

Procedure. Ref.: SVT_OPM_5000 (1,1) NOMINAL SWITCH ON

Procedure Title: Nominal Switch ON

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Purpose of Procedure:

This procedure executes the nominal Switch ON of the OM.

This procedure is foreseen to be used during SVT.

Initial State: OM OFF

Final State: OM ON in INITIAL Mode

Step	Time	Activity/Remarks	Command	TM Verification
1		Confirm KAL enabled for OM		<u>AND: P012</u> P1156 "SPDUA ON/OFF STA" = ON P1400 "SPDU MAINB VOL A" =28.0 +-2 Volt P1403 "SPDUA KAL VOLT" = 8 +- 1V Volt P1410 "SPDUA KAL1 STA" = ON P1411 "SPDUA KAL2 STA" = ON
2		SWITCH OFF ELECTRONIC SUBS HTRS Switch OFF PRIME and SECONDARY TCS MSP Electronic Substitution Heaters for OM. OM1 Telescope Tube OM2 Digital Electronics Module		
2.1		NOMINAL HEATER OM1 Telescope Tube Nominal TCS MSP Electronic Substitution Heaters OFF	<u>T1010</u> TSW OM1 A OFF	<u>AND: H100</u> T1001 "TSW STA OM1A" = OPEN
2.2		NOMINAL HEATER OM2 Prime Digital Electronics Module. Nominal TCS MSP Electronic Substitution Heaters OFF	<u>T1020</u> TSW OM2 N A OFF	<u>AND:</u> <u>H100</u> T1002 "TSW STA OM2NA" = OPEN
2.3		NOMINAL HEATER OM2 Redundant Digital Electronics Module. Nominal TCS MSP Electronic Substitution Heaters OFF	<u>T1030</u> TSW OM2 R A OFF	<u>AND: H100</u> T1003 "TSW STA OM2RA" = OPEN
2.4		SECONDARY HEATER OM1 Telescope Tube Redundant TCS MSP Electronic Substitution Heaters OFF	<u>T1250</u> TSW OM1 B OFF	<u>AND:</u> <u>H100</u> T1025 "TSW STA OM1B" = OPEN
2.5		SECONDARY HEATER OM2 Prime Digital Electronics Module. Redundant TCS MSP Electronic Substitution Heaters OFF	<u>T1260</u> TSW OM2 N B OFF	<u>AND: H100</u> T1026 "TSW STA OM2NB" = OPEN
2.6		SECONDARY HEATER OM2 Redundant Digital Electronics Module. Redundant TCS MSP Electronic Substitution Heaters OFF	<u>T1270</u> TSW OM2 R B OFF	<u>AND: H100</u> T1027 "TSW STA OM2RB" = OPEN

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3		SWITCH ON OM PRIME (A)		
3.1		Check Status of OM Power relays.		<u>AND: H100</u> P1135 "LCL STA OM-B" = OPEN P1107 "LCL STA OM-A" = OPEN
3.2		Switch ON OM (A) Confirm Status in TM.	<u>P3071</u> LCL OM A ON	<u>AND:</u> P1107 "LCL STA OM-A" = CLOSE P1135 "LCL STA OM-B" = OPEN
4		Wait up to 20 seconds for the OM Bootstrap report. Check TM Parameters Packet 92703 (PK Dump TBD)		<u>AND: H920</u> H8100 "BOOT TYPE" = COLD START H8101 "HV SAFED" = H8102 "HTRS SAFED" = H8103 "PHASES SAFED" = H8104 "DPU SAFED" = H8105 "SECONDARIES SAFE" = H8106 "FW SAFED" = H8110 "ICB CMD COUNTER" = H8115 "ICB SYNC ERR CNT" = H8120 "ICB EXT ERR CNT" = H8125 "ICB TX ERR CNT" = H8130 "ICB TOUT CNT" = H8165 "ICB DEAD" = H8135 "COARSE SEEN FLAG" = H8140 "STEPS REMAINING" = H8145 "FINAL STEP CNT" = H8150 "LAST FW PHASE" = H8155 "BAD PHASE" = H8156 "BAD SENSOR READ" = H8157 "BAD LED" = H8160 "ICB INIT CNT" =
5		Verify the arrival of the OM HK Packets. Packet 90000 every 10 seconds.		<u>AND: H100</u>
6		Check ICU Mode and Heater Status. Check OM Power consumption.		<u>AND: H100</u> H5395 "OM STATE" = INITIAL H5240 "HEATER STATUS" = ONONOFFOFF H5255 "SECONDARY V STAT" = DISABLED P1007 "LCL CUR OM-A" = 0.187 +/- 0.05 Amp P1035 "LCL CUR OM-B" = 0+-0.05 Amp
7		END OF PROCEDURE		