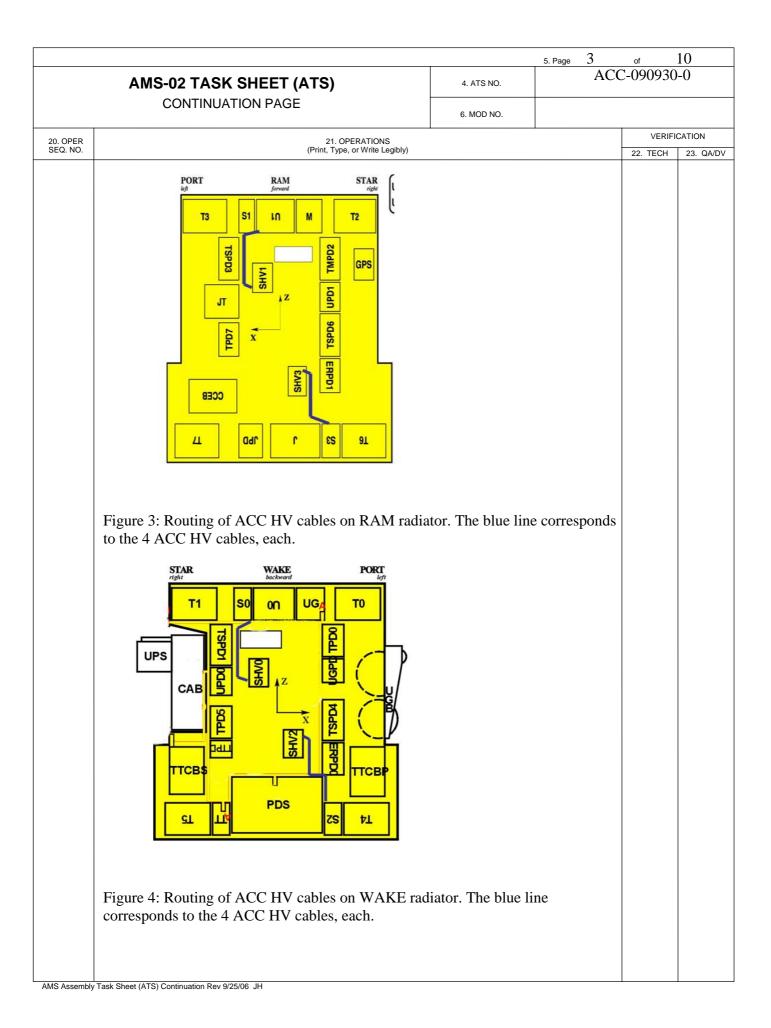
1. PROJECT CODE			2. JPIC CODE AMS			AMS-02 TA	ASK SHEET (A	ATS)			
	SA-A	MS			M						
3. T	Α	CONFIGU	RATION CHANGE			NO. ACC-090930-0 5. F			1	OF 10	
Y P E	PERMA	NENT	TEMPORA	RY	o. Mob chilling	, NOMBER(O)					
	B		FIGURATION CHANGE	11 Sub D	etector Name		12. SERIAL/LOT NO.				
					ncidence Cou	nter ACC	12. SERIAL/LOT NO.				
14.	APPLICAE	BLE DOCUME	ENTS								
	ATS TITLE		Cabling of PMT	S-Boxes to S	S-Crates, Fli	ght-integration					
	OPER				21. OPERATION Print, Type, or Write L				VERIFICATION		
					· · · · · · · · · · · · · · · · · · ·			22. 1	ECH	23. QA/DV	
	AMS-02 ACC HV and Signal Cabling of PMT-Box sector 24, side Z+,										
				Pre-i	ntegration						
1		Open	this ATS								
			responsible eng ges in the series			CC flight cabling ences.	decides about				
2	2.	Locati	ion and routing	of ACC sig	nal (4) and l	HV (4) cables of					
		_	- PMT-Box Sector 08 Z+ side to S0 crate and SHV0,								
		_	PMT-Box Se	Sector 24 Z+ side to S1 crate and SHV1,							
		_	PMT-Box Se	ector 08 Z-s	side to S2 cr	ate and SHV2,					
		_	PMT-Box Se	ector 24 Z-s	side to S3 cr	ate and SHV3, rea	spectively.				
		(see]	Figures 1, 2, 3 a	and 4)							
24.	ORIGINAT	FOR			DATE	25. FINAL ACCEPTANCE S	STAMP AND DATE				
T	h. Kirı	1									
				,	APPROVALS (Printed	or Typed and Signed)					
26. PROJECT ENGINEER M. Wlochal			DATE	27. QUALITY ENGINEER	27. QUALITY ENGINEER		DA	TE			
					29.						
28.					20.						
30.						31.					

10 5. Page ACC-090930-0 **AMS-02 TASK SHEET (ATS)** 4. ATS NO. **CONTINUATION PAGE** 6. MOD NO. VERIFICATION 20. OPER SEQ. NO. 21. OPERATIONS (Print, Type, or Write Legibly) 22. TECH 23. QA/DV Figure 1: Location of ACC PMT-Box Sector 08 Z+ and Sector 24 Z+ side. The blue line corresponds to the 4 ACC signal and 4 ACC HV cables each.

Figure 2: Location of ACC PMT-Box Sector 08 Z- and Sector 24 Z- side. The

blue line corresponds to the 4 ACC signal and 4 ACC HV cables each.



		Ę	5. Page 4 of 10
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
3.	Connections on S0, S1, S2 and S3 crates. ACC signal	l cables are connec	22. TECH 23. QA/DV
3.	SFEA2 CH1, CH2, CH3 and CH4.	ir caoles are connec	
	TOP AND ROBERT HIGH DAY. THE MAN WANT ME. 1995		
	SFET2a SFET2b SFET2c SF	ET2d	
	SDR2 SFET2 SFET2 SPT2 SFET2 SF	ET2 SFEA2	
	8 III III III III III III III III III I	8 🔾	
		80	
	FEC 0 85 0 85 0 85 0 85 0 85 0 85 0 85 0 8	0	
	Ch4	@ # #	
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	84 III		
	INEN TORINEN TORINEN TORINEN TORINEN TORINE	S TOBBWTH ACC	
		=	
		0 0	
	Slot 1 Slot 2 Slot 3 Slot 4 Slot 5 S	lot 6 Slot 7	
	Figure 5: Front panel of S0, S1, S2 and S3 crates.		
AMS Asserb	Task Sheet (ATS) Continuation Rev 9/25/06 JH		

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	CONTINUATION PAGE	6. MOD NO.			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFIC	
4.	Connections on SHV0, SHV1, SHV2 and SHV3 HV cables are connected to connectors no. 20, 21, 22 and		ACC HV	22. TECH	23. QA/DV
	23 • 22 15 • 14 7 • 6 21 • 20 13 • 12 5 • 4 19 • 18 11 • • 10 3 • 2 2 17 • 16 9 • 8 1 • • 0				
	Figure 6: SHV0, SHV1, SHV2 and SHV3 HV power	er Supply for To	F and ACC		
5.	Balcony for cabling of S0, S1, S2 and S3 crates				
	Figure 7: Mechanics of S0, S1, S2 and S3 crates in	ncluding cable b	alconies		
AMS Assembly	Task Sheet (ATS) Continuation Rev 9/25/06 JH				

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	ANIS-UZ TASK SHEET (ATS) 4. ATS NO.				C-090930	-0	
	(CONTINUATION PAGE	6. MOD NO.				
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFIC 22. TECH	CATION 23. QA/DV	
6.	Routing a to S0-crat	nd cabling of ACC HV and signal cables e.	of PMT box secto	r 08 Z+ side			
6.1	Remove cable ties for temporary fixation of ACC HV and signal cables at PMT box sector 08 Z+ side.						
6.2	closest to cable ties	Route 4 ACC signal and 4 ACC HV cables to the lower edge of S0 cable balcony closest to SFEA (slot7). Form a bundle and stabilize it with surrounding flight cable ties every ten centimeters. Open the bundle at lower edge of S0 crate. Route the 4 signal cables to their positions on SFEA2 board (see section 9.).					
6.3	Plug in by	hand – without further tools – ACC sign	al cables as in foll	owing table:			
	PMT Prod. No.	S	0 SFEA2 (slot 7) onnector no.				
	8	ACC SL 8	CH1				
	12	ACC SL 12	CH2		ļ		
	10	ACC SL 10	СНЗ				
	1	ACC SL 1	CH4				
6.4	stabilize i HV cable		ten centimeters. Co	onnect ACC			
	Prod. Nr.	Label no.	20				
	12	ACC HV 8 ACC HV 12	20				
	10	ACC HV 12	21 22				
	1	ACC HV 10	23				
		ACC IIV I					
6.5	connector	nnections between ACC signal cable and with glue. WELD 2216 B/A, Lot Number: Date:	connector and HV	cable and			

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	AMS	-02 TASK SHEET (ATS)	4. ATS NO.	ACC	C-090930	-0
	(CONTINUATION PAGE	6. MOD NO.			
20. OPER SEQ. NO.		21. OPERATIONS (Print, Type, or Write Legibly)				CATION
6.5.1		C signal cable plug and connector and HV isopropanol.	V cable plug and c	connector to	22. TECH	23. QA/DV
6.5.2		C signal cable plug and connector and HV-WELD 2216 B/A.	cable plug and co	onnector with		
7.	Routing a to S1-crat	nd cabling of ACC HV and signal cables e.	of PMT box secto	or 24 Z+ side		
7.1		table ties for temporary fixation of ACC For 24 Z+ side.	HV and signal cab	les at PMT		
7.2	closest to cable ties	ACC signal and 4 ACC HV cables to the lose SFEA (slot7). Form a bundle and stabilize every ten centimeters. Open the bundle at all cables to their positions on SFEA2 boards.	e it with surround t lower edge of S1	ing flight crate. Route		
7.3	Plug in by	hand – without further tools – ACC sign	al cables as in foll	lowing table:		
	PMT Prod. No.	G	1 SFEA2 (slot 7) onnector no.			
	18	ACC SL 18	CH1			
	13	ACC SL 13	CH2			
	15	ACC SL 15	СНЗ			
	19	ACC SL 19	CH4			
7.4	Route 4 ACC HV cables according figure 3 to SHV1 brick. Form a bundle and stabilize it with surrounding flight cable ties every ten centimeters. Connect ACC HV cables as in following table and fix them by hand (no tool needed):					
	PMT Prod. Nr.	Label no.	HV1 connector n	10.		
	18	ACC HV 18	20			
	13	ACC HV 13	21			
	15	ACC HV 15	22			
	19	ACC HV 19	23			

10 5. Page ACC-090930-0 **AMS-02 TASK SHEET (ATS)** 4. ATS NO **CONTINUATION PAGE** 6. MOD NO. VERIFICATION 20. OPER SEQ. NO. 21. OPERATIONS (Print, Type, or Write Legibly) 22. TECH 23. QA/DV 7.5 Secure connections between ACC signal cable and connector and HV cable and connector with glue. SCOTCH-WELD 2216 B/A, Lot Number: **Expiration Date:** 7.5.1 Clean ACC signal cable plug and connector and HV cable plug and connector to glue with isopropanol. 7.5.2 Glue ACC signal cable plug and connector and HV cable plug and connector with SCOTCH-WELD 2216 B/A. 8. Routing and cabling of ACC HV and signal cables of PMT box sector 08 Z- side to S2-crate. Remove cable ties for temporary fixation of ACC HV and signal cables at PMT 8.1 box sector 08 Z- side. 8.2 Route 4 ACC signal and 4 ACC HV cables to the lower edge of S2 cable balcony closest to SFEA (slot7). Form a bundle and stabilize it with surrounding flight cable ties every ten centimeters. Open the bundle at lower edge of S2 crate. Route the 4 signal cables to their positions on SFEA2 board (see section 9.). 8.3 Plug in by hand – without further tools – ACC signal cables as in following table: **PMT** S2 SFEA2 (slot 7) Sector 08 Z- PMT Signal-cable Prod. No. Label no. connector no. ACC SL 6 CH₁ 6 4 ACC SL 4 CH2 9 ACC SL 9 CH3 ACC SL 17 17 CH4 8.4 Route 4 ACC HV cables according figure 4 to SHV2 brick. Form a bundle and stabilize it with surrounding flight cable ties every ten centimeters. Connect ACC HV cables as in following table and fix them by hand (no tool needed):

SHV2 connector no

20

21

Label no.

Sector 08 Z- PMT HV-cable

ACC HV 6

ACC HV 4

PMT

Prod. Nr.

6

4

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	(CONTINUATION PAGE	6. MOD NO.					
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFIC 22. TECH	CATION 23. QA/DV		
	9	ACC HV 9	22		22. 12011	20. 4700		
	17	ACC HV 17	23					
8.5	connector	nnections between ACC signal cable and with glueWELD 2216 B/A, Lot Number: n Date:	d connector and HV	√ cable and				
8.5.1		C signal cable plug and connector and H isopropanol.	IV cable plug and c	connector to				
8.5.2		C signal cable plug and connector and HG-WELD 2216 B/A.	V cable plug and co	onnector with				
9.	Routing a to S3-crat	nd cabling of ACC HV and signal cable e.	s of PMT box sector	or 24 Z- side				
9.1		table ties for temporary fixation of ACC r 24 Z- side.	HV and signal cab	les at PMT				
9.2	closest to cable ties	Route 4 ACC signal and 4 ACC HV cables to the lower edge of S3 cable balcony closest to SFEA (slot7). Form a bundle and stabilize it with surrounding flight cable ties every ten centimeters. Open the bundle at lower edge of S3 crate. Route the 4 signal cables to their positions on SFEA2 board (see section 9.).						
9.3	Plug in by	hand – without further tools – ACC sig	nal cables as in follows	lowing table:				
	PMT Prod. No.	S	S3 SFEA2 (slot 7) connector no.					
	2	ACC SL 2	CH1					
	21	ACC SL 21	CH2					
	14	ACC SL 14	СНЗ					
	7	ACC SL 7	CH4					
9.4	stabilize i	ACC HV cables according figure 3 to SH t with surrounding flight cable ties every as as in following table and fix them by h	ten centimeters. C	Connect ACC				

10 10 5. Page ACC-090930-0 **AMS-02 TASK SHEET (ATS)** 4. ATS NO. **CONTINUATION PAGE** 6. MOD NO. VERIFICATION 21. OPERATIONS (Print, Type, or Write Legibly) 20. OPER SEQ. NO. 22. TECH 23. QA/DV Sector 24 Z- PMT HV-cable **PMT** SHV3 connector no. Prod. Nr. Label no. ACC HV 2 20 2 21 ACC HV 21 21 14 ACC HV 14 22 7 ACC HV 7 23 9.5 Secure connections between ACC signal cable and connector and HV cable and connector with glue. SCOTCH-WELD 2216 B/A, Lot Number: **Expiration Date:** 9.5.1 Clean ACC signal cable plug and connector and HV cable plug and connector to glue with isopropanol. Glue ACC signal cable plug and connector and HV cable plug and connector with 9.5.2 SCOTCH-WELD 2216 B/A. 10. Close this ATS.