



*International Civil Aviation Organization*

**The Twelfth Meeting of the FANS Implementation Team, Bay of Bengal (FIT-BOB/12) and the Second Meeting of the Bay of Bengal Reduced Horizontal Separation Implementation Task Force (BOB-RHS/TF/2)**

Bangkok, Thailand, 22– 26 February 2010

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**Agenda Item 7: Preparation of BOB-RHS/TF Task List**

**UPDATE BOB-RHS/TF TASK LIST**

(Presented by the Secretariat)

**SUMMARY**

The Task List for BOB-RHS/TF attached is presented for review and update by the meeting.

**1. INTRODUCTION**

1.1 The BOB-RHS/TF Task List, as developed during the BOB-RHS/TF/1 Meeting (Bangkok, 2 – 6 November 2009) is included as an attachment to this paper.

**2. DISCUSSION**

2.1 The meeting is advised that the initial draft list of tasks required to be completed are categorized under major headings mentioned as follows:

- a) Identify Operational Need;
- b) Safety assessment;
- c) Feasibility Analysis;
- d) Determination of Requirements (airborne and ground systems);
- e) Aircraft and Operator Approval Requirements;
- f) Perform Rulemaking (if required);
- g) Perform Necessary Industry and International Co-ordination;
- h) Approval of Aircraft and Operators;
- i) Develop ATC procedures;
- j) ATC training;
- k) Complete Safety Assessment;
- l) Final Implementation Decision; and finally after implementation,
- m) Post Implementation review.

2.2 The meeting should note that, from a route structure point of view, there is very little change required, as the lateral separation between most of the routes was established by the EMARSSH project in 2002, although there has been some further ATS route enhancements during the ATFM/BOBCAT programme..

2.3 Taking into account that agreement has been reached on commencing the implementation of 50 NM longitudinal separation initially on one ATS route N571 by January 2011, which involves the FIRs of Kuala Lumpur, Chennai and Mumbai, the meeting is invited to prioritize the task list and the subjects listed to achieve the planned implementation target date in the first instance while still working forward on other items to ensure all ATS routes and FIRs involved are ready for full implementation of 50 NM longitudinal separation in the areas under consideration.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to review and update the BOB-RHS/TF Task List as presented in the attachment.

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## TASK LIST

SN	Activity	Start	Complete	Present Status	Group Responsible
	<b>Identify Operational Need</b>				
1	Agree that an operational needs for a 50 NM horizontal separation in the Bay of Bengal and Oceanic Area of the Mumbai FIR	BOB-RHS/TF/1	Yes		All delegates at the BOB-RHS/TF/1
2					
	<b>Safety Assessment</b>				
3	Appointment of a Bay of Bengal and Mumbai Enroute Monitoring Agency	BOB-RHS/TF/1		India will notify ICAO regarding responsibility to operate the BOB/Mumbai EMA	India
4	Recognizing the necessity for an EMA for Bay of Bengal and the Mumbai FIR before the implementation of 50NM longitudinal separation in the areas concerned, provide an update from India on the establishment of an EMA to provide safety assessments and monitoring requirements	BOB-RHS/TF/2			
5	States to continue to collect and provide traffic data	BOB-RHS/TF/1	Ongoing		
6	States to provide additional data as required by the EMA	BOB-RHS/TF/1	Ongoing		
7	<b>Bench Testing</b> Boeing review of operations based on simulator testing	BOB-RHS/TF/1	Ongoing		
8	Examine history of navigational errors and assess possible impact on safety	BOB-RHS/TF/1	Ongoing		
9	Confirm collision risk model assumptions/parameters are consistent with airspace where the 50 NM horizontal separation is to be applied	BOB-RHS/TF/1	Ongoing		
10	Conduct simulations to predict occupancy after the 50 NM horizontal separation implementation	BOB-RHS/TF/1	Ongoing		
11	Collect weather and turbulence data for analysis				
12	Provide data collection to AEROTHAI for analysis of all the route effected in the project and also for Safety Assessment and Monitoring Analysis	BOB-RHS/TF/1	Ongoing		
13	Report monthly navigational errors (including operational errors) to Monitoring Authority (India)		Ongoing		
14	Collect additional data if required by the Safety Assessment Expert for the safety assessment for the 50 NM horizontal separation implementation	BOB-RHS/TF			
	<b>Feasibility Analysis</b>				
15	Examine the operational factors and workload associated with the 50 NM horizontal separation implementation in BOB/Mumbai FIR	BOB-RHS/TF			

## TASK LIST

SN	Activity	Start	Complete	Present Status	Group Responsible
16	Complete feasibility analysis on the 50NM horizontal separation implementation on N571	BOB-RHS/TF			
<b>Determination of Requirements (airborne &amp; ground systems)</b>					
17	States assess the impact of the 50 NM horizontal separation implementation on controller automation systems and plan for upgrades/modifications	BOB-RHS/TF/1			
<b>Aircraft &amp; Operator Approval Requirements</b>					
18	Promulgate the operational approval process of RNP 10	BOB-RHS/TF			
<b>Perform Rulemaking (if required)</b>					
19	Recommend State airspace regulatory documentation	BOB-RHS/TF			
<b>Perform Necessary Industry &amp; International Co-ordination</b>					
20	Establish target implementation date on the 50NM horizontal separation on N571	BOB-RHS/TF/2			
21	Report to BBACG	BOB-RHS/TF/1			
22	Malaysia to coordinate with Boeing Lab for bench testing for Kuala Lumpur ADS/CPDLC system	BOB-RHS/TF/1			
23	Malaysia to report the status and updates on Kuala Lumpur FIR ADS/CPDLC system and personnel training programme	BOB-RHS/TF/1			
24	Malaysia to continue submitting ADS/CPDLC data collection and problem report to Boeing Lab	BOB-RHS/TF/1			
25	Prepare draft amendment proposal to amend Doc 7030	BOB-RHS/TF			
26	Submit draft amendment proposal to amend Doc 7030 to ICAO				
27	Assess need to publish AIP Amendment/Supplement, if necessary, containing the 50 NM horizontal separation policy/procedures	BOB-RHS/TF/2			
28	Assess need for NOTAM	BOB-RHS/TF/2			
29	Review inter-facility coordination procedures				
30	Finalize changes to Letters of Agreement				
<b>Approval of Aircraft &amp; Operators</b>					
31	Establish approved operations readiness targets	BOB-RHS/TF/2			

TASK LIST

SN	Activity	Start	Complete	Present Status	Group Responsible
32	Assess operator readiness	BOB- RHS/TF/2			
	<b>Develop ATC Procedures</b>				
33	Develop procedures for handling non-compliant aircraft in ATS documentation				
	<b>ATC Training</b>				
34	Complete training for air traffic controllers on the application of 50 NM horizontal separation				
	<b>Complete Safety Assessment</b>				
35	Review and accept safety assessment				
	<b>Final Implementation Decision</b>				
36	Go/No-Go Decision				
37	Implementation				
	<b>Post Implementation Review</b>				
38					
39					