

Procedure. Ref.: SVT_OPM_5700 (1,1) DICHROIC RECONFIGURATION

Procedure Title: Dichroic Reconfiguration

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Purpose of Procedure:

This procedure executes reconfiguration of the Dichroic to allow selection of the Redundant or the Prime Chain.

This procedure may be required during the OM SVT.

Initial State: OM ON in an Operational Mode. (SAFE, INTERSAFE, IDLE, END, SCIENCE

Final State: OM ON in IDLE.

Step	Time	Activity/Remarks	Command	TM Verification
1		Confirm OM is in one of the operational modes. IDLE, SAFE, INTER SAFE, SCIENCE or ENGINEERING		<u>AND: H100</u> H5395 "OM STATE" =
2		Change to ICU MODE IDLE	<u>H9002</u> GOTO IDLE	<u>AND: H100</u> H5395 "OM STATE" = IDLE H5405 "ICU STATE" = OPERATIONAL H5450 "DPU STATE" = DPUOS
3		Change to ICU MODE ENGINEERING	<u>H9004</u> GOTO ENG	<u>AND: H100</u> H5395 "OM STATE" = ENGINEERING H5405 "ICU STATE" = OPERATIONAL H5450 "DPU STATE" = DPUOS
4		IF SWITCH TO PRIME CHAIN IS REQUIRED GOTO STEP 4.1 OR IF SWITCH TO REDUNDANT CHAIN IS REQUIRED GOTO STEP 4.2		
4.1		SELECT THE PRIME CHAIN. Request DICHROIC move to the Prime Position. Continue with Step 5	<u>H7650</u> SET DICHROIC DIR **H0370 "NUM DIC STEPS" = -1 **H0375 "METHOD" = MAX BY SIGN	
4.2		SELECT THE REDUNDANT CHAIN. Request DICHROIC move to the Redundant Position. Continue with Step 5	<u>H7650</u> SET DICHROIC DIR **H0370 "NUM DIC STEPS" = 1 **H0375 "METHOD" = MAX BY SIGN	
5		Move DICHROIC. Monitor TM.	<u>H5650</u> MOVE DICHROIC	<u>AND: H110</u> H5275 "DICHROIC POS CNT" = H5270 "DICHROIC PHASE" =
6	00:00:25	WAIT FOR TM CONFIRMATION. Wait up to 25 seconds for the TMPSU event. Confirm receipt of TM packet 92600 (PK Dump 1096 OM4)		<u>AND: H911</u> HU010 "TMPSU EVENT" = DICHROIC POS
7		Confirm status in TM If PRIME Selected H5275 = -31 If REDUNDANT Selected H5275 = 32		<u>AND: H110</u> H5270 "DICHROIC PHASE" = H5275 "DICHROIC POS CNT" =

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Step	Time	Activity/Remarks	Command	TM Verification
8		Return to ICU MODE IDLE	<u>H9002</u> GOTO IDLE	<u>AND: H100</u> H5395 "OM STATE" = IDLE H5405 "ICU STATE" = OPERATIONAL H5450 "DPU STATE" = DPUOS
9		END OF PROCEDURE		