

TCS FCCT (FDIR Cross Correlated Table) TOPE Check  
 File: H\_FCP\_TCS\_FCCT.xls  
 Author: E. Picallo



## Procedure Summary

### Objectives

This procedure describes the TCS FCCT (FDIR Cross Correlated Table) TOPE Check

### Summary of Constraints

The provided FDIR cross correlated expected values correspond to the CDMU ASW V3.10 default values.

### Spacecraft Configuration

**Start of Procedure**

Type Pre-condition Here

**End of Procedure**

Type Post-condition Here

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

### Referenced Displays

**ANDs**      **GRDs**      **SLDs**  
 (None)

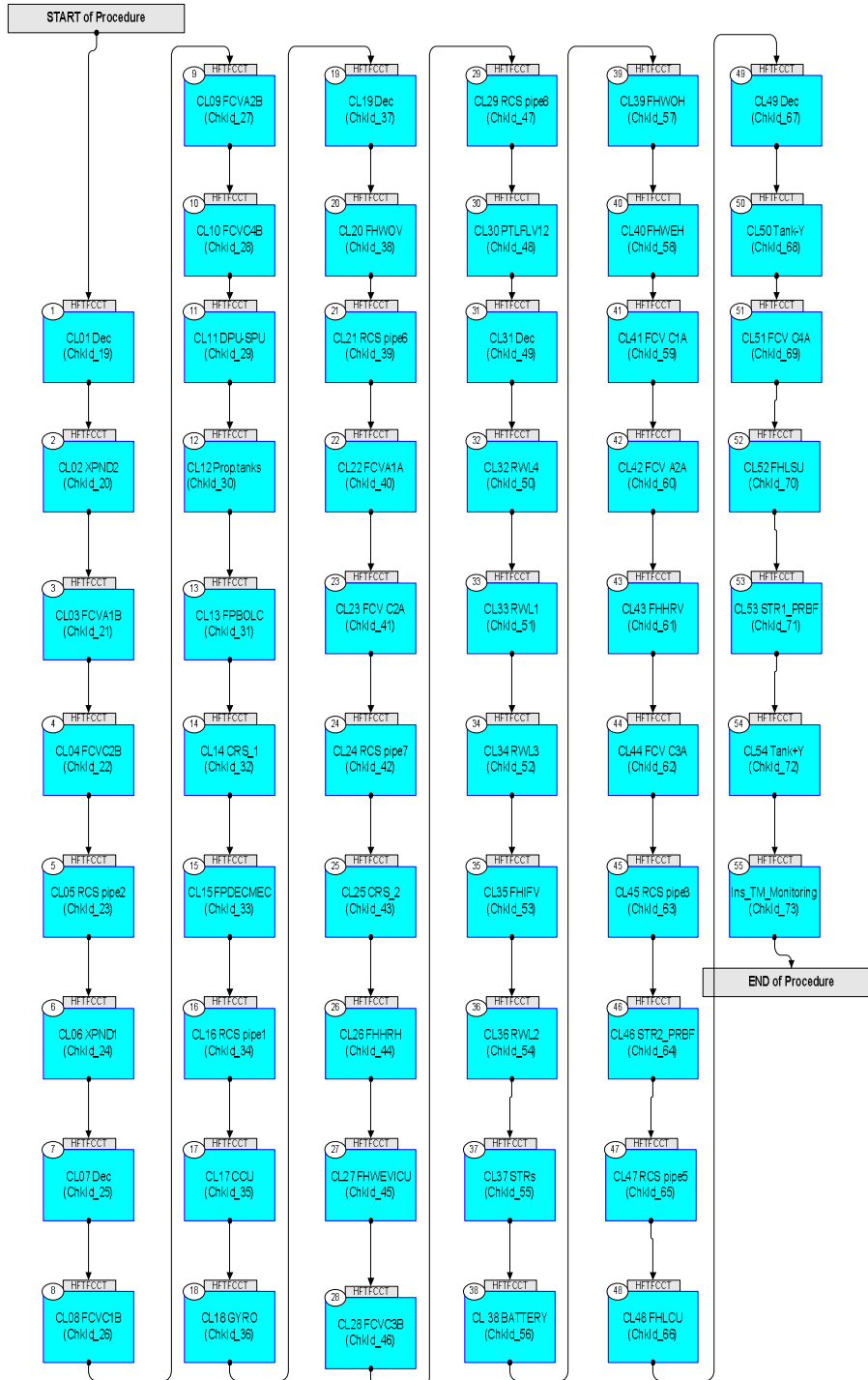
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
19/01/09	2	1	Created	E. Picallo	
05/03/09	2.1	2	Updated with CDMU ASW 3.8.2 FCCT default values	E. Picallo	
18/03/09	2.2	3	Correction: LOW NOP limit for STR-1 & 2 baffle should be -23°C on launch and should not be restored in-flight	E. Picallo	
06/04/09		4	Correction: LOW NOP limit for STR-1 & 2 baffle should be -23.5 °C on launch and should not be restored in-flight	E. Picallo	
09/04/09		5	XPNDs RX Power expected values calibrated	E. Picallo	
21/04/09	2.3	6	Rx power checks deleted	E. Picallo	
18/06/09	2.5	7	loop 17, CCU : FDIR LOW_NOP/OP/Cold Start set to 11°C □ loop 18, GYRO : LOW_NOP/OP/Cold Start set to 9°C □ loop 30, LV : FDIR LOW_NOP/OP/Cold Start set to 7°C □ loop 47, RCSpipe5 : FDIR LOW_NOP/OP/Cold Start set to 16°C	E. Picallo	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name : HFTFCCT (TCS FCCT TOPE Check)				
TimeTag Type: Sub Schedule ID:  □				
1		CL01 Dec (ChkId_19)		Next Step: 2
		FdirLowNOP1 DE510170	= 0 <dec>	
		FdirHighNOP1 DE511170	= 0 <dec>	
		Timeout1 DE512170	= 0 <dec>	
		ColdStartTemp1 DE513170	= 0 <dec>	
		FdirLowOP1 DE514170	= 0 <dec>	
		FdirHighOP1 DE515170	= 0 <dec>	
2		CL02 XPND2 (ChkId_20)		Next Step: 3
		FdirLowNOP2 DE518170	= -12 <dec>	
		FdirHighNOP2 DE519170	= 52 <dec>	
		Timeout2 DE520170	= 64800 <dec>	
		ColdStartTemp2 DE521170	= -12 <dec>	
		FdirLowOP2 DE522170	= -12 <dec>	
		FdirHighOP2 DE523170	= 52 <dec>	
3		CL03 FCVA1B (ChkId_21)		Next Step: 4
		FdirLowNOP3 DE526170	= 8 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP3	DE527170	= 90 <dec>
		Timeout3	DE528170	= 64800 <dec>
		ColdStartTemp3	DE529170	= 8 <dec>
		FdirLowOP3	DE530170	= 8 <dec>
		FdirHighOP3	DE531170	= 90 <dec>
4		CL04 FCVC2B (ChkId_22)		Next Step: 5
		FdirLowNOP4	DE534170	= 8 <dec>
		FdirHighNOP4	DE535170	= 90 <dec>
		Timeout4	DE536170	= 64800 <dec>
		ColdStartTemp4	DE537170	= 8 <dec>
		FdirLowOP4	DE538170	= 8 <dec>
		FdirHighOP4	DE539170	= 90 <dec>
5		CL05 RCS pipe2 (ChkId_23)		Next Step: 6
		FdirLowNOP5	DE542170	= 12 <dec>
		FdirHighNOP5	DE543170	= 52 <dec>
		Timeout5	DE544170	= 64800 <dec>
		ColdStartTemp5	DE545170	= 12 <dec>
		FdirLowOP5	DE546170	= 12 <dec>
		FdirHighOP5	DE547170	= 52 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
6		CL06 XPND1 (ChkId_24)		Next Step: 7
		FdirLowNOP6	DE550170	= -12 <dec>
		FdirHighNOP6	DE551170	= 52 <dec>
		Timeout6	DE552170	= 64800 <dec>
		ColdStartTemp6	DE553170	= -12 <dec>
		FdirLowOP6	DE554170	= -12 <dec>
		FdirHighOP6	DE555170	= 52 <dec>
7		CL07 Dec (ChkId_25)		Next Step: 8
		FdirLowNOP7	DE558170	= 0 <dec>
		FdirHighNOP7	DE559170	= 0 <dec>
		Timeout7	DE560170	= 0 <dec>
		ColdStartTemp7	DE561170	= 0 <dec>
		FdirLowOP7	DE562170	= 0 <dec>
		FdirHighOP7	DE563170	= 0 <dec>
8		CL08 FCVC1B (ChkId_26)		Next Step: 9
		FdirLowNOP8	DE566170	= 8 <dec>
		FdirHighNOP8	DE567170	= 90 <dec>
		Timeout8	DE568170	= 64800 <dec>
		ColdStartTemp8	DE569170	= 8 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirLowOP8	DE570170	= 8 <dec>
		FdirHighOP8	DE571170	= 90 <dec>
9		CL09 FCVA2B (ChkId_27)		Next Step: 10
		FdirLowNOP9	DE574170	= 8 <dec>
		FdirHighNOP9	DE575170	= 90 <dec>
		Timeout9	DE576170	= 64800 <dec>
		ColdStartTemp9	DE577170	= 8 <dec>
		FdirLowOP9	DE578170	= 8 <dec>
		FdirHighOP9	DE579170	= 90 <dec>
10		CL10 FCVC4B (ChkId_28)		Next Step: 11
		FdirLowNOP10	DE582170	= 8 <dec>
		FdirHighNOP10	DE583170	= 90 <dec>
		Timeout10	DE584170	= 64800 <dec>
		ColdStartTemp10	DE585170	= 8 <dec>
		FdirLowOP10	DE586170	= 8 <dec>
		FdirHighOP10	DE587170	= 90 <dec>
11		CL11 DPU-SPU (ChkId_29)		Next Step: 12
		FdirLowNOP11	DE590170	= -25 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP11	DE591170	= 47 <dec>
		Timeout11	DE592170	= 64800 <dec>
		ColdStartTemp11	DE593170	= -25 <dec>
		FdirLowOP11	DE594170	= -17 <dec>
		FdirHighOP11	DE595170	= 47 <dec>
12		<i>CL12 Prop.tanks (ChkId_30)</i>		Next Step: 13
		FdirLowNOP12	DE598170	= 0 <dec>
		FdirHighNOP12	DE599170	= 0 <dec>
		Timeout12	DE600170	= 0 <dec>
		ColdStartTemp12	DE601170	= 0 <dec>
		FdirLowOP12	DE602170	= 0 <dec>
		FdirHighOP12	DE603170	= 0 <dec>
13		<i>CL13 FPBOLC (ChkId_31)</i>		Next Step: 14
		FdirLowNOP13	DE606170	= -21 <dec>
		FdirHighNOP13	DE607170	= 47 <dec>
		Timeout13	DE608170	= 64800 <dec>
		ColdStartTemp13	DE609170	= -21 <dec>
		FdirLowOP13	DE610170	= -17 <dec>
		FdirHighOP13	DE611170	= 47 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
14		CL14 CRS_1 (ChkId_32)		Next Step: 15
		FdirLowNOP14	DE614170	= 43 <dec>
		FdirHighNOP14	DE615170	= 52 <dec>
		Timeout14	DE616170	= 64800 <dec>
		ColdStartTemp14	DE617170	= 43 <dec>
		FdirLowOP14	DE618170	= 43 <dec>
		FdirHighOP14	DE619170	= 52 <dec>
15		CL15 FPDECMEC (ChkId_33)		Next Step: 16
		FdirLowNOP15	DE622170	= -22 <dec>
		FdirHighNOP15	DE623170	= 47 <dec>
		Timeout15	DE624170	= 64800 <dec>
		ColdStartTemp15	DE625170	= -22 <dec>
		FdirLowOP15	DE626170	= -17 <dec>
		FdirHighOP15	DE627170	= 47 <dec>
16		CL16 RCS pipe1 (ChkId_34)		Next Step: 17
		FdirLowNOP16	DE630170	= 20 <dec>
		FdirHighNOP16	DE631170	= 52 <dec>
		Timeout16	DE632170	= 64800 <dec>
		ColdStartTemp16	DE633170	= 20 <dec>



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirLowNOP16	DE634170	= 20 <dec>
		FdirHighNOP16	DE635170	= 52 <dec>
17		CL17 CCU (ChkId_35)		Next Step: 18
		FdirLowNOP17	DE638170	= 11.0 <dec>
		FdirHighNOP17	DE639170	= 42 <dec>
		Timeout17	DE640170	= 64800 <dec>
		ColdStartTemp17	DE641170	= 11.0 <dec>
		FdirLowNOP17	DE642170	= 11.0 <dec>
		FdirHighNOP17	DE643170	= 42 <dec>
18		CL18 GYRO (ChkId_36)		Next Step: 19
		FdirLowNOP18	DE646170	= 9.0 <dec>
		FdirHighNOP18	DE647170	= 65 <dec>
		Timeout18	DE648170	= 64800 <dec>
		ColdStartTemp18	DE649170	= 9.0 <dec>
		FdirLowNOP18	DE650170	= 9.0 <dec>
		FdirHighNOP18	DE651170	= 65 <dec>
19		CL19 Dec (ChkId_37)		Next Step: 20
		FdirLowNOP19	DE654170	= 0 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP19	DE655170	= 0 <dec>
		Timeout19	DE656170	= 0 <dec>
		ColdStartTemp19	DE657170	= 0 <dec>
		FdirLowOP19	DE658170	= 0 <dec>
		FdirHighOP19	DE659170	= 0 <dec>
20		CL20 FHWOV (ChkId_38)		Next Step: 21
		FdirLowNOP20	DE662170	= -20.0 <dec>
		FdirHighNOP20	DE663170	= 12 <dec>
		Timeout20	DE664170	= 64800 <dec>
		ColdStartTemp20	DE665170	= -20.0 <dec>
		FdirLowOP20	DE666170	= 2 <dec>
		FdirHighOP20	DE667170	= 12 <dec>
21		CL21 RCS pipe6 (ChkId_39)		Next Step: 22
		FdirLowNOP21	DE670170	= 11 <dec>
		FdirHighNOP21	DE671170	= 52 <dec>
		Timeout21	DE672170	= 64800 <dec>
		ColdStartTemp21	DE673170	= 11 <dec>
		FdirLowOP21	DE674170	= 11 <dec>
		FdirHighOP21	DE675170	= 52 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
22		CL22 FCVA1A (ChkId_40)		Next Step: 23
		FdirLowNOP22	DE678170	= 8 <dec>
		FdirHighNOP22	DE679170	= 90 <dec>
		Timeout22	DE680170	= 64800 <dec>
		ColdStartTemp22	DE681170	= 8 <dec>
		FdirLowOP22	DE682170	= 8 <dec>
		FdirHighOP22	DE683170	= 90 <dec>
23		CL23 FCV C2A (ChkId_41)		Next Step: 24
		FdirLowNOP23	DE686170	= 8 <dec>
		FdirHighNOP23	DE687170	= 90 <dec>
		Timeout23	DE688170	= 64800 <dec>
		ColdStartTemp23	DE689170	= 8 <dec>
		FdirLowOP23	DE690170	= 8 <dec>
		FdirHighOP23	DE691170	= 90 <dec>
24		CL24 RCS pipe7 (ChkId_42)		Next Step: 25
		FdirLowNOP24	DE694170	= 11 <dec>
		FdirHighNOP24	DE695170	= 52 <dec>
		Timeout24	DE696170	= 64800 <dec>
		ColdStartTemp24	DE697170	= 11 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirLowOP24 DE698170	= 11 <dec>	
		FdirHighOP24 DE699170	= 52 <dec>	
25		CL25 CRS_2 (ChkId_43)		Next Step: 26
		FdirLowNOP25 DE702170	= 43 <dec>	
		FdirHighNOP25 DE703170	= 52 <dec>	
		Timeout25 DE704170	= 64800 <dec>	
		ColdStartTemp25 DE705170	= 43 <dec>	
		FdirLowOP25 DE706170	= 43 <dec>	
		FdirHighOP25 DE707170	= 52 <dec>	
26		CL26 FHHRH (ChkId_44)		Next Step: 27
		FdirLowNOP26 DE710170	= -22 <dec>	
		FdirHighNOP26 DE711170	= 31.0 <dec>	
		Timeout26 DE712170	= 64800 <dec>	
		ColdStartTemp26 DE713170	= -22 <dec>	
		FdirLowOP26 DE714170	= 25.0 <dec>	
		FdirHighOP26 DE715170	= 31.0 <dec>	
27		CL27 FHWEVICU (ChkId_45)		Next Step: 28
		FdirLowNOP27 DE718170	= -22.0 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP27	DE719170	= 32 <dec>
		Timeout27	DE720170	= 64800 <dec>
		ColdStartTemp27	DE721170	= -22.0 <dec>
		FdirLowOP27	DE722170	= -2 <dec>
		FdirHighOP27	DE723170	= 32 <dec>
28		CL28 FCVC3B (ChkId_46)		Next Step: 29
		FdirLowNOP28	DE726170	= 8 <dec>
		FdirHighNOP28	DE727170	= 90 <dec>
		Timeout28	DE728170	= 64800 <dec>
		ColdStartTemp28	DE729170	= 8 <dec>
		FdirLowOP28	DE730170	= 8 <dec>
		FdirHighOP28	DE731170	= 90 <dec>
29		CL29 RCS pipe8 (ChkId_47)		Next Step: 30
		FdirLowNOP29	DE734170	= 10 <dec>
		FdirHighNOP29	DE735170	= 52 <dec>
		Timeout29	DE736170	= 64800 <dec>
		ColdStartTemp29	DE737170	= 10 <dec>
		FdirLowOP29	DE738170	= 10 <dec>
		FdirHighOP29	DE739170	= 52 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
30		CL30 PTLFLV12 (ChkId_48)		Next Step: 31
		FdirLowNOP30 DE742170	= 7.0 <dec>	
		FdirHighNOP30 DE743170	= 52 <dec>	
		Timeout30 DE744170	= 64800 <dec>	
		ColdStartTemp30 DE745170	= 7.0 <dec>	
		FdirLowOP30 DE746170	= 7.0 <dec>	
		FdirHighOP30 DE747170	= 52 <dec>	
31		CL31 Dec (ChkId_49)		Next Step: 32
		FdirLowNOP31 DE750170	= 0 <dec>	
		FdirHighNOP31 DE751170	= 0 <dec>	
		Timeout31 DE752170	= 0 <dec>	
		ColdStartTemp31 DE753170	= 0 <dec>	
		FdirLowOP31 DE754170	= 0 <dec>	
		FdirHighOP31 DE755170	= 0 <dec>	
32		CL32 RWL4 (ChkId_50)		Next Step: 33
		FdirLowNOP32 DE758170	= -6 <dec>	
		FdirHighNOP32 DE759170	= 57 <dec>	
		Timeout32 DE760170	= 64800 <dec>	
		ColdStartTemp32 DE761170	= -6 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirLowOP32 DE762170	= -2 <dec>	
		FdirHighOP32 DE763170	= 57 <dec>	
33		CL33 RWL1 (ChkId_51)		Next Step: 34
		FdirLowNOP33 DE766170	= -6 <dec>	
		FdirHighNOP33 DE767170	= 57 <dec>	
		Timeout33 DE768170	= 64800 <dec>	
		ColdStartTemp33 DE769170	= -6 <dec>	
		FdirLowOP33 DE770170	= -2 <dec>	
		FdirHighOP33 DE771170	= 57 <dec>	
34		CL34 RWL3 (ChkId_52)		Next Step: 35
		FdirLowNOP34 DE774170	= -6 <dec>	
		FdirHighNOP34 DE775170	= 57 <dec>	
		Timeout34 DE776170	= 64800 <dec>	
		ColdStartTemp34 DE777170	= -6 <dec>	
		FdirLowOP34 DE778170	= -2 <dec>	
		FdirHighOP34 DE779170	= 57 <dec>	
35		CL35 FHIFV (ChkId_53)		Next Step: 36
		FdirLowNOP35 DE782170	= -12 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP35	DE783170	= 42 <dec>
		Timeout35	DE784170	= 64800 <dec>
		ColdStartTemp35	DE785170	= -12 <dec>
		FdirLowOP35	DE786170	= -12 <dec>
		FdirHighOP35	DE787170	= 42 <dec>
36		CL36 RWL2 (ChkId_54)		Next Step: 37
		FdirLowNOP36	DE790170	= -6 <dec>
		FdirHighNOP36	DE791170	= 57 <dec>
		Timeout36	DE792170	= 64800 <dec>
		ColdStartTemp36	DE793170	= -6 <dec>
		FdirLowOP36	DE794170	= -2 <dec>
		FdirHighOP36	DE795170	= 57 <dec>
37		CL37 STRs (ChkId_55)		Next Step: 38
		FdirLowNOP37	DE798170	= -10 <dec>
		FdirHighNOP37	DE799170	= 30 <dec>
		Timeout37	DEZ00170	= 64800 <dec>
		ColdStartTemp37	DEZ01170	= -10 <dec>
		FdirLowOP37	DEZ02170	= -3 <dec>
		FdirHighOP37	DEZ03170	= 30 <dec>



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
38		CL 38 BATTERY (ChkId_56)		Next Step: 39
		FdirLowNOP38	DEZ06170	= -2 <dec>
		FdirHighNOP38	DEZ07170	= 37 <dec>
		Timeout38	DEZ08170	= 64800 <dec>
		ColdStartTemp38	DEZ09170	= -2 <dec>
		FdirLowOP38	DEZ10170	= -2 <dec>
		FdirHighOP38	DEZ11170	= 37 <dec>
39		CL39 FHWOH (ChkId_57)		Next Step: 40
		FdirLowNOP39	DEZ14170	= -15.0 <dec>
		FdirHighNOP39	DEZ15170	= 11 <dec>
		Timeout39	DEZ16170	= 64800 <dec>
		ColdStartTemp39	DEZ17170	= -15.0 <dec>
		FdirLowOP39	DEZ18170	= 1 <dec>
		FdirHighOP39	DEZ19170	= 11 <dec>
40		CL40 FHWEH (ChkId_58)		Next Step: 41
		FdirLowNOP40	DEZ22170	= -7.0 <dec>
		FdirHighNOP40	DEZ23170	= 32 <dec>
		Timeout40	DEZ24170	= 64800 <dec>
		ColdStartTemp40	DEZ25170	= -7.0 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirLowNOP40	DEZ26170	= -2 <dec>
		FdirHighNOP40	DEZ27170	= 32 <dec>
41		CL41 FCV C1A (ChkId_59)		Next Step: 42
		FdirLowNOP41	DEZ30170	= 8 <dec>
		FdirHighNOP41	DEZ31170	= 90 <dec>
		Timeout41	DEZ32170	= 64800 <dec>
		ColdStartTemp41	DEZ33170	= 8 <dec>
		FdirLowNOP41	DEZ34170	= 8 <dec>
		FdirHighNOP41	DEZ35170	= 90 <dec>
42		CL42 FCV A2A (ChkId_60)		Next Step: 43
		FdirLowNOP42	DEZ38170	= 8 <dec>
		FdirHighNOP42	DEZ39170	= 90 <dec>
		Timeout42	DEZ40170	= 64800 <dec>
		ColdStartTemp42	DEZ41170	= 8 <dec>
		FdirLowNOP42	DEZ42170	= 8 <dec>
		FdirHighNOP42	DEZ43170	= 90 <dec>
43		CL43 FHHRV (ChkId_61)		Next Step: 44
		FdirLowNOP43	DEZ46170	= -25 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP43	DEZ47170	= 25.0 <dec>
		Timeout43	DEZ48170	= 64800 <dec>
		ColdStartTemp43	DEZ49170	= -25 <dec>
		FdirLowOP43	DEZ50170	= 19.0 <dec>
		FdirHighOP43	DEZ51170	= 25.0 <dec>
44		CL44 FCV C3A (ChkId_62)		Next Step: 45
		FdirLowNOP44	DEZ54170	= 8 <dec>
		FdirHighNOP44	DEZ55170	= 90 <dec>
		Timeout44	DEZ56170	= 64800 <dec>
		ColdStartTemp44	DEZ57170	= 8 <dec>
		FdirLowOP44	DEZ58170	= 8 <dec>
		FdirHighOP44	DEZ59170	= 90 <dec>
45		CL45 RCS pipe3 (ChkId_63)		Next Step: 46
		FdirLowNOP45	DEZ62170	= 11 <dec>
		FdirHighNOP45	DEZ63170	= 52 <dec>
		Timeout45	DEZ64170	= 64800 <dec>
		ColdStartTemp45	DEZ65170	= 11 <dec>
		FdirLowOP45	DEZ66170	= 11 <dec>
		FdirHighOP45	DEZ67170	= 52 <dec>

TCS FCCT (FDIR Cross Correlated Table) TOPE Check  
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
46		CL46 STR2_PRRF (ChkId_64)		Next Step: 47
		FdirLowNOP46	DEZ70170	= -23.5 <dec>
		FdirHighNOP46	DEZ71170	= 30 <dec>
		Timeout46	DEZ72170	= 64800 <dec>
		ColdStartTemp46	DEZ73170	= -23.5 <dec>
		FdirLowOP46	DEZ74170	= 11 <dec>
		FdirHighOP46	DEZ75170	= 30 <dec>
47		CL47 RCS pipe5 (ChkId_65)		Next Step: 48
		FdirLowNOP47	DEZ78170	= 16.0 <dec>
		FdirHighNOP47	DEZ79170	= 52 <dec>
		Timeout47	DEZ80170	= 64800 <dec>
		ColdStartTemp47	DEZ81170	= 16.0 <dec>
		FdirLowOP47	DEZ82170	= 16.0 <dec>
		FdirHighOP47	DEZ83170	= 52 <dec>
48		CL48 FHLCU (ChkId_66)		Next Step: 49
		FdirLowNOP48	DEZ86170	= -20.0 <dec>
		FdirHighNOP48	DEZ87170	= 42 <dec>
		Timeout48	DEZ88170	= 64800 <dec>
		ColdStartTemp48	DEZ89170	= -20.0 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirLowNOP48	DEZ90170	= 8.0 <dec>
		FdirHighNOP48	DEZ91170	= 42 <dec>
49		CL49 Dec (ChkId_67)		Next Step: 50
		FdirLowNOP49	DEZ94170	= 0 <dec>
		FdirHighNOP49	DEZ95170	= 0 <dec>
		Timeout49	DEZ96170	= 0 <dec>
		ColdStartTemp49	DEZ97170	= 0 <dec>
		FdirLowNOP49	DEZ98170	= 0 <dec>
		FdirHighNOP49	DEZ99170	= 0 <dec>
50		CL50 Tank-Y (ChkId_68)		Next Step: 51
		FdirLowNOP50	DEY02170	= 8 <dec>
		FdirHighNOP50	DEY03170	= 40.0 <dec>
		Timeout50	DEY04170	= 64800 <dec>
		ColdStartTemp50	DEY05170	= 8 <dec>
		FdirLowNOP50	DEY06170	= 8 <dec>
		FdirHighNOP50	DEY07170	= 40.0 <dec>
51		CL51 FCV C4A (ChkId_69)		Next Step: 52
		FdirLowNOP51	DEY10170	= 8 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		FdirHighNOP51	DEY11170	= 90 <dec>
		Timeout51	DEY12170	= 64800 <dec>
		ColdStartTemp51	DEY13170	= 8 <dec>
		FdirLowOP51	DEY14170	= 8 <dec>
		FdirHighOP51	DEY15170	= 90 <dec>
52		CL52 FHLSU (ChkId_70)		Next Step: 53
		FdirLowNOP52	DEY18170	= -13.0 <dec>
		FdirHighNOP52	DEY19170	= 37.0 <dec>
		Timeout52	DEY20170	= 64800 <dec>
		ColdStartTemp52	DEY21170	= -13.0 <dec>
		FdirLowOP52	DEY22170	= 8 <dec>
		FdirHighOP52	DEY23170	= 37.0 <dec>
53		CL53 STR1_PRBF (ChkId_71)		Next Step: 54
		FdirLowNOP53	DEY26170	= -23.5 <dec>
		FdirHighNOP53	DEY27170	= 30 <dec>
		Timeout53	DEY28170	= 64800 <dec>
		ColdStartTemp53	DEY29170	= -23.5 <dec> (None)
		FdirLowOP53	DEY30170	= 11 <dec>
		FdirHighOP53	DEY31170	= 30 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
54		<i>CL54 Tank+Y</i> (ChkId_72)		Next Step: 55
		FdirLowNOP54      DEY34170	= 8 <dec>	
		FdirHighNOP54      DEY35170	= 40.0 <dec>	
		Timeout54      DEY36170	= 64800 <dec>	
		ColdStartTemp54      DEY37170	= 8 <dec>	
		FdirLowOP54      DEY38170	= 8 <dec>	
		FdirHighOP54      DEY39170	= 40.0 <dec>	
55		<i>Ins_TM_Monitoring</i> (ChkId_73)		Next Step: END
		Verify Telemetry InstrTmDeltaT      DEY42170	= 30 <dec>	(None)
<b>End of Procedure</b>				