



International Civil Aviation Organization

Sixth Meeting of CNS/MET Sub-Group of APANPIRG

Bangkok, Thailand 15-19 July 2002

Agenda Item 2: Aeronautical Fixed Service (AFS) communications

AFTN CIRCUIT LOADING STATISTICS OF COLOMBO (VCCC)

(Prepared by Sri Lanka)

This paper presents the current AFTN circuit loading statistics of Main Aeronautical Communication Centre – Colombo. **According to this loading of statistics there is an urgent need to take into account the loading conditions and consider immediate action for upgrading the speed of international AFTN SAT circuits. In this connection we have already embarked on upgrading of AFTN circuit with Mumbai.**

1. Summary of the Statistics

- 1.1 AFTN circuit loading statistics were investigated in the first half of this year (2002). Colombo/Singapore, Colombo/Mumbai & Colombo/Male both input & output SAT Circuits indicated the continuing overloading conditions and the need for immediate action for upgrading **Singapore, Mumbai** and **Male** circuits to cater for the already identified relatively high loading conditions.
- 1.2 The details of the circuit loadings are provided in the attachment.

2. Action taken

- 2.1 As per fifth meeting of CNS/MET Sub Group of APANPIRG held in Bangkok on 16th –20th July 2001 negotiations were carried out between Sri Lanka and Indian Aeronautical Authorities to increase capacity of **Colombo/Mumbai & Mumbai/Colombo** SAT Circuits to **6400bps, on X.25** protocol before 31st of July 2002.
- 2.2 1st round of test between VCCC & VABB were conducted on 28th June 2002 and results were unsuccessful.
- 2.3 Loop Tests between VCCC and VSNL – ITMC Mumbai only have been successful sofar.
- 2.4 Action is being taken to commence the 2nd round of test a shortly.
- 2.5 Awaiting communication from Singapore and Male authorities.

3. Task Status

- 3.1 Colombo AMSS system can be configured to handle high data rates on **X.25** protocol.
- 3.2 National circuits are already operating on 1200bps.

Attachment to CNS/MET/SG/6-WP/40
AFTN Centre Sri Lanka Circuits Loading Statistics

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Transmitting Station **Singapore**
Receiving Station Colombo
Modulating Rate 75bps
Number of Channels One
Average Loading **53.2%**

Transmitting Station **Colombo**
Receiving Station Singapore
Modulating Rate 75bps
Number of Channels One
Average Loading **14.3%**

Month	Input			Output		
	Total No.of messages	Peak loading percent hourly	Loading percent monthly	Total No.of messages	Peak loading percent hourly	Loading percent monthly
January	32,844	55%	91%	12,182	17%	11%
February	10,917	53%	91%	10,917	15%	11%
March	33,088	54%	92%	11,994	14%	10%
April	28,682	50%	86%	10,735	14%	10%
May	32,896	55%	89%	14,113	14%	19%
June	29,257	52%	100%	10,539	12%	10%

Transmitting Station **Mumbai**
Receiving Station Colombo
Modulating Rate 50bps
Number of Channels One
Average Loading **45.5%**

Transmitting Station **Colombo**
Receiving Station Mumbai
Modulating Rate 50bps
Number of Channels One
Average Loading **19.8%**

Month	Input			Output		
	Total No.of messages	Peak loading percent hourly	Loading percent monthly	Total No.of messages	Peak loading percent hourly	Loading percent monthly
January	13,297	49%	22%	10,459	19%	14%
February	8,501	44%	20%	8,501	17%	13%
March	12,244	45%	21%	9,596	19%	12%
April	12,274	45%	21%	8,688	19%	12%
May	15,132	51%	26%	11,433	24%	18%
June	11,940	39%	20%	10,081	21%	14%

Transmitting Station **Male**
Receiving Station Colombo
Modulating Rate 50bps
Number of Channels One
Average Loading **9.5%**

Transmitting Station **Colombo**
Receiving Station Male
Modulating Rate 50bps
Number of Channels One
Average Loading **69.5%**

Month	Input			Output		
	Total No.of messages	Peak loading percent hourly	Loading percent monthly	Total No.of messages	Peak loading percent hourly	Loading percent monthly
January	4,460	9%	5%	15,644	69%	34%
February	4,102	9%	4%	13,702	63%	31%
March	4,554	12%	6%	15,580	68%	32%
April	4,509	11%	6%	15,020	69%	33%
May	4,326	9%	5%	15,120	74%	32%
June	4,227	7%	5%	14,169	74%	30%

	Received Messages	Transmitted Messages
January	4460	15644
February	4102	13702
March	4554	15580
April	4509	15020
May	4326	15120
June	4227	14169

AFTN Data Exchange between Colombo / Male

