

SAS health check
 File: H_FCP_AOC_5009.xls
 Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS procedure is to lists all activities necessary to assess the health and status of the SAS.

The procedure involves the following activities:
 - check SAS health status
 - check range of SAS output currents

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

n/a

End of Procedure

n/a

Reference File(s)

Input Command Sequences

Output Command Sequences

Referenced Displays

ANDs	GRDs	SLDs
ZAA02999		
ZAA01999		
ZAA00999		

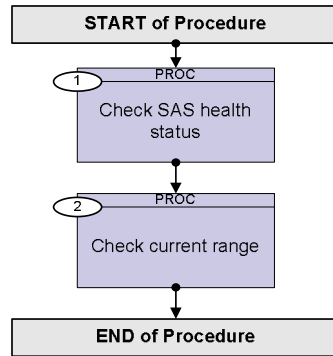
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
03/08/08	1	1	Created	dsalt-hp	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
PROC Procedure Properties				
SSID :				
1		Check SAS health status		Next Step: 2
1.1		SAS 1N related health status checks		<input type="checkbox"/>
1.1.1		SAS 1N Unhealthy and used in Nominal configuration		<input type="checkbox"/>
		Verify Telemetry SAS1N Hlth Sts AESK5002 = Unhealthy		AND=ZAA02999
		Verify Telemetry Nom Conf SAS AESCB002 <> SAS1 R SAS2 N <> SAS12 R		AND=ZAA01999
1.1.2		Contingency		<input type="checkbox"/>
		Check if SAS 1R is healthy and modify the Nominal Configuration accordingly		
1.1.3		SAS 1N Unhealthy and used in Survival configuration		<input type="checkbox"/>
		Verify Telemetry SAS1N Hlth Sts AESK5002 = Unhealthy		AND=ZAA02999
		Verify Telemetry Surv Conf SAS AESCH001 <> SAS1 R SAS2 N <> SAS12 R		AND=ZAA01999
1.1.4		Contingency		<input type="checkbox"/>
		Check if SAS 1R is healthy and modify the Survival Configuration accordingly		
1.2		SAS 1R related health status checks		<input type="checkbox"/>
1.2.1		SAS 1R Unhealthy and used in Nominal configuration		<input type="checkbox"/>
		Verify Telemetry SAS1R Hlth Sts AESK6002 = Unhealthy		AND=ZAA02999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Nom Conf SAS AESCB002	<> SAS1 N SAS2 R <> SAS12 N	AND=ZAA01999
1.2.2		Contingency		<input type="checkbox"/>
		Check if SAS 1N is healthy and modify the Nominal Configuration accordingly		
1.2.3		SAS 1R Unhealthy and used in Survival configuration		<input type="checkbox"/>
		Verify Telemetry SAS1R Hlth Sts AESK6002	= Unhealthy	AND=ZAA02999
		Verify Telemetry Surv Conf SAS AESCH001	<> SAS1 N SAS2 R <> SAS12 N	AND=ZAA01999
1.2.4		Contingency		<input type="checkbox"/>
		Check if SAS 1N is healthy and modify the Survival Configuration accordingly		
1.3		SAS 2N related health status check		<input type="checkbox"/>
		Verify Telemetry SAS2N Hlth Sts AESK7002	= Healthy	AND=ZAA02999
1.4		SAS 2R related health status check		<input type="checkbox"/>
		Verify Telemetry SAS2R Hlth Sts AESK8002	= Healthy	AND=ZAA02999
2		Check current range		Next Step: END
		Verify Telemetry SAS1 +X nom AMUC1044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 +Y nom AMUC2044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 -X nom AMUC5044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 -Y nom AMUC6044	>= -0.00042 A <= 0.032 A	AND=ZAA00999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SAS2 +X nom AMUC3045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 +Y nom AMUC4045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 -X nom AMUC7045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 -Y nom AMUC8045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 +X red AMUC9044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 +Y red AMUCA044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 -X red AMUCD044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS1 -Y red AMUCE044	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 +X red AMUCB045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 +Y red AMUCC045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 -X red AMUCF045	>= -0.00042 A <= 0.032 A	AND=ZAA00999
		Verify Telemetry SAS2 -Y red AMUCG045	>= -0.00042 A <= 0.032 A	AND=ZAA00999

End of Procedure