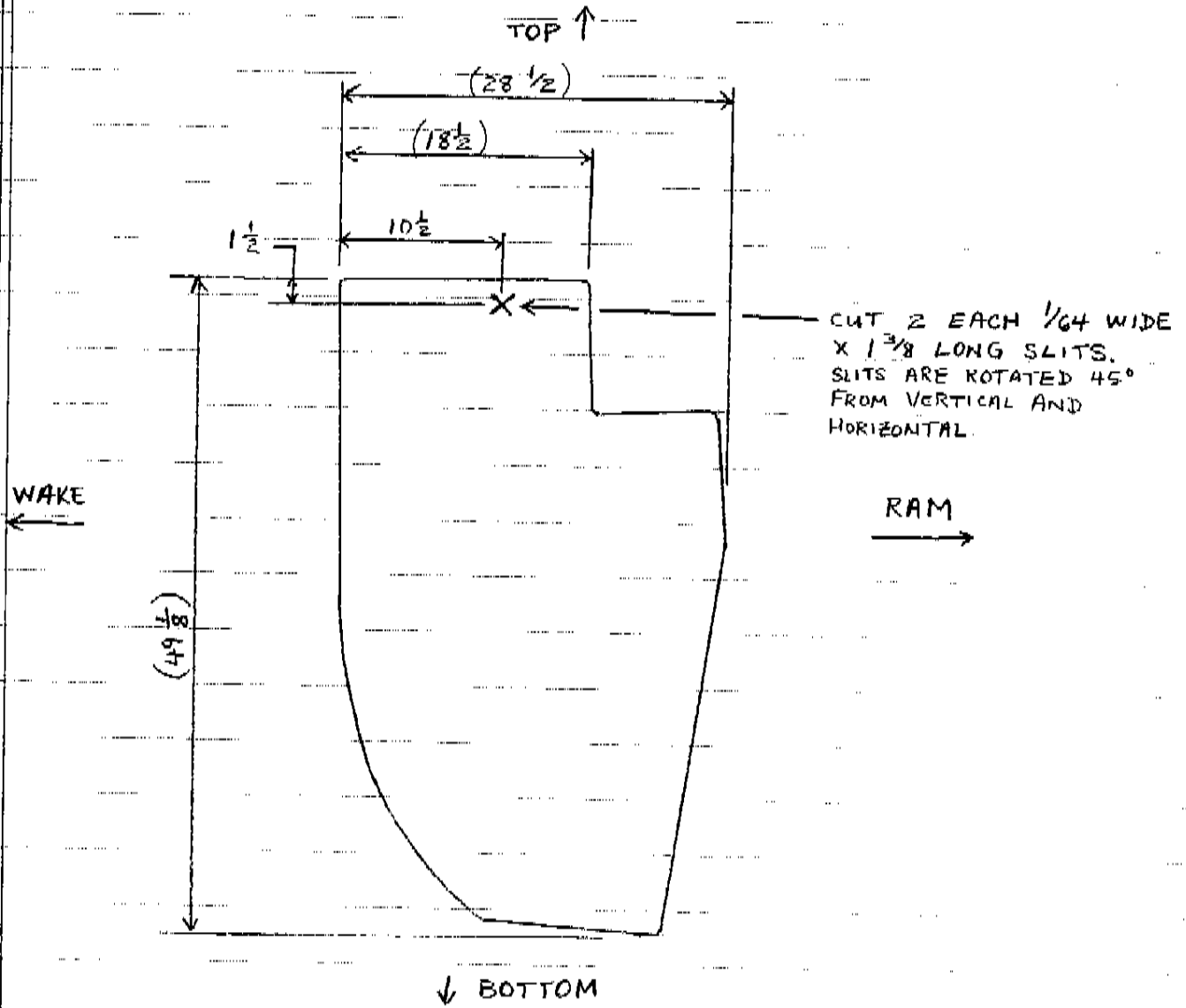


12-4-07

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TRD GAS BOX COVER BLANKET MODIFICATION



ELEVATION VIEW LOOKING FROM STARBOARD SIDE