Doc. Title.: XMM FOP Issue : x Doc. Ref.: XMM-MOC-PL-0022-SMD Revision: x

Date: May 99

Procedure. Ref.: SVT_OPM_5051 (1,1) OPERATIONAL MODE FILTER WHEEL TEST

Procedure Title: Operational Mode Filter Wheel Test

Last Date Modified: 15/07/99 19:32:44 **Author:** Kate Adamson

Purpose of Procedure:

This procedure executes the Operational Mode Filter Wheel Test. The function of the OM Filter wheel as controlled by the ICU is tested in operational mode covering command search for Coarse sensor and comand search for Datum position.

This procedure is foreseen to be used during the OM initial Switch ON and Commissioning.

Initial State: OM ON in SAFE Mode.

Final State: OM ON in SAFE Mode with Filter Wheel in Datum position.

Step	Time	Activity/Remarks	Command	TM Verification
1		Confirm OM in SAFE Mode.		AND: H100
		Check HK status and packet arrival every 10 seconds.		H5395 "OM STATE" = SAFE H5405 "ICU STATE" = OPERATIONAL
2		MOVE FILTER WHEEL TO DATUM POSITION		
2.1		Specify Filter wheel move to Datum	H7608 SET FW TO DATUM	<u>AND: H100</u>
		position.		H5385 "TC PACKET COUNT" = increment by 1
2.2		Move Filter Wheel to the specified position.	<u>H5600</u> MOVE FW	
2.3	00:00:25	Wait up to 25 seconds for the TMPSU		AND: H911
		event. Confirm receipt of TM packet 92600 (PK Dump 1096 OM4)		H7010 "TMPSU EVENT" = FW @ REQ POS
		NOTE - HK TM WILL BE SUSPENDED FOR THE DURATION OF THE FW MOVE.		
2.4		Check FW status when new OM HK packet is received.		AND: H110
				H5150 "FINE PICKOFF" = SEEN H5265 "FW POS COUNTER" = 0
3		MOVE FILTER AWAY FROM DATUM POSITION		
3.1		Command Filter away from the Datum position by 1000 steps.	H7606 SET REL STEP POS	<u>AND: H100</u>
			**H0290 "NUM STEPS" = 1000	H5385 "TC PACKET COUNT" = increment by 1
3.2		Move Filter Wheel to the specified position.	<u>H5600</u> MOVE FW	
3.3		Wait up to 25 seconds for the TMPSU event. Confirm receipt of TM packet 92600 (PK Dump 1096 OM4)		AND: H911 H7010 "TMPSU EVENT" = FW @ REQ POS
		NOTE - HK TM WILL BE SUSPENDED FOR THE DURATION OF THE FW MOVE.		

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Step	Time	Activity/Remarks	Commar	nd	TM Verification
3.4		Check FW status when new OM HK packet			AND: H110
		is received.			H5150 "FINE PICKOFF" = SEEN H5250 "CPOS SENS STAT" = NOT SEEN H5265 "FW POS COUNTER" = 1000
4		MOVE FILTER TO COARSE POSITION SENSOR			10000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4.1		Specify Filter wheel move to Coarse	H7609	SET FW TO COARSE	AND: H100
		position sensor.			H5385 "TC PACKET COUNT" = increment by 1
4.2		Move Filter Wheel to the specified position.	<u>H5600</u>	MOVE FW	
4.3		Wait up to 25 seconds for the TMPSU			<u>AND: H911</u>
		event. Confirm receipt of TM packet 92600 (PK Dump 1096 OM4)			H7010 "TMPSU EVENT" = FW @ REQ POS
		NOTE - HK TM WILL BE SUSPENDED FOR THE DURATION OF THE FW MOVE.			
4.4		Check FW status when new OM HK packet is received.			AND: H110 H5250 "CPOS SENS STAT" = SEEN
5		RETURN FILTER WHEEL TO DATUM POSITION			
5.1		Specify Filter wheel move to Datum	<u>H7608</u>	SET FW TO DATUM	AND: H100
		position.			H5385 "TC PACKET COUNT" = increment by 1
5.2		Move Filter Wheel to the specified position.	H5600	MOVE FW	
5.3		Wait up to 25 seconds for the TMPSU			<u>AND: H911</u>
		event. Confirm receipt of TM packet 92600 (PK Dump 1096 OM4)			H7010 "TMPSU EVENT" = FW @ REQ POS
		NOTE - HK TM WILL BE SUSPENDED FOR THE DURATION OF THE FW MOVE.			
5.4		Check FW status when new OM HK packet is received.			AND: H110
					H5150 "FINE PICKOFF" = SEEN H5265 "FW POS COUNTER" = 0
7		END OF PROCEDURE			

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