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# Planck LFI

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## CHANGE RECORD

Issue	Date	Sheet	Description of Change	Release
1.0	<i>19 January 2009</i>	All	First release	FM 4.5.0



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## 1 INTRODUCTION

This document contains the release note for the LFI FM database version 4.5.0, based on the official release (LFI FM 4.4.2) with the following NCRs applied:

- **NCR LFI-0022: New REBA diagnostic HK parameters.**

In “diagnostic parameter report” telemetry, TM(3,26), some parameters of the “REBA diagnostic HK” packet (SPID = 120300369) do not have the corresponding SCOS parameter. These parameters concern the “DPU FIFOS and MAP status”, “SPU Science processing IP” and “SPU FIFOS Status” sections of this packet. Such parameters should be added to improve the REBA diagnostic HK monitoring.
- **NCR LFI-0023: Changes in TM(8,6)**
  1. No SCOS parameter is associated to the LFI “Function Status report” telemetry (TM(8,6)). To improve the monitoring, two parameters should be added: the Function ID and the Activity ID. The corresponding two fields of the TM(8,6) packets should be associated with these new parameters.
  2. Two TM(8,6) packets, concerning the TM compression monitoring function, are no more generated by the LFI on-board software: they should be removed from the LFI MIB.
- **NCR LFI-0024: Drain currents OOL (Out Of Limit) changes.**

Drain currents out of limit values have been updated. In particular all “cold” values have been changed. In addition, also “warm” values for RCA 18 S2 (parameter LM087322) have been modified.
- **NCR LFI-0025: Changes in TM(1,2).**

Seven new error conditions have been added to the LFI MIB for the “TC report acceptance failure” (TM(1,2)). One error condition definition has been changed. For other three error conditions the definition has been improved by adding the SCOS parameters corresponding to each returned value.
- **NCR LFI-0026: Changes in TM(1,8).**

Seven new error conditions have been added to the LFI MIB for the “TC report execution failure” (TM(1,8)). One error condition definition has been changed. For other three error conditions the definition has been improved by adding the SCOS parameters corresponding to each returned value.



## 2 DATABASE VERSION

The Database version delivered is the one obtained by applying the changes specified in the NCRs NCR LFI-0022, LFI-0023, LFI-0024, LFI-0025, LFI-0026 to the database version 4.4.2.

The upgraded version is tagged with: FM\_4.5.0



### 3 CHANGES TO THE PREVIOUS VERSION

The changes with respect to the LFI FM 4.4.2 are here reported:

#### 3.1 NCR LFI-0022: NEW REBA DIAGNOSTIC HK PARAMETERS

Tables affected: pcf.dat, plf.dat

The following parameters have been added to the pcf.dat table:

PCF_NAME	PCF_DESCR	PCF_PTC	PCF_PFC	PCF_VALID	PCF_CATEG	PCF_NATUR	PCF_VALPAR
LM124340	OBT last SPU	9	17	LD100340	N	R	1
LM125340	FIF_TM_GEN_QUE	3	4	LD100340	N	R	1
LM126340	FIF_TM_SC_QUE	3	4	LD100340	N	R	1
LM127340	FIF_TC_QUE	3	4	LD100340	N	R	1
LM128340	FIF_FPT_MONIT	3	4	LD100340	N	R	1
LM129340	FIF_CPU_MONIT	3	4	LD100340	N	R	1
LM130340	FIF_CF_MONIT	3	4	LD100340	N	R	1
LM131340	FIF_DPU_RX_SPU	3	4	LD100340	N	R	1
LM132340	FIF_DPU_ERR_QUE	3	4	LD100340	N	R	1
LM133340	FIF_DPU_SPU_HK	3	4	LD100340	N	R	1
LM134340	TC block map	3	4	LD100340	N	R	1
LM135340	TM block map	3	4	LD100340	N	R	1
LM136340	Science TM produced	3	14	LD100340	N	R	1
LM137340	DAE blocks received	3	14	LD100340	N	R	1
LM138340	DAE total blocks	3	14	LD100340	N	R	1
LM139340	FIF_CH_READY	3	4	LD100340	N	R	1
LM140340	FIF_SC_FREE	3	4	LD100340	N	R	1
LM141340	FIF_SC_TX	3	4	LD100340	N	R	1
LM142340	FIF_SPU_RX_DP	3	4	LD100340	N	R	1
LM143340	FIF_SPU_ERR_QUE	3	4	LD100340	N	R	1

Consequently, the following rows have been added in the plf.dat table:

PLF_NAME	PLF_SPID	PLF_OFFBY	PLF_OFFBI
LM124340	120300369	214	0
LM125340	120300369	220	0
LM126340	120300369	221	0

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LM127340	120300369	222	0
LM128340	120300369	223	0
LM129340	120300369	224	0
LM130340	120300369	225	0
LM131340	120300369	226	0
LM132340	120300369	227	0
LM133340	120300369	228	0
LM134340	120300369	229	0
LM135340	120300369	230	0
LM136340	120300369	244	0
LM137340	120300369	248	0
LM138340	120300369	252	0
LM139340	120300369	256	0
LM140340	120300369	257	0
LM141340	120300369	258	0
LM142340	120300369	259	0
LM143340	120300369	260	0

## 3.2 NCR LFI-0023: CHANGES IN TM(8,6)

### 3.2.1 PARAMETERS: FUNCTION ID AND ACTIVITY ID

Tables affected: tpcf.dat, pcf.dat, plf.dat

The following rows have been modified in the tpcf.dat table:

TPCF_SPID	TPCF_NAME
120800340	D ASW Stop
120801340	D ASW Run
120802340	S SUSW Stop
120803340	S SUSW Run
120804340	S ASW Stop
120805340	S ASW Run
120806340	S CPUM Stop
120807340	S CPUM Run
120808340	DAE Ctr Stop
120809340	DAE ctr Run
120810340	DAE HK Stop
120811340	DAE HK Run
120812340	FP mon Stop



120813340	FP mon Run
120814340	Sci Pro Stop
120815340	Sci Pro Run
120816340	TM Rate Stop
120817340	TM Rate Run
120818340	Com Mon Stop
120819340	Com Mon Run
120820340	Cal Sch Stop
120821340	Cal Sch Run
120822340	D SUSW stop
120823340	D SUSW Run

The following parameters have been added to the pcf.dat table:

PCF_NAME	PCF_DESCR	PCF_PTC	PCF_PFC	PCF_CATEG	PCF_NATUR	PCF_VALPAR
LM600340	Function ID	2	8	N	R	1
LM601340	Activity ID	2	8	N	R	1

Consequently, the following rows have been added in the plf.dat table:

PLF_NAME	PLF_SPID	PLF_OFFBY	PLF_OFFBI
LM600340	120822340	16	0
LM601340	120822340	17	0
LM600340	120823340	16	0
LM601340	120823340	17	0
LM600340	120800340	16	0
LM601340	120800340	17	0
LM600340	120801340	16	0
LM601340	120801340	17	0
LM600340	120802340	16	0
LM601340	120802340	17	0
LM600340	120803340	16	0
LM601340	120803340	17	0
LM600340	120804340	16	0
LM601340	120804340	17	0
LM600340	120805340	16	0
LM601340	120805340	17	0
LM600340	120806340	16	0
LM601340	120806340	17	0
LM600340	120807340	16	0
LM601340	120807340	17	0

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LM600340	120808340	16	0
LM601340	120808340	17	0
LM600340	120809340	16	0
LM601340	120809340	17	0
LM600340	120810340	16	0
LM601340	120810340	17	0
LM600340	120811340	16	0
LM601340	120811340	17	0
LM600340	120812340	16	0
LM601340	120812340	17	0
LM600340	120813340	16	0
LM601340	120813340	17	0
LM600340	120814340	16	0
LM601340	120814340	17	0
LM600340	120815340	16	0
LM601340	120815340	17	0
LM600340	120816340	16	0
LM601340	120816340	17	0
LM600340	120817340	16	0
LM601340	120817340	17	0
LM600340	120820340	16	0
LM601340	120820340	17	0
LM600340	120821340	16	0
LM601340	120821340	17	0

### 3.2.2 PACKETS TO BE REMOVED

Tables affected: pid.dat, plf.dat

The following two packets should be removed from pid.dat table:

PID_TYPE	PID_STYPE	PID_APID	PID_P11_VAL	PID_P12_VAL	PID_SPID	PID_DESCR
8	6	1536	10240	0	120818340	Compression mon is not running
8	6	1536	10495	0	120819340	Compression mon is running

Consequently, the following rows should be removed from the plf.dat table:

PLF_NAME	PLF_SPID	PLF_OFFBY	PLF_OFFBI
LM600340	120818340	16	0
LM601340	120818340	17	0

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LM600340	120819340	16	0
LM601340	120819340	17	0

### 3.3 NCR LFI-0024: DRAIN CURRENTS OOL CHANGES

Tables affected: ocp.dat

The following Out Of limit (OOL) values have been changed in the ocp.dat table:

LM051322	1	S	8.18	8.52	LD103322	1
LM051322	2	H	7.93	8.94	LD103322	1
LM051322	3	S	15.19	15.65	LD103322	0
LM051322	4	H	14.65	16.19	LD103322	0
LM052322	1	S	7.11	7.40	LD103322	1
LM052322	2	H	6.89	7.76	LD103322	1
LM052322	3	S	14.88	15.34	LD103322	0
LM052322	4	H	14.35	15.87	LD103322	0
LM053322	1	S	8.35	8.69	LD103322	1
LM053322	2	H	8.09	9.12	LD103322	1
LM053322	3	S	15.39	15.85	LD103322	0
LM053322	4	H	14.84	16.4	LD103322	0
LM054322	1	S	7.89	8.21	LD103322	1
LM054322	2	H	7.65	8.62	LD103322	1
LM054322	3	S	14.94	15.4	LD103322	0
LM054322	4	H	14.41	15.93	LD103322	0
LM055322	1	S	9.80	10.19	LD103322	1
LM055322	2	H	9.50	10.70	LD103322	1
LM055322	3	S	28.39	29.25	LD103322	0
LM055322	4	H	27.38	30.26	LD103322	0
LM056322	1	S	14.17	14.74	LD103322	1
LM056322	2	H	13.73	15.48	LD103322	1
LM056322	3	S	28.07	28.93	LD103322	0
LM056322	4	H	27.08	29.93	LD103322	0
LM057322	1	S	9.74	10.13	LD103322	1
LM057322	2	H	9.44	10.64	LD103322	1
LM057322	3	S	28.93	29.81	LD103322	0
LM057322	4	H	27.9	30.84	LD103322	0
LM058322	1	S	12.63	13.15	LD103322	1
LM058322	2	H	12.25	13.81	LD103322	1
LM058322	3	S	28.9	29.78	LD103322	0
LM058322	4	H	27.87	30.81	LD103322	0
LM059322	1	S	20.01	20.82	LD103322	1
LM059322	2	H	19.39	21.86	LD103322	1
LM059322	3	S	19.93	20.53	LD103322	0
LM059322	4	H	19.22	21.24	LD103322	0
LM060322	1	S	16.29	16.96	LD103322	1



LM060322	2	H	15.79	17.81	LD103322	1
LM060322	3	S	17.45	17.99	LD103322	0
LM060322	4	H	16.83	18.61	LD103322	0
LM061322	1	S	18.35	19.09	LD103322	1
LM061322	2	H	17.78	20.05	LD103322	1
LM061322	3	S	17.52	18.06	LD103322	0
LM061322	4	H	16.9	18.68	LD103322	0
LM062322	1	S	19.43	20.22	LD103322	1
LM062322	2	H	18.83	21.23	LD103322	1
LM062322	3	S	18.98	19.56	LD103322	0
LM062322	4	H	18.31	20.23	LD103322	0
LM063322	1	S	15.14	15.75	LD103322	1
LM063322	2	H	14.67	16.54	LD103322	1
LM063322	3	S	18.71	19.27	LD103322	0
LM063322	4	H	18.04	19.94	LD103322	0
LM064322	1	S	16.35	17.01	LD103322	1
LM064322	2	H	15.85	17.86	LD103322	1
LM064322	3	S	18.31	18.87	LD103322	0
LM064322	4	H	17.66	19.52	LD103322	0
LM065322	1	S	14.04	14.62	LD103322	1
LM065322	2	H	13.61	15.35	LD103322	1
LM065322	3	S	18.4	18.96	LD103322	0
LM065322	4	H	17.75	19.61	LD103322	0
LM066322	1	S	14.71	15.31	LD103322	1
LM066322	2	H	14.26	16.08	LD103322	1
LM066322	3	S	18.32	18.88	LD103322	0
LM066322	4	H	17.67	19.53	LD103322	0
LM067322	1	S	14.79	15.39	LD104322	1
LM067322	2	H	14.34	16.16	LD104322	1
LM067322	3	S	17.68	18.22	LD104322	0
LM067322	4	H	17.05	18.85	LD104322	0
LM068322	1	S	20.40	21.24	LD104322	1
LM068322	2	H	19.78	22.30	LD104322	1
LM068322	3	S	18.86	19.44	LD104322	0
LM068322	4	H	18.19	20.11	LD104322	0
LM069322	1	S	14.75	15.36	LD104322	1
LM069322	2	H	14.30	16.12	LD104322	1
LM069322	3	S	17.43	17.97	LD104322	0
LM069322	4	H	16.82	18.59	LD104322	0
LM070322	1	S	14.46	15.05	LD104322	1
LM070322	2	H	14.01	15.80	LD104322	1
LM070322	3	S	17.88	18.42	LD104322	0
LM070322	4	H	17.24	19.06	LD104322	0
LM071322	1	S	9.17	9.54	LD104322	1
LM071322	2	H	8.89	10.02	LD104322	1
LM071322	3	S	26.4	27.2	LD104322	0
LM071322	4	H	25.46	28.14	LD104322	0
LM072322	1	S	9.81	10.21	LD104322	1
LM072322	2	H	9.51	10.72	LD104322	1
LM072322	3	S	25.89	26.67	LD104322	0
LM072322	4	H	24.97	27.59	LD104322	0
LM073322	1	S	11.01	11.46	LD104322	1

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LM073322	2	H	10.67	12.03	LD104322	1
LM073322	3	S	26.9	27.72	LD104322	0
LM073322	4	H	25.94	28.68	LD104322	0
LM074322	1	S	9.39	9.77	LD104322	1
LM074322	2	H	9.10	10.26	LD104322	1
LM074322	3	S	27.28	28.12	LD104322	0
LM074322	4	H	26.32	29.09	LD104322	0
LM075322	1	S	9.51	9.90	LD105322	1
LM075322	2	H	9.22	10.39	LD105322	1
LM075322	3	S	16.82	17.34	LD105322	0
LM075322	4	H	16.23	17.93	LD105322	0
LM076322	1	S	9.04	9.40	LD105322	1
LM076322	2	H	8.76	9.87	LD105322	1
LM076322	3	S	16.54	17.04	LD105322	0
LM076322	4	H	15.95	17.63	LD105322	0
LM077322	1	S	8.95	9.31	LD105322	1
LM077322	2	H	8.67	9.78	LD105322	1
LM077322	3	S	16.69	17.19	LD105322	0
LM077322	4	H	16.09	17.79	LD105322	0
LM078322	1	S	10.29	10.70	LD105322	1
LM078322	2	H	9.97	11.24	LD105322	1
LM078322	3	S	16.34	16.84	LD105322	0
LM078322	4	H	15.76	17.42	LD105322	0
LM079322	1	S	18.34	19.09	LD105322	1
LM079322	2	H	17.78	20.04	LD105322	1
LM079322	3	S	19.45	20.05	LD105322	0
LM079322	4	H	18.76	20.74	LD105322	0
LM080322	1	S	18.49	19.25	LD105322	1
LM080322	2	H	17.93	20.21	LD105322	1
LM080322	3	S	19.49	20.09	LD105322	0
LM080322	4	H	18.8	20.78	LD105322	0
LM081322	1	S	20.20	21.03	LD105322	1
LM081322	2	H	19.58	22.08	LD105322	1
LM081322	3	S	19.3	19.88	LD105322	0
LM081322	4	H	18.61	20.57	LD105322	0
LM082322	1	S	20.30	21.12	LD105322	1
LM082322	2	H	19.67	22.18	LD105322	1
LM082322	3	S	19.57	20.17	LD105322	0
LM082322	4	H	18.88	20.86	LD105322	0
LM083322	1	S	16.78	17.47	LD105322	1
LM083322	2	H	16.27	18.34	LD105322	1
LM083322	3	S	18.72	19.29	LD105322	0
LM083322	4	H	18.05	19.95	LD105322	0
LM084322	1	S	17.55	18.26	LD105322	1
LM084322	2	H	17.01	19.18	LD105322	1
LM084322	3	S	19.49	20.09	LD105322	0
LM084322	4	H	18.8	20.78	LD105322	0
LM085322	1	S	17.93	18.67	LD105322	1
LM085322	2	H	17.39	19.60	LD105322	1
LM085322	3	S	19.47	20.07	LD105322	0
LM085322	4	H	18.78	20.76	LD105322	0
LM086322	1	S	19.59	20.38	LD105322	1

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LM086322	2	H	18.99	21.40	LD105322	1
LM086322	3	S	19.73	20.33	LD105322	0
LM086322	4	H	19.03	21.03	LD105322	0
LM087322	1	S	21.11	21.98	LD106322	1
LM087322	2	H	20.47	23.07	LD106322	1
LM087322	3	S	19.61	20.41	LD106322	0
LM087322	4	H	19.01	21.01	LD106322	0
LM088322	1	S	19.57	20.37	LD106322	1
LM088322	2	H	18.97	21.39	LD106322	1
LM088322	3	S	17.75	18.29	LD106322	0
LM088322	4	H	17.12	18.92	LD106322	0
LM089322	1	S	13.40	13.94	LD106322	1
LM089322	2	H	12.99	14.64	LD106322	1
LM089322	3	S	16.09	16.59	LD106322	0
LM089322	4	H	15.52	17.16	LD106322	0
LM090322	1	S	14.24	14.83	LD106322	1
LM090322	2	H	13.81	15.57	LD106322	1
LM090322	3	S	17.64	18.18	LD106322	0
LM090322	4	H	17.01	18.81	LD106322	0
LM091322	1	S	10.66	11.09	LD106322	1
LM091322	2	H	10.33	11.65	LD106322	1
LM091322	3	S	26.63	27.45	LD106322	0
LM091322	4	H	25.69	28.39	LD106322	0
LM092322	1	S	7.99	8.31	LD106322	1
LM092322	2	H	7.74	8.73	LD106322	1
LM092322	3	S	26.15	26.95	LD106322	0
LM092322	4	H	25.22	27.88	LD106322	0
LM093322	1	S	10.28	10.69	LD106322	1
LM093322	2	H	9.96	11.23	LD106322	1
LM093322	3	S	26.43	27.23	LD106322	0
LM093322	4	H	25.49	28.17	LD106322	0
LM094322	1	S	13.21	13.74	LD106322	1
LM094322	2	H	12.80	14.43	LD106322	1
LM094322	3	S	26.02	26.82	LD106322	0
LM094322	4	H	25.1	27.74	LD106322	0

### 3.4 NCR LFI-0025: CHANGES IN TM(1,2)

Tables affected: pid.dat, pcf.dat, plf.dat

The following new error condition packets have been defined :

- 0039: TC\_1\_2 Invalid Blanking time DAE
- 003B: TC\_1\_2 Science stats timeout

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- 003C: TC\_1\_2 Invalid detector
- 0080: TC\_1\_2 Invalid Set Blanking time
- 0081: C\_1\_2 Invalid N Start det
- 0090: TC\_1\_2 Calib Switch timeout  
NOTE: this packet has SPID 120220340 because 120144340 has already been used.
- 00E0: TC\_1\_2 Invalid Step Action

and the following parameter has changed definition:

- 0024: TC\_1\_2 Invalid check period

Consequently the following lines have been added/modified in the pid.dat table:

PID_TYPE	PID_STYPE	PID_APID	PID_P11_VAL	PID_P12_VAL	PID_SPID	PID_DESCR
1	2	1536	36	0	120036340	TC_1_2 Invalid check period
1	2	1536	57	0	120057340	TC_1_2 Invalid Blanking time DAE
1	2	1536	59	0	120059340	TC_1_2 Science stats timeout
1	2	1536	60	0	120060340	TC_1_2 Invalid detector
1	2	1536	128	0	120128340	TC_1_2 Invalid Set Blanking time
1	2	1536	129	0	120129340	TC_1_2 Invalid N Start det
1	2	1536	144	0	120220340	TC_1_2 Calib Switch timeout
1	2	1536	224	0	120224340	TC_1_2 Invalid Step Action

and the corresponding short names have been added to the tpcf.dat table:

TPCF_SPID	TPCF_NAME
120057340	TC_1_2 0039
120059340	TC_1_2 003B
120060340	TC_1_2 003C
120128340	TC_1_2 0080
120129340	TC_1_2 0081
120220340	TC_1_2 0090
120224340	TC_1_2 00E0

And the following parameters have been added/modified in the pcf.dat table:

PCF_NAME	PCF_DESCR	PCF_PTC	PCF_PFC	PCF_CATEG	PCF_NATUR	PCF_VALPAR
LMA29340	TC_1_2 Invalid check period	3	12	N	R	1
LMAB1340	TC_1_2 0039 Err	2	16	N	R	1





LMA73340	TC_1_2 0039	3	12	N	R	1
LMAB2340	TC_1_2 003C Err	2	16	N	R	1
LMA74340	TC_1_2 003C	3	12	N	R	1
LMAB3340	TC_1_2 0080 Err	2	16	N	R	1
LMA75340	TC_1_2 0080	3	12	N	R	1
LMAB4340	TC_1_2 0081 Err	2	16	N	R	1
LMA76340	TC_1_2 0081_1	3	12	N	R	1
LMA77340	TC_1_2 0081_2	3	12	N	R	1
LMAB5340	TC_1_2 00E0 Err	2	16	N	R	1
LMA78340	TC_1_2 00E0_1	3	12	N	R	1
LMA79340	TC_1_2 00E0_2	3	12	N	R	1
LMAB6340	TC_1_2 003F Err	2	16	N	R	1
LMA80340	TC_1_2 003F	3	14	N	R	1
LMAB7340	TC_1_2 0049 Err	2	16	N	R	1
LMA81340	TC_1_2 0049	3	14	N	R	1
LMAB8340	TC_1_2 009F Err	2	16	N	R	1
LMA82340	TC_1_2 009F	3	14	N	R	1

And consequently the following rows have been added/modified in the plf.dat table:

PLF_NAME	PLF_SPID	PLF_OFFBY	PLF_OFFBI
LMA29340	120036340	24	0
LMA29340	120057340	20	0
LMA73340	120057340	24	0
LMAB2340	120060340	20	0
LMA7434	120060340	24	0
LMAB3340	120128340	20	0
LMA75340	120128340	24	0
LMAB4340	120129340	20	0
LMA76340	120129340	22	0
LMA77340	120129340	24	0
LMAB5340	120224340	20	0
LMA78340	120224340	22	0
LMA79340	120224340	24	0
LMAB6340	120063340	20	0
LMA80340	120063340	22	0
LMAB7340	120073340	20	0
LMA81340	120073340	22	0
LMAB8340	120159340	20	0

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LMA82340	120159340	22	0
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### 3.5 NCR LFI-0026: CHANGES IN TM(1,8)

Tables affected: pid.dat, pcf.dat, plf.dat.

The following new error condition packets have been defined:

- 0039: TC\_1\_8 Invalid Blanking time DAE
- 003B: TC\_1\_8 Science stats timeout
- 003C: TC\_1\_8 Invalid detector
- 0080: TC\_1\_8 Invalid Set Blanking time
- 0081: TC\_1\_8 Invalid N Start det
- 0090: TC\_1\_8 Calib Switch timeout
- 00E0: TC\_1\_8 Invalid Step Action

and the following parameter has changed definition:

- 0024: TC\_1\_8 Invalid check period

Consequently the following lines have been added/modified in the pid.dat table:

PID_TYPE	PID_STYPE	PID_APID	PID_PI1_VAL	PID_PI2_VAL	PID_SPID	PID_DESCR
1	8	1536	36	0	128036340	TC_1_8 Invalid check period
1	8	1536	57	0	128057340	TC_1_8 Invalid Blanking time DAE
1	8	1536	59	0	128059340	TC_1_8 Science stats timeout
1	8	1536	60	0	128060340	TC_1_8 Invalid detector
1	8	1536	128	0	128128340	TC_1_8 Invalid Set Blanking time
1	8	1536	129	0	128129340	TC_1_8 Invalid N Start det
1	8	1536	144	0	128220340	TC_1_8 Calib Switch timeout
1	8	1536	224	0	128224340	TC_1_8 Invalid Step Action

and the corresponding short names have been added to the tpcf.dat table:

TPCF_SPID	TPCF_NAME
128057340	TC_1_8 0039
128059340	TC_1_8 003B



128060340	TC_1_8 003C
128128340	TC_1_8 0080
128129340	TC_1_8 0081
128220340	TC_1_8 0090
128224340	TC_1_8 00E0

And the following parameters have been added/modified in the pcf.dat table:

PCF_NAME	PCF_DESCR	PCF_PTC	PCF_PFC	PCF_CATEG	PCF_NATUR	PCF_VALPAR
LME29340	TC_1_8 Invalid check period	3	12	N	R	1
LMEB1340	TC_1_8 0039 Err	2	16	N	R	1
LME73340	TC_1_8 0039	3	12	N	R	1
LMEB2340	TC_1_8 003C Err	2	16	N	R	1
LME74340	TC_1_8 003C	3	12	N	R	1
LMEB3340	TC_1_8 0080 Err	2	16	N	R	1
LME75340	TC_1_8 0080	3	12	N	R	1
LMEB4340	TC_1_8 0081 Err	2	16	N	R	1
LME76340	TC_1_8 0081_1	3	12	N	R	1
LME77340	TC_1_8 0081_2	3	12	N	R	1
LMEB5340	TC_1_8 00E0 Err	2	16	N	R	1
LME78340	TC_1_8 00E0_1	3	12	N	R	1
LME79340	TC_1_8 00E0_2	3	12	N	R	1
LMEB6340	TC_1_2 003F Err	2	16	N	R	1
LME80340	TC_1_2 003F	3	14	N	R	1
LMEB7340	TC_1_2 0049 Err	2	16	N	R	1
LME81340	TC_1_2 0049	3	14	N	R	1
LMEB8340	TC_1_2 009F Err	2	16	N	R	1
LME82340	TC_1_2 009F	3	14	N	R	1

And consequently the following rows have been added/modified in the plf.dat table:

PLF_NAME	PLF_SPID	PLF_OFFBY	PLF_OFFBI
LME29340	128036340	24	0
LMAB1340	128057340	20	0
LME73340	128057340	24	0
LMEB2340	128060340	20	0
LME74340	128060340	24	0
LMEB3340	128128340	20	0
LME75340	128128340	24	0
LMEB4340	128129340	20	0



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LME76340	128129340	22	0
LME77340	128129340	24	0
LMEB5340	128224340	20	0
LME78340	128224340	22	0
LME79340	128224340	24	0
LMAB6340	120063340	20	0
LMA80340	120063340	22	0
LMAB7340	120073340	20	0
LMA81340	120073340	22	0
LMAB8340	120159340	20	0
LMA82340	120159340	22	0



## 4 VALIDATION OF THE CHANGES TO PREVIOUS VERSION

The LFI Database version 4.5.0 was validated, before the release, internally at the LFI DPC.



## 5 DIFFERENCES BETWEEN HPSDB AND CCS DATABASE

None in the LFI FM DB up to now.



## 6 DIFFERENCES BETWEEN STAND ALONE TESTING AND CCS DATABASE

None up to now.



## 7 ACKNOWLEDGEMENT

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