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المدني الدولي

国际民用
航空组织

Ref.: T 3/10.0, T3/8.13.1: AP019/09 (ATM)

26 January 2009

Subject: FANS Implementation Team for the Bay of Bengal (FIT-BOB) Meeting, Data Link Seminar and Satellite Data Link Operational Continuity Meeting (SOCM) (Bangkok, Thailand, 20 - 21 April and 22 - 24 April 2009)

Action required: To reply by **6 April 2009**

Sir/Madam,

I have the honour to invite your Administration to participate during April 2009 in the meetings of the FANS Implementation Team for the Bay of Bengal, who will be conducting a two-day Data Link Seminar, and the three-day Satellite Data Link Operational Continuity Meeting which was deferred from early December 2008.

The Eleventh Meeting of the FANS Implementation Team for the Bay of Bengal and Data Link Seminar (FIT-BOB/11 & Seminar) will be held on Monday and Tuesday the 20th and 21st of April 2009, followed by the Satellite Data Link Operational Continuity Meeting (SOCM) from Wednesday, 22nd April through Friday, 24th April 2009. These events will be held at the ICAO Asia and Pacific Regional Office in Bangkok, Thailand.

The FIT-BOB/11 meeting will be conducted predominantly in Seminar format, with formal FIT-BOB meeting activities kept to a minimum in order to maximize the training benefit of the Seminar. Recognizing that issues related to implementation and operation of ADS and CPDLC services apply to all airspaces where data link services will be provided, the FANS data link seminar activities will be widely relevant in terms of regional en-route PBN implementation. The seminar will be structured to cover technical, operational and safety aspects of operating ADS-C and CPDLC in an ATC environment where reduced horizontal separations are being applied. Specific focus will be applied to 'airborne' and 'ground' issues respectively with appropriate use of workshop sessions to enable detailed discussion on pilot and ATC operational issues.

The SOCM meeting will review the performance and provision of Satellite data link communications in the Asia and Pacific Regions. In this context, I draw your attention to the discussions that took place in the Nineteenth Meeting of APANPIRG (September 2008) regarding the technical and funding issues associated with the satellite data-link service provision and the consequential negative operational impact on the rapid growth of civil aviation. APANPIRG/19 agreed that the operational problem needs solution and the satellite communication issue should be urgently addressed. In view of the foregoing, APANPIRG/19 adopted the following Conclusion:

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Conclusion 19/24 – Satellite Communications Service Performance

That,

- a) States and International Organizations be requested to liaise with satellite service providers to establish a mechanism to maintain and modernize the satellite communication infrastructure; and
- b) ICAO be invited to organize a meeting by the end 2008 for stakeholders to review the performance and provision of satellite data-link communications in the Asia/Pacific and find a solution.

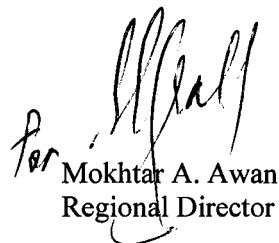
To meet the requirements of b) of the above Conclusion, the Satellite Data-link Operational Continuity Meeting will review the existing and proposed future arrangements for satellite data-link communication in the region. It is anticipated that information in relation to a) of the Conclusion will also be discussed during the meeting. Participants are urged to submit meeting papers addressing these matters.

The provisional agendas for the FIT-BOB/11 Seminar and SOCM meeting are provided at Attachments A and B respectively. The meeting bulletin containing information about the arrangements for the Meetings is provided in Attachment C. Information about hotel accommodation in Bangkok and other useful information can be found on the ICAO website at <http://www.bangkok.icao.int/infr.html>.

I would be grateful, if you could send to this Office at your earliest convenience, and not later than **6 April 2009**, the names(s) of your delegate(s) that will be attending the Meetings. The form for this purpose is in Attachment D.

It would be highly appreciated, wherever possible, that any working/information papers (WP/IPs) reach the Asia/Pacific Regional Office by **6 April 2009**, via email to icao_apac@bangkok.icao.int as an MS Word attachment.

Accept, Sir/Madam, the assurance of my highest consideration.


Per **Mokhtar A. Awan**
Regional Director

Enclosures:

- Attachment A - Provisional FIT-BOB/11 Agenda
- Attachment B - Provisional SOCM Agenda
- Attachment C - Meeting Bulletin
- Attachment D - Registration Form

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA AND PACIFIC OFFICE**

**ELEVENTH MEETING OF THE FANS IMPLEMENTATION TEAM FOR THE BAY OF BENGAL
AND SEMINAR ON FANS DATA LINK APPLICATIONS**

(FIT-BOB/11 & Seminar)

(Bangkok, Thailand, 20 – 21 April 2009)

PROVISIONAL AGENDA / SEMINAR TOPICS

In addition to details of relevant ICAO provisions and regional data link guidance materials, the seminar is expected to provide practical information from experienced data link operators and pilots, air navigation services providers, network system providers and airframe manufactures. The technical background to the work undertaken by a data link Central Reporting Agency (CRA). In this context, seminar presentations will be structured around the following broad topics:

- 1) What is ADS-C, What is CPDLC, What is Data Link
- 2) ADS/CPDLC Operating Procedures & Documentation – FANS Operations Manual (FOM), ICAO Provisions in relation to data link services & ICAO Document References for ADS/CPDLC
- 3) Requirements for ATC Systems with ADS/CPDLC
- 4) Pilot Perspectives of ADS/CPDLC, including Cockpit Practices and Procedures
- 5) Data Network System Provision and Architecture
- 6) Roles and Functions of the FANS Interoperability/Implementation Team (FIT), including Problem Reports and System Performance Analysis
- 7) Data Link Central Reporting Agency – Role, Functions, Outputs
- 8) Safety assessment and monitoring – the Role of the En-route Monitoring Agency (EMA)



International Civil Aviation Organization

**SATELLITE DATA-LINK OPERATIONAL CONTINUITY
MEETING TO REVIEW THE PERFORMANCE AND PROVISION
OF SATELLITE DATA-LINK COMMUNICATIONS IN THE ASIA
AND PACIFIC REGIONS**

(Bangkok, Thailand, 22 – 24 April 2009)

SOCM PROVISIONAL AGENDA

AGENDA ITEM 1: ATC OPERATIONS AND SERVICE PROVISION BACKGROUND

- 1.1 Air Traffic Operations
Data-link uses in Aviation Operational Environment. Discussion of approved operations including Performance Based Navigation standards and communications, navigation, and surveillance requirements for each approved standard.
- 1.2 State Implementation of Data-link Services, Current and Planned
 - i) ISPACG review
 - ii) IPACG review
 - iii) Bay of Bengal
 - iv) South China Sea
- 1.3 Environmental Issues of non use of reduced separation
- 1.4 Business Case and User Perspective
 - i) IATA
 - ii) Boeing
 - iii) Airbus
 - iv) Honeywell
 - v) Rockwell Collins

AGENDA ITEM 2: SATELLITE COMMUNICATIONS INFRASTRUCTURE

- 2.1 Satellite Provider status and plans
 - i) INMARSAT
 - ii) MTSAT
 - iii) IRIDIUM
- 2.2 Ground Communications status and plans
 - i) SITA
 - ii) ARINC

- 2.3 Ground Earth Station Architecture, status and plans
 - i) Stratos
 - ii) Thrane & Thrane
 - iii) Others

AGENDA ITEM 3: FUNDING OVERVIEW

- 3.1 Review of current funding arrangements and agreements
 - i) INMARSAT
 - ii) SITA
 - iii) ARINC
 - iv) Ground Station Providers
 - v) Boeing
- 3.2 ICAO Perspective
- 3.3 FSIT Proposal for system improvement and maintenance

AGENDA ITEM 4: PROPOSED SOLUTION TO INSURE DATA-LINK CONTINUITY
