

## INTERNATIONAL CIVIL AVIATION ORGANIZATION

#### WESTERN AND CENTRAL AFRICA OFFICE

#### Ninth Meeting of the CAFSAT NetworkManagement Committee (CNMC/9) Luanda, Angola, 3-4 June 2019

Agenda Item 2: Review the performance of CAFSAT earth stations and the operational statistics of availability for supported links

# PERFORMANCE OF CAFSAT LISBON AND SANTA MARIA STATIONS.

(Presented by Portugal)

## SUMMARY

This Working Paper reports the performance of Lisbon and Santa Maria CAFSAT components MTBF and MTTR for levels 1, 2 and 3

**Reference: CNMC/8 – Conclusion 8/05** 

## 1. INTRODUCTION:

In Portugal there are two CAFSAT stations to support the AFS (AFTN and ATS/DS), AMS, Radar data and OLDI communication as follows:

Lisbon station:

AFTN - 1 circuit with Santa Maria ATS/DS - 2 circuits with Santa Maria AMS - 1 circuit with Casablanca (Agadir) OLDI - 1circuit with Casablanca (Agadir) Radar data - 2 circuits with Casablanca (Agadir)

Lisbon station has 3 links: Casablanca (Agadir), Canary (not operational yet) and Santa Maria.

Santa Maria station:

AFTN - 1 circuit with Lisbon and 1 circuit with Sal. ATS/DS - 2 circuits with Lisbon, 1 circuit with Sal and 1 circuit with Canary. OLDI - 1 circuit with Sal and 1 circuit with Canary.

Santa Maria station has 3 links: Canary, Lisbon and Sal.

This Working Paper reports the performance (MTBF and MTTR) of both stations during 2018.



## 2. DISCUSSION

The MTBF and MTTR values of Lisbon and Santa Maria during 2018 are:

Lisbon link	MTBF (H)			MTTR (H)			
with:	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3	
Casablanca	$\geq 8760$	$\geq 8760$	$\geq 8760$	$\leq 0.5$	$\leq 0.5$	$\leq 0.5$	
Canary	$\geq 8760$	$\geq 8760$	$\geq 8760$	$\leq 0.5$	$\leq 0.5$	$\leq 0.5$	
Santa	$\geq 8760$	$\geq 8760$	$\geq 8760$	$\leq 0.5$	$\leq 0.5$	$\leq 0.5$	
Maria							

Santa	MTBF (H)			MTTR (H)		
Maria link	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3
with:						
Canary	8760	8760	973	.1	.65	1.24
Lisbon	$\geq 8760$	$\geq 8760$	$\geq 8760$	$\leq 0.5$	$\leq 0.5$	$\leq 0.5$
Sal	8760	2190	1251	.1	1.58	.63

Notes: Level 1 - Outdoor equipment (BUC and LNB) and space segment.

Level 2 – Indoor equipment (Modems).

Level 3 – Base band equipment (multiplexers, swicht and interface units).

Above mentioned values are good and proves that CAFSAT network is a very positive contribution to the aeronautical communications in this area.

# 3. ACTION BY THE MEETING:

The meeting is invited to note the information of this WP.

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