

USA Ground Operations CIL Sheet

Critical Item: Filter (Generic)
NASA Part No: See Table 6
Mfg/Part No: See Table 6 /
System: See Table 6

Criticality Category: 2
Total Quantity: 143

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
See Table 6	335	See Table 6	See Table 6	NA	NA

Function:

Provides removal of particulate matter from fluids or gasses to support systems operations.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
None	Material Failure	NA	2
See Table 6	Loss of capability to convey media or contamination of the system could result in loss (damage) of life a vehicle system	NA	

ACCEPTANCE RATIONALE

Design:

- GSE systems are designed in accordance with applicable Program and Project specifications and standard:

Test:

- Acceptance testing, including bubble point, is performed by the manufacturer.

Inspection:

- KSC procedures require periodic filter element replacement or replacement when contamination is suspect depending on the individual system requirements.

Failure History:

- Current data on test failures, unexplained anomalies, and other failures experienced during ground process activities can be found in the PRACA database.

Table 6. Criticality Category 2 Filters

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
A70-1120 SSD91DO205	FL1 None	EDO Cryo Cap & Plug OPF, VAB	Wintec Aerospace Speciality 14228-633-10	2 Passes Contaminants
A70-1136 SSD94FO045	FL1 None	PRCS Universal Throat Plug Assy OPF, HMF, Pad	Wintec Aerospace Speciality 6267-520-8	18 Passes Contaminants
A70-1349 09GS04-002	A110643 79K80229-10	Facility GHe System Pad-A	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110643 79K80229-10	Facility GHe System Pad-B	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110663 79K80229-10	Facility GHe System Pad-A	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110663 79K80229-10	Facility GHe System Pad-B	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110683 79K80229-10	Facility GHe System Pad-A	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110683 79K80229-10	Facility GHe System Pad-B	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110703 79K80229-10	Facility GHe System Pad-A	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A110703 79K80229-10	Facility GHe System Pad-B	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A129836 79K80229-10	Facility GHe System Pad-A	Wintec Aerospace Speciality 24108-020	2 Clogs
A70-1349 09GS04-002	A129836 79K80229-10	Facility GHe System Pad-B	Wintec Aerospace Speciality 24108-020	2 Clogs
A72-1005 09GSAB5-002	A104372 79K07808-PF2	Environmental Control System MLP-1	Cambridge Filter Corp ST-S-20-20	3 Saturated Filter Media
A72-1005 09GSAB5-002	A104372 79K07808-PF2	Environmental Control System MLP-2	Cambridge Filter Corp ST-S-20-20	3 Saturated Filter Media
A72-1005 09GSAB5-002	A104372 79K07808-PF2	Environmental Control System MLP-3	Cambridge Filter Corp ST-S-20-20	3 Saturated Filter Media
A72-1005 09GSAB5-002	A104374 79K07808-PF1	Environmental Control System MLP-1	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104374 79K07808-PF1	Environmental Control System MLP-2	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
A72-1005 09GSAB5-002	A104374 79K07808-PF1	Environmental Control System MLP-3	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104375 79K07808-PF1	Environmental Control System MLP-1	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104375 79K07808-PF1	Environmental Control System MLP-2	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104375 79K07808-PF1	Environmental Control System MLP-3	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104376 79K07808-PF1	Environmental Control System MLP-1	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104376 79K07808-PF1	Environmental Control System MLP-2	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1005 09GSAB5-002	A104376 79K07808-PF1	Environmental Control System MLP-3	Cambridge Filter Corp 1F-990-1	3 Passes Contaminants
A72-1315 09FTL30-005	1A483 None	SSME Throat Access Platform MLP	Speedaire 1A483	5 Passes Contaminants
A77-1322 09FY02-009	F1 None	Condor 68 Self-Propelled Aerial Work Platform Mobile	Moog HPA050	2 Passes Contaminants
C77-0497 09TE02-002	F5 None	RCS Thruster Valve Cycling Box RPSF	Mectron Industries Inc 8U77015-02	5 Passes Contaminants
C77-0497 09TE02-002	F5 None	RCS Thruster Valve Cycling Box VAB	Mectron Industries Inc 8U77015-02	5 Passes Contaminants
C77-0497 09TE02-002	F9 None	RCS Thruster Valve Cycling Box RPSF	Mectron Industries Inc 8U77015-02	5 Passes Contaminants
C77-0497 09TE02-002	F9 None	RCS Thruster Valve Cycling Box VAB	Mectron Industries Inc 8U77015-02	5 Passes Contaminants
F70-0019 09FY09-008	F1 None	ECLSS Airlock Support System OPF	Millipore Corp CFHA-02220	2 Passes Contaminants
K60-1015 09FY02-017	F1 None	Condor 86 Work Aerial Platform Mobile	Moog HPA050	2 Passes Contaminants
K60-1037-01 09FY02-016	F2 None	Simon MPH 62 Self-Propelled Aerial Work Platform Mobile	Schroeder 01-035100	3 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-0529	None	Aft Fuselage		1
STS88-0211	None	MLP	ME286-0066-0012	Clog (loss of flow)
S70-0537	FL41	Potable Water Servicing	Pall Trinity	2
STS88-0230	None	OPF, Pad	AB-1AR8PJ	Passes Contaminants
S70-0537	FL41	Potable Water Servicing	Pall Trinity	2
STS88-0230	None	OPF, Pad	AB-1NR8PJ	Passes Contaminants
S70-0537	FL42	Potable Water Servicing	Pall Trinity	2
STS88-0230	None	OPF, Pad	AB-1NR8PJ	Passes Contaminants
S70-0537	FL42	Potable Water Servicing	Pall Trinity	2
STS88-0230	None	OPF, Pad	AB-1AR8PJ	Passes Contaminants
S70-0752	FL02	APU Servicing	Wintec Aerospace Speciality	1
STS88-0227	None	OPF, Pad	6267-520-1	Passes Contaminants
S70-0778	FL5	APU System		1
STS88-0235	None	SLS, MSS, OPF, WSL, CLS	ME286-0072-0009	Pass contaminants
S70-0778	FL7	APU System		1
STS88-0235	None	SLS, MSS, OPF, WSL, CLS	ME286-0072-0009	Pass contaminants
S70-0778	FL8	APU System		1
STS88-0235	None	SLS, MSS, OPF, WSL, CLS	ME286-0072-0009	Pass contaminants
S70-0805	A150417	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	1
09HS01-001	None	SLS-1	24120-003	Passes Contaminants
S70-0805	A150417	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	1
09HS01-001	None	VAB	24120-003	Passes Contaminants
S70-0843-01	A77939	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	1
09HS01-001	79K05756	MLP-1	24132-003	Passes Contaminants
S70-0843-01	A77939	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	1
09HS01-001	79K05756	MLP-2	24132-003	Passes Contaminants
S70-0843-01	A77939	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	1
09HS01-001	79K05756	MLP-3	24132-003	Passes Contaminants
S70-0843-01	A77939	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	3
09HS01-001	79K05756	OPF-1	24132-003	Passes Contaminants
S70-0843-01	A77939	Orbiter/SRB Hydraulic Support System	Wintec Aerospace Speciality	3
09HS01-001	79K05756	OPF-2	24132-003	Passes Contaminants
S70-0867-W	A84469	Hypergolic Propellant Servicing System	Circle Seal Div	1
01FS030-001	None	HMF M7-1212	422XT4TT	Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-0867-W 01FS030-001	A84470 None	Hypergolic Propellant Servicing System HMF M7-1212	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-L 01FS030-001	A83807 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-L 01FS030-001	A83808 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-L 01FS030-001	A83814 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-L 01FS030-001	A98127 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-L 01FS030-001	A98128 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-L 01FS030-001	A98129 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-R 01FS030-001	A95807 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-R 01FS030-001	A95808 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-R 01FS030-001	A95814 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-R 01FS030-001	A99127 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-R 01FS030-001	A99128 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-0868-R 01FS030-001	A99129 None	Hypergolic Propellant Servicing System HMF M7-0961	Circle Seal Div 422XT4TT	1 Passes Contaminants
S70-1205 09HS017-001	A77939 None	Hydraulic Support System OPF-3	Wintec Aerospace Speciality 24132-003	3 Passes Contaminants
S70-1207 09GS01-002	A130311 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130311 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130311 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants

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SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1207 09GS01-002	A130312 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130312 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130312 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130313 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130313 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130313 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130314 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130314 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130314 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130315 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130315 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130315 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130316 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130316 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130316 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130317 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130317 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1207 09GS01-014	A130317 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130318 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130318 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130318 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130319 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130319 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130319 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130320 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130320 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130320 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130321 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130321 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130321 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130322 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130322 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-014	A130322 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S70-1207 09GS01-002	A130326 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1207 09GS01-002	A130326 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-014	A130326 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-002	A130327 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-002	A130327 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-014	A130327 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-002	A130328 None	SSME Ground Support System OPF-1	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-002	A130328 None	SSME Ground Support System OPF-2	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1207 09GS01-014	A130328 None	SSME Ground Support System OPF-3	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S70-1217 09GS01-015	A512900 None	SSME Ground Support System SSMEPF	Wintec Aerospace Speciality 24903-513	1 Passes contaminants
S70-1245 09GS04-002	A130412 79K80229-1	Facility GHe System Pad-A	Wintec Aerospace Speciality 24104-010	2 Clogs
S70-1245 09GS04-002	A130412 79K80229-1	Facility GHe System Pad-B	Wintec Aerospace Speciality 24104-010	2 Clogs
S70-1247-01 29SL01-026	A524617 79K80229-25	SSME GN2 and GHe Purge System SLS-1	Wintec Aerospace Speciality 24124-010	1 Clogs
S70-1247-01 29SL01-026	A524647 79K80229-25	SSME GN2 and GHe Purge System SLS-1	Wintec Aerospace Speciality 24124-010	1 Clogs
S70-1310 09GS05-012	A145524 79K21727-CE	Environmental Control System OPF-1	Cambridge Filter Corp SAD-20-20	2 Passes Contaminants
S70-1310 09GS05-012	A145524 79K21727-CE	Environmental Control System OPF-2	Cambridge Filter Corp SAD-20-20	2 Passes Contaminants
S70-1310 09GS05-012	A145536 79K21727-JL	Environmental Control System OPF-1	Cambridge Filter Corp SAD-40-40	2 Passes Contaminants
S70-1310 09GS05-012	A145536 79K21727-JL	Environmental Control System OPF-2	Cambridge Filter Corp SAD-40-40	2 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1310 09GS05-012	A145548 79K21727-EF	Environmental Control System OPF-1	Cambridge Filter Corp SAD-20-20	2 Passes Contaminants
S70-1310 09GS05-012	A145548 79K21727-EF	Environmental Control System OPF-2	Cambridge Filter Corp SAD-20-20	2 Passes Contaminants
S70-1310 09GS05-012	A145560 79K21727-EE	Environmental Control System OPF-1	Cambridge Filter Corp SAD-20-20	2 Passes Contaminants
S70-1310 09GS05-012	A145560 79K21727-EE	Environmental Control System OPF-2	Cambridge Filter Corp SAD-20-20	2 Passes Contaminants
S70-1310 09GS05-013	A513650 None	Environmental Control System OPF-3	Cambridge Filter Corp 1K323-1	1 Passes Contaminants
S70-1310 09GS05-013	A514332 None	Environmental Control System OPF-3	Cambridge Filter Corp 1K323-1	1 Passes Contaminants
S70-1310 09GS05-013	A514334 None	Environmental Control System OPF-3	Cambridge Filter Corp 1K323-1	1 Passes Contaminants
S70-1310 09GS05-013	A514336 None	Environmental Control System OPF-3	Cambridge Filter Corp 1K323-1	1 Passes Contaminants
S70-1310-01 09GSP5-001	A511901 None	Star Tracker Environmental Control Station OPF-3	Cambridge Filter Corp SA-D-20-20 3PC-95	1 Passes Contaminants
S70-1312 09GS01-011	A150941 None	GN2/GHe/Air Payload Purge System MLP-1	None None	1 Clogs Or Passes Contaminants
S70-1312 09GS01-011	A150941 None	GN2/GHe/Air Payload Purge System MLP-2	None None	1 Clogs Or Passes Contaminants
S70-1312 09GS01-011	A150941 None	GN2/GHe/Air Payload Purge System MLP-3	None None	1 Clogs Or Passes Contaminants
S70-1312 09GS01-011	A159800 None	GN2/GHe/Air Payload Purge System MLP-1	None None	1 Clogs Or Passes Contaminants
S70-1312 09GS01-011	A159800 None	GN2/GHe/Air Payload Purge System MLP-2	None None	1 Clogs Or Passes Contaminants
S70-1312 09GS01-011	A159800 None	GN2/GHe/Air Payload Purge System MLP-3	None None	1 Clogs Or Passes Contaminants

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SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1312-01 09GS01-011	A142891 79K80229-17	GN2/GHe/Air Payload Purge System MLP-1	None None	1 Clogs
S70-1312-01 09GS01-011	A142891 79K80229-17	GN2/GHe/Air Payload Purge System MLP-2	None None	1 Clogs
S70-1312-01 09GS01-011	A142891 79K80229-17	GN2/GHe/Air Payload Purge System MLP-3	None None	1 Clogs
S70-1312-01 09GS01-011	A142895 79K80229-17	GN2/GHe/Air Payload Purge System MLP-1	None None	1 Clogs
S70-1312-01 09GS01-011	A142895 79K80229-17	GN2/GHe/Air Payload Purge System MLP-2	None None	1 Clogs
S70-1312-01 09GS01-011	A142895 79K80229-17	GN2/GHe/Air Payload Purge System MLP-3	None None	1 Clogs
S70-1312-01 09GS01-011	A152439 None	GN2/GHe/Air Payload Purge System MLP-1	Pall Trinity Micro Corp SDL31G16/AB1FR7PV 0.2	1 Clogs
S70-1312-01 09GS01-011	A152439 None	GN2/GHe/Air Payload Purge System MLP-2	Pall Trinity Micro Corp SDL31G16/AB1FR7PV 0.2	1 Clogs
S70-1312-01 09GS01-011	A152439 None	GN2/GHe/Air Payload Purge System MLP-3	Pall Trinity Micro Corp SDL31G16/AB1FR7PV 0.2	1 Clogs
S70-1339 09HS017-001	A502104 None	Hydraulic Support System OPF-3	Wintec Aerospace Speciality 24120-003	1 Passes Contaminants
S70-1361 29CL01-018	A507852 None	GN2 Compressed Gas Cart CLS-BAN	Circle Seal Div 4210T-4TT	3 Passes Contaminants
S70-1361 29CL01-018	A507852 None	GN2 Compressed Gas Cart CLS-BEN	Circle Seal Div 4210T-4TT	3 Passes Contaminants
S70-1361 29CL01-018	A507852 None	GN2 Compressed Gas Cart CLS-MOR	Circle Seal Div 4210T-4TT	3 Passes Contaminants
S70-1361 29FR01-003	A507852 None	GN2 Compressed Gas Cart SLS-1	Circle Seal Div 4210T-4TT	2 Passes Contaminants
S70-1361 29FR01-003	A507852 None	GN2 Compressed Gas Cart SLS-2	Circle Seal Div 4210T-4TT	2 Passes Contaminants
S70-1361 29CL01-018	A507859 None	GN2 Compressed Gas Cart CLS-BAN	Circle Seal Div 4210T-4TT	3 Passes Contaminants
S70-1361 29CL01-018	A507859 None	GN2 Compressed Gas Cart CLS-BEN	Circle Seal Div 4210T-4TT	3 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1361 29CL01-018	A507859 None	GN2 Compressed Gas Cart CLS-MOR	Circle Seal Div 4210T-4TT	3 Passes Contaminants
S70-1361 29FR01-003	A507859 None	GN2 Compressed Gas Cart SLS-1	Circle Seal Div 4210T-4TT	2 Passes Contaminants
S70-1361 29FR01-003	A507859 None	GN2 Compressed Gas Cart SLS-2	Circle Seal Div 4210T-4TT	2 Passes Contaminants
S70-1361 29CL01-018	A507916 79K80231-5	GN2 Compressed Gas Cart CLS-BAN	None None	3 Passes Contaminants
S70-1361 29CL01-018	A507916 79K80231-5	GN2 Compressed Gas Cart CLS-BEN	None None	3 Passes Contaminants
S70-1361 29CL01-018	A507916 79K80231-5	GN2 Compressed Gas Cart CLS-MOR	None None	3 Passes Contaminants
S70-1361 29FR01-003	A507916 79K80231-5	GN2 Compressed Gas Cart SLS-1	None None	2 Passes Contaminants
S70-1361 29FR01-003	A507916 79K80231-5	GN2 Compressed Gas Cart SLS-2	None None	2 Passes Contaminants
S70-1454 SSD92FO052	FL3 None	Freon 21 Servicing Cart OPF	Wintec Aerospace Speciality 14228-634-9	1 Passes Contaminants
S70-1514 09CS01-005	A528495 79K80275-5	Flash Evaporator System Core Purge Unit OPF	Puroflow Corp 111-1106-5	4 Passes Contaminates
S70-1514 09CS01-005	A528495 79K80275-5	Flash Evaporator System Core Purge Unit Pad	Puroflow Corp 111-1106-5	4 Passes Contaminates
S70-1515 09GS01-015	A531537 ME286-0066-0012	SSME Ground Support System SSMEPF	Wintec Aerospace Speciality 14228-633-12	30 Passes contaminants
S70-1515 09GS01-015	A531538 ME286-0066-0012	SSME Ground Support System SSMEPF	Wintec Aerospace Speciality 14228-633-12	30 Passes contaminants
S70-1515 09GS01-015	A531539 ME286-0066-0012	SSME Ground Support System SSMEPF	Wintec Aerospace Speciality 14228-633-12	30 Passes contaminants
S70-1515 09GS01-015	A531540 ME286-0066-0012	SSME Ground Support System SSMEPF	Wintec Aerospace Speciality 14228-633-12	30 Passes contaminants
S70-1515 09GS01-015	A531541 ME286-0066-0012	SSME Ground Support System SSMEPF	Wintec Aerospace Speciality 14228-633-12	30 Passes contaminants
S70-1515 09GS01-016	A531598 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants

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SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1515 09GS01-016	A531604 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531605 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531606 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531607 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531608 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531611 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531612 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531615 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531616 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531626 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531632 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531633 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531634 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531635 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531636 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531639 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531640 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants

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SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S70-1515 09GS01-016	A531643 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531644 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531654 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531660 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531661 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531662 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531663 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531664 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531667 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531668 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S70-1515 09GS01-016	A531671 ME286-0066-0012	SSME Post Flight Drying System SSMEPF	Wintec Aerospace Speciality 14228-633-12	9 Passes contaminants
S70-1515 09GS01-016	A531672 79K80273-9	SSME Post Flight Drying System SSMEPF	Puroflow 211-706-9	21 Passes contaminants
S72-0685-05 09PP03-001	A105962 79K80229-9	LH2 Main Propulsion System MLP-1	Wintec Aerospace Speciality 24108-010	1 Clogs Or Passes Contaminants
S72-0685-05 09PP03-001	A105962 79K80229-9	LH2 Main Propulsion System MLP-2	Wintec Aerospace Speciality 24108-010	1 Clogs Or Passes Contaminants
S72-0685-05 09PP03-001	A105962 79K80229-9	LH2 Main Propulsion System MLP-3	Wintec Aerospace Speciality 24108-010	1 Clogs Or Passes Contaminants
S72-0694-17 09PP02-001	A106445 79K80229-9	LO2 Main Propulsion System Pad-A	Wintec Aerospace Speciality 24112-020	1 Clogs Or Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S72-0694-17 09PP02-001	A106445 79K80229-9	LO2 Main Propulsion System Pad-B	Wintec Aerospace Speciality 24112-020	1 Clogs Or Passes Contaminants
S72-0697-01 09GS04-002	A81383 79K80230-10	Facility GHe System Pad-A	Wintec Aerospace Speciality 24116-020-GR7	2 Clogs
S72-0697-01 09GS04-002	A81383 79K80230-10	Facility GHe System Pad-B	Wintec Aerospace Speciality 24116-020-GR7	2 Clogs
S72-0697-01 09GS04-002	A81424 None	Facility GHe System Pad-A	Wintec Aerospace Speciality 24166-020	2 Clogs
S72-0697-01 09GS04-002	A81424 None	Facility GHe System Pad-B	Wintec Aerospace Speciality 24166-020	2 Clogs
S72-0869 09GSAB5-002	A134478 None	Environmental Control System Pad-A	Cambridge Filter Corp 1F-1000-1 (S)	2 Passes Contaminants
S72-0869 09GSAB5-002	A134478 None	Environmental Control System Pad-B	Cambridge Filter Corp 1F-1000-1 (S)	2 Passes Contaminants
S72-0869 09GSAB5-002	A134495 None	Environmental Control System Pad-A	Cambridge Filter Corp 1F-1000-1 (S)	2 Passes Contaminants
S72-0869 09GSAB5-002	A134495 None	Environmental Control System Pad-B	Cambridge Filter Corp 1F-1000-1 (S)	2 Passes Contaminants
S72-0869 09GSAB5-002	A165258 79K29701	Environmental Control System Pad-A	Flanders Filters Inc T-2V-C63-F12	2 Saturated Filter Media
S72-0869 09GSAB5-002	A165258 79K29701	Environmental Control System Pad-B	Flanders Filters Inc T-2V-C63-F12	2 Saturated Filter Media
S72-0869 09GSAB5-002	A503983 80K22314	Environmental Control System Pad-A	Flanders Filters Inc 007-05-03 IX	2 Passes Contaminants
S72-0869 09GSAB5-002	A503983 80K22314	Environmental Control System Pad-B	Flanders Filters Inc 007-05-03 IX	2 Passes Contaminants
S72-0869 09GSAB5-002	A89191 79K07849-PF2	Environmental Control System Pad-A	Cambridge Filter Corp ST-S-20-20	2 Passes Contaminants
S72-0869 09GSAB5-002	A89191 79K07849-PF2	Environmental Control System Pad-B	Cambridge Filter Corp ST-S-20-20	2 Passes Contaminants
S72-0869 09GSAB5-002	A89193 79K07849-PF1	Environmental Control System Pad-A	Cambridge Filter Corp IF-1000-1	2 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S72-0869 09GSAB5-002	A89193 79K07849-PF1	Environmental Control System Pad-B	Cambridge Filter Corp IF-1000-1	2 Passes Contaminants
S72-0889 09GSA8-001	A88326 None	Facility Compressed Air System Pad-A	Ingersoll-Rand Co NF-24 Model M-4	1 Clogs
S72-0889 09GSB8-001	A88326 None	Facility Compressed Air System Pad-B	Ingersoll-Rand Co NF-24 Model M-4	1 Clogs
S72-1107-06 09HS01-001	A85309 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-1	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85309 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-2	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85309 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-3	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85323 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-1	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85323 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-2	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85323 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-3	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85325 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-1	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85325 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-2	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85325 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-3	Wintec Aerospace Speciality 24116-010	1 Passes Contaminants
S72-1107-06 09HS01-001	A85330 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-1	Wintec Aerospace Speciality 24116-016	1 Passes Contaminants
S72-1107-06 09HS01-001	A85330 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-2	Wintec Aerospace Speciality 24116-016	1 Passes Contaminants
S72-1107-06 09HS01-001	A85330 79K80229-17	Orbiter/SRB Hydraulic Support System MLP-3	Wintec Aerospace Speciality 24116-016	1 Passes Contaminants
S72-1107-11 09GS01-002	A130268 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130269 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S72-1107-11 09GS01-002	A130270 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130271 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130272 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130273 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130274 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130275 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130276 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130277 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130278 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130279 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 6267-520-3	1 Passes Contaminants
S72-1107-11 09GS01-002	A130283 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S72-1107-11 09GS01-002	A130284 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S72-1107-11 09GS01-002	A130285 None	SSME Ground Support System Pad	Wintec Aerospace Speciality 14228-634-12	1 Passes Contaminants
S72-1107-12 29SL01-026	A130268 79K80273-9	SSME GN2 and GHe Purge System SLS-1	Puroflow Corp 211-706-9	1 Clogs Or Passes Contaminants
S72-1107-12 29SL01-026	A130272 79K80273-9	SSME GN2 and GHe Purge System SLS-1	Puroflow Corp 211-706-9	1 Clogs Or Passes Contaminants
S72-1107-12 29SL01-026	A130276 79K80273-9	SSME GN2 and GHe Purge System SLS-1	Puroflow Corp 211-706-9	1 Clogs Or Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S72-1107-12 29SL01-026	A524686 79K80273-9	SSME GN2 and GHe Purge System SLS-1	Puroflow Corp 211-706-9	1 Clogs Or Passes Contaminants
S72-1107-12 29SL01-026	A524687 79K80273-9	SSME GN2 and GHe Purge System SLS-1	Puroflow Corp 211-706-9	1 Clogs Or Passes Contaminants
S72-1107-12 29SL01-026	A524688 79K80273-9	SSME GN2 and GHe Purge System SLS-1	Puroflow Corp 211-706-9	1 Clogs Or Passes Contaminants
S72-8750 29SL01-030	A519077 None	Portable Hydraulic Pumping Unit SLS-1	Wintec Aerospace Speciality 24120-003	1 Passes Contaminants
S78-0103-01 09GS01-001	A87897 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0206	1 Passes Contaminants
S78-0103-01 09GS01-001	A87919 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0212	1 Passes Contaminants
S78-0103-03 09GS01-001	A136681 None	ET Checkout System VAB HB-4	Brunswick Corp 14228-633-12	1 Passes Contaminants
S78-0103-03 09GS01-001	A144599 None	ET Checkout System VAB HB-2	Brunswick Corp 14228-633-12	1 Passes Contaminants
S78-0103-03 09GS01-001	A515452 None	ET Checkout System VAB HB-2	Brunswick Corp 14228-633-12	1 Passes Contaminants
S78-0103-03 09GS01-001	A515461 None	ET Checkout System VAB HB-4	Brunswick Corp 14228-633-12	1 Passes Contaminants
S78-0103-04 09GS01-001	A131429 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0206	1 Passes Contaminants
S78-0103-04 09GS01-001	A131451 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0212	1 Passes Contaminants
S78-0103-05 09GS01-001	A515393 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0206	1 Passes Contaminants
S78-0103-05 09GS01-001	A515420 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0212	1 Passes Contaminants
S78-0103-06 09GS01-001	A515334 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0206	1 Passes Contaminants
S78-0103-06 09GS01-001	A515360 None	ET Checkout System VAB Tower-B	Brunswick Corp FR1564-0212	1 Passes Contaminants

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S78-5000-02 09GS01-001	A136682 None	ET Checkout System VAB HB-4	Brunswick Corp 14228-633-12	1 Passes Contaminants
S78-5000-02 09GS01-001	A144600 None	ET Checkout System VAB HB-2	Brunswick Corp 14228-633-12	1 Passes Contaminants
S78-5000-02 09GS01-001	A515451 None	ET Checkout System VAB HB-2	Brunswick Corp 14288-633-12	1 Passes Contaminants
S78-5000-02 09GS01-001	A515466 None	ET Checkout System VAB HB-4	Brunswick Corp 14228-633-12	1 Passes Contaminants