

CHAPTER 3

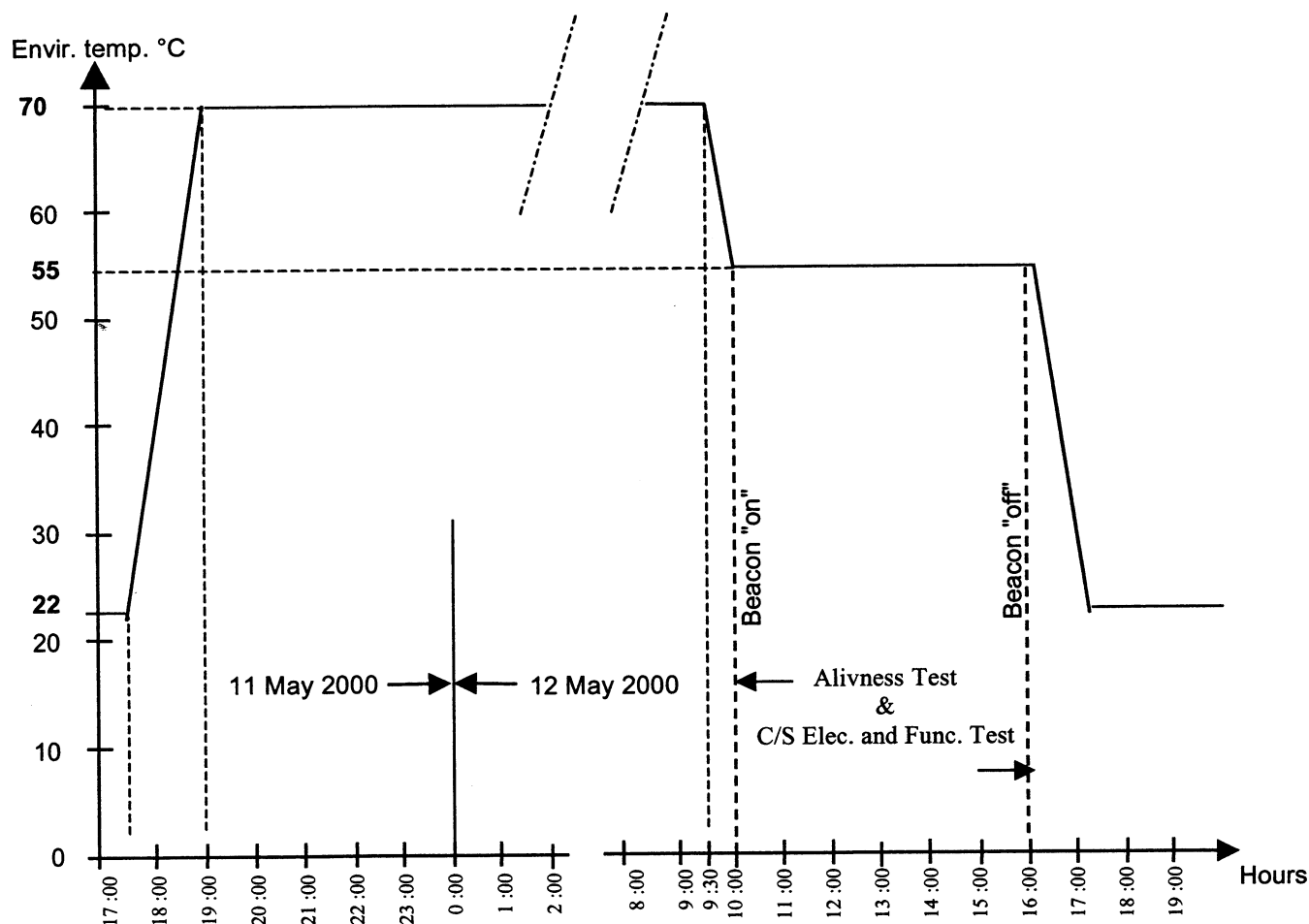
A3.0 - DRY HEAT CYCLE TEST

3.1 PROCEDURE

The parameters defined in appendix A 3.0 of the RTCM document have been measured using a SARSAT Test Bench .

We have used also Intespace Radiobeacon Test Procedure N° 553/AP/QA/f : Essai de Chaleur Sèche

3.2 DRY HEAT CYCLE PROGRAMME



2.3. ALIVENESS TEST RESULTS

The summary of results are reported on next page,
and Electrical & Functional Cospas Sarsat Test at 55 °C results (data and graphs) are reported on Chapter 12

CERTIFICATION CENTER MEASUREMENTS
DRY HEAT ALIVENESS TEST RESULTS

E UT : 2/2
 Name : JOTRON
 Type : TRON 40GPS
 Number : 7001
 Date : 12 May 2000

406 MHZ MEASUREMENTS

1 – Environmental Temperature (° C)			56.2 ° C
2 – POWER OUTPUT			
- Transmission power	dBm	37 ± 2	37.4
- Power risetime	ms	< 5	0.44 ms
- Power falltime	ms	< 5	0.46 ms
3 – SPURIOUS OUTPUT			
- In band	*		OK
- Carrier harmonics	*		
4 –DIGITAL MESSAGE GENERATOR			
- Repetition rate	*		OK
- Bit rate	bits/S	400 ± 4	398.64
- Transmission time	ms	440 ± 4.4 / 520 ± 5.2	521.94
- CW preamble	ms	160 ± 1.6	160.27
5 – DIGITAL MESSAGE			
- Bit and frame sync	bits	1-24	FFFE2F
- Format flag	bit	25	1
- Protocol flag	bit	26	0
- Country code	bits	27-36	0257
- Protocol	bits	37-40	1110
- Encoded Position Data Source	bits	111	1
- Homing	bits	112	1
- BCH 1 code read / calculated	bits	86-106 / 25-85	105685 / 105685
- BCH 2 code read / calculated	bits	133-144 / 107-132	66C / 66C
6 – FREQUENCY			
- Nominal value	KHz	406 025 ± 2	→ 0.06107
- Short term stability		< 2x10 ⁻⁹ /100 ms	1.24 x 10 ⁻¹⁰

* See graphs on chapter 12 : C/S Type Approval Test Report – Electrical and Functional Test at Hot Temperature