

ACIS Verification Summary Report

Specification:	AXAF Observatory to Science Instrument ICD (IF1-20)
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Requirement Number/Title:	3.9.2.2.1 Internal Cleanliness (VRSD 3.9.2.2.1-3)
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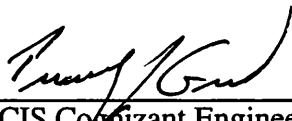
Requirement Statement:

Non sealed components with interior materials which cannot be cleaned to to level 350A shall be designed with filter vents.

Verification Method:	Design Review
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Procedure Number:**Configuration:****Cycle Time:****Verification Discussion/Results:**

The only non-sealed components with interior materials which cannot be cleaned to level 350a are the MLI Blankets. The blankets incorporate 95 micron mesh filters at all vent locations to prevent potential particulate contamination from escaping.



 ACIS Cognizant Engineer

6/3/97

 Date

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Specification:	AXAF Observatory to Science Instrument ICD (IF1-20)
Requirement Number/Title:	3.9.2.2.1 Internal Cleanliness (VRSD 3.9.2.2.1-3)
Requirement Statement: Non sealed components with interior materials which cannot be cleaned to level 350A shall be designed with filter vents.	
Verification Method:	<i>Inspection of Drawings/Parts List</i>
Procedure Number:	<i>N/A.</i>
Configuration: <i>DEA and DPA.</i>	
Cycle Time:	
Verification Discussion/Results:	
<p><i>The MIT portion of ACIS contains two electronic boxes, the inside of which can not be verified to level 350A.</i></p> <p><i>Both boxes, DEA and DPA, are equipped with a micron level filter (Hydrodyne #35-6754). For the DEA, this is MIT P/N 36-30213. For the DPA, it is P/N 36-30313 (which refers back to 36-30213).</i></p> <p><i>Copies of the appropriate pages of the ACIS Configuration Data Base are attached.</i></p>	

William Mayer 6/11/97
 ACIS Cognizant Engineer Date

Size	Number	Rev	Quan	Description	Reference	Comments
D	36-30210.0202	OBS	1	.....Shield		
D	36-30210.03	A	1	....Cover, +X, DEA		
2D	36-30210.04	D	1	....Cover, -X, DEA		
2E	36-30210.05	D	1	....Panel, +Y, DEA		
>	36-30210.0501		21	.....Insert, #4-40UNC x 1.5 Dia., Tangless		NAS1130-04-15
>	36-30210.0502		28	.....Insert, #6-32UNC x 1.5 Dia., Tangless		NAS1130-06-15
>	36-30210.0503		1	.....Nut, Self-Clinching, #4-40UNC		CLS-440-2
>	36-30210.0504		3	.....Nut, Self-Clinching-Miniature, #4-40UNC		Pem FEX-440
>	36-30210.06		52	....Screw, #6-32UNC x .620L, SHC, Silver Plated		Unbrako
>	36-30210.07		52	....Washer, Flat, #6, Reduced		NAS620C6
>	36-30210.08		7	....Insert, #6-32UNC x 1.5 Dia., Tangless		NAS1130-06-15
← >	36-30213			..Filter Panel		Hydrodyne 35-6754 ←
B	36-30213.01	01	1	....Filter Panel Outline		
C	36-30215	A	1	..Cable Assy-DEA Internal, Control 2	W16	
>	36-30215.01		1	....Connector, Circular, 22 Socket, Recept	J18	36-90203.27
>	36-30215.02		1	....Connector, Rect, 48-Pin, Plug	P26	36-90205.02
>	36-30215.03		6	....Wire, 24 AWG, TSP, 4'L.		M27500-24-SC-2-S-23
>	36-30215.04		1	....Wire, 24 AWG, Stranded, 4'L.		M22759/33-24-96
>	36-30215.05		1	....Wire, 24 AWG, Twisted Pair, 4'L.		M22759/33-24-96,-9
>	36-30215.06		1	....Backshell, Straight		GS85049/64-12N
>	36-30215.07		1	....Strain Relief, .01" x 1.25" x 2"L		AIN-Teflon
>	36-30215.08		21	....Shrink Tubing, 1/16" x 1/4"L		Raychem RNF-100(Clear)
>	36-30215.09		12	....Shrink Tubing, 1/8" x 1/2"L		Raychem RNF-100(Clear)
>	36-30215.10	A/R		....Tie Wrap, Tefzel		Panduit PLTIM-C76
>	36-30215.11		21	....Contact, Socket, #22D		M39029/57-354
>	36-30215.12		21	....Contact, Pin, Crimp		YPN006-021
>	36-30215.13		2	....Washer, Flat, #2, Reduced		NAS620C2
>	36-30215.14		2	....Washer, Flat, #8, Reduced		NAS620C8
>	36-30215.15	A/R		....Spotbond, Hardware		Epon 828-V140 w/Al Oxide
>	36-30215.16	A/R		....Marking Ink, White		Hysol 50-110R
>	36-30215.17		2	....Screw, #6-32UNC x .500L, SHC		Unbrako
>	36-30215.18		1	....Protective Cover		36-90202.07
D	36-30217	A	1	..Bracket, Support		
>	36-30217.01		2	....Nut, Self-Clinching, #6-32UNC		CLS-632-3
>	36-30218		1	..Cover, Connector		36-20218
>	36-30219		1	..Cover, Rear Connector		36-20219
>	36-30220	A/R		..EMI Gasket		Spira MS04
>	36-30221		27	..Nut, Hex, #6-32UNC, Reduced		NAS671C6
>	36-30222		36	..Screw, #6-32UNC x 1.000L, SHC		
>	36-30223		24	..Screw, #4-40UNC x .625L, SHC		
>	36-30224		80	..Washer, Flat, #4, Reduced		NAS620C4
>	36-30225		24	..Nut, Hex, #4-40UNC		MS35469-244

Size	Number	Rev	Quan	Description	Reference	Comments
>	36-30308.17		1	....Protective Cover		36-90202.05
C	36-30309	B	1	..Cable Assy-DPA Internal, Control 1	W14	
>	36-30309.01		1	....Connector, Circular, 22-Pin, Recept	J5	36-90203.24
>	36-30309.02		1	....Connector, Rect, 48-Pin, Plug	P14	36-90205.02
>	36-30309.03		6	....Wire, 24AWG, TSP, 4'L.		M27500-24-SC-2-S-23
>	36-30309.04		1	....Wire, 24AWG, Stranded, 4'L.		M22759/33-24-96
>	36-30309.05		12	....Shrink Tubing, 1/8" Dia. x 1/2"L		Raychem RNF-100(Clear)
>	36-30309.06		1	....Wire, 24 AWG, Twisted Pair, 4'L.		M22759/33-24-96,-9
>	36-30309.07		1	....Backshell, Straight		GS85049/64-12N
>	36-30309.08		1	....Strain Relief, .01" x 1.25" x 2"L		AIN-Teflon
>	36-30309.09		21	....Shrink Tubing, 1/16" x 1/4"L		Raychem RNF-100(Clear)
>	36-30309.10	A/R		....Tie Wrap, Tefzel		Panduit PLT1M-C76
>	36-30309.11		21	....Contact, Pin, #22D		M39029/58-360
>	36-30309.12		21	....Contact, Pin, Crimp		YPN006-021
>	36-30309.13		2	....Washer, Flat, #2, Reduced		NAS620C2
>	36-30309.14		2	....Washer, Flat, #8, Reduced		NAS620C8
>	36-30309.15	A/R		....Spotbond, Hardware		Epon 828-V140 w/Al Oxide
>	36-30309.16	A/R		....Marking Ink, White		Hysol 50-110R
>	36-30309.17		2	....Screw, #6-32UNC x .500L, SIIC		Unbrako
>	36-30309.18		1	....Protective Cover		36-90202.07
E	36-30310	B	1	..DPA Housing Assembly		
>	36-30310.01		1	....Panel, -Z, DPA		36-20310
2D	36-30310.02	B	1	....Panel, +Z, DPA		
>	36-30310.0201		12	.....Nut, Self-Clinching, #6-32UNC		PEM CLS-632-3
D	36-30310.03	A	1	....Cover, +X, DPA		
>	36-30310.0302		4	.....Standoff, Self-Clinching, # 4-40UNC x .375L		PEM,SOS-6440-12
2D	36-30310.04	A	1	....Cover, -X, DPA		
2E	36-30310.05	D	1	....Panel, -Y, DPA		
>	36-30310.0501		18	.....Insert, #4-40UNC x 1.5 Dia., Tangless		NAS1130-04-15
>	36-30310.0502		30	.....Insert, #6-32UNC x 1.5 Dia., Tangless		NAS1130-06-15
>	36-30310.06		24	....Screw, #6-32UNC x .620L, SIIC, Silver Plated		Unbrako
>	36-30310.07		24	....Washer, Flat, #6, Reduced		NAS620C6
>	36-30310.08		7	....Insert, #6-32 x 1.5 Dia., Tangless		NAS1130-06-15
→	36-30313			..Vent Panel		36-30213 ←
C	36-30315	B	1	..Cable Assy-DPA Internal, RCTU A	W15	
>	36-30315.01		1	....Connector, Circular, 37 Socket, Recept	J6	36-90203.10
>	36-30315.02		1	....Connector, Rect, 48-Pin, Plug	P15	36-90205.02
>	36-30315.03		2	....Wire, 24AWG, TSP, 4'L.		M27500-24-SC-2-S-23
>	36-30315.04		19	....Wire, 24AWG, Stranded, 4'L.		M22759/33-24-96
>	36-30315.05		9	....Wire, 24AWG, Twisted Pair, 4'L.		M22739/33-24-96,-9
>	36-30315.06		2	....Shrink Tubing, 1/8" Dia. x 1/2"L		Raychem RNF-100(Clear)
>	36-30315.07		1	....Backshell, Straight		GS85049/64-14N