



ICAO

International Civil Aviation Organization
Asia and Pacific Office

Thirteenth Meeting of the Regional Aviation Safety Group – Asia and Pacific Regions (RASG-APAC/13)

Hong Kong, China, 18-19 December 2023

Agenda Item 3: Update from ICAO HQ, APRAST and AIG outputs for RASG-APAC consideration and approval

UPDATE ON WORK DONE BY APAC-AIG

(Presented by Chairman of APAC-AIG)

SUMMARY

This paper updates the meeting on the activities of the Asia Pacific Accident Investigation Group (APAC-AIG) since APAC-AIG/11 held 16-17 August 2023.

1. INTRODUCTION

1.1 This working paper updates the meeting on the activities of the Asia Pacific Accident Investigation Group (APAC-AIG) since APAC-AIG/11, which was held in Singapore from 16-17 August 2023 preceded by a Workshop on 15 August 2023 on the theme *Human Factors Considerations in Aviation Accident and Incident Investigations*.

2. DISCUSSION

2.1 On 15 August 2023, one day prior to the APAC-AIG/11 Meeting, there was ICAO APAC Regional Accident Investigation Workshop on the theme *Human Factors Considerations in Aviation Accident and Incident Investigations* which was attended by 60 participants. The workshop generated deep discussions and all participants appreciated the efforts from the presenters for the sharing of experiences and urged for more similar activities in future APAC-AIG Meetings on the following subjects.

Human factors models and principles of human factors relevant to accident investigation	Dr. Stuart Godley & Dr. Michael Walker, ATSB
Applying the SHELL model to accident investigations - Hide and Seek ... the game humans continue to play in aviation.	Captain Steven Khoo, TSIB
Conducting interviews using the best practice principles of Cognitive interviewing	Dr. Stuart Godley, ATSB
ATSB human factors investigation case study – ditching at Norfolk island	Dr. Michael Walker, ATSB

2.2 The APAC-AIG/11 adopted 10 Decisions, progress of which are shown in **Attachment A**. AIG/11 adopted an important Decision AIG 11/2 to form an **AIG Expert Group (AIG-EG)** as a Working Group under AIG Sub-Group because the tasks used to be performed and summarized by the AIG Chairs only. There are many new tasks arising from the Asia Pacific regional Aviation Safety plan (AP-RASP) 2023-25 related to AIG which are also captured in the AIG Yearly Program of 2023-2-24 that needs detailed action plan by experts. Hence, the initial Terms of References (ToR) for AIG-EG are inserted in the 3rd edition of RASG-APAC Procedure Handbook which will be tabled with other Sub-Group ToR amendments through WP/12 in this meeting.

2.3 The AIG Yearly Work Program contains 07 tasks where Leads and Volunteers are identified for each task and one virtual meeting is already organized to set the next course of action. The AIG Yearly Work Program 2023-2024 is attached in **Attachment B** to this paper.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) Note the activities of the APAC-AIG; and
- b) Request RASG-APAC to approve the AIG Expert Group (AIG-EG) as introduced in AIG/11 through Decision APAC-AIG 11/2 and related ToRs in RASG-APAC Procedure Handbook.

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List of Updated APAC-AIG/11 Decisions and Conclusions

Conclusion/ Decision No ---	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status	Action by RO/HQ/ANC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Decision APAC-AIG 11/1 –	Review of the Decisions and Conclusion by RASG-APAC and APRAST – Secretariat	That, APAC RO to circulate RASG-APAC Procedural Handbook draft TORs of APAC-AIG to the AIG Focal points of States/Administrations for review and amendments, if necessary.	APAC RO APAC-AIG Chairs	Action in accordance with the Decisions.	By 15 October 2023	1) APAC RO finalized the draft TORS by end November 2023 of various WG and Sub-Groups. Then circulated RASG-APAC Procedural Handbook draft TORs to APAC-AIG Chairs for feedback by 14 December 2023. 2) Collected the feedback and revised the TORs by 15 December 2023 and tabled to RASG-APAC/13 as WP-12. Action: In progress	RO
Decision APAC-AIG 11/2 –	Update on APAC-AIG activities – Secretariat	That, APAC-AIG Chairs shall form an AIG Expert Group from the representations of States/Administrations to carry out the tasks of APAC-AIG following the TOR of RASG-APAC Procedural Handbook which will be tabled for approval of RASG-APAC.	APAC RO APAC-AIG Chairs	Action in accordance with the Decisions.	By November 2023	1) APAC RO circulated SL to seek further nomination for AIG Expert Group (in addition to the on-site nomination list in Appendix B). 2) APAC-AIG Chairs to consolidate the AIG Expert Group, carry out tasks, and report progress. Action: In progress	RO

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status as of August 2023	Action by RO/HQ/ANC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Decision APAC-AIG 11/3 –	Following up the Progress of Implementation of the Decision APAC-AIG 10/1, 10/2 and 10/3 – Secretariat	That, the APAC-AIG Chairs to task the upcoming AIG Expert Group, when established, to review the draft template of Investigation Cooperation Mechanism (ICM) and verify the existing clauses of the APAC-AIG Code of Conduct (CoC) and identify the differences that need to be addressed.	APAC-AIG Chairs	Action in accordance with the Decisions.	December 2023	1) APAC-AIG Chairs to consolidate the AIG Expert Group, carry out tasks, and report progress. Action: In progress	RO
Decision APAC-AIG 11/4 –	ECAC Group of Experts in Aircraft Accident and Incident Investigation Workshop on the Harmonizing on Treatment of Serious Incidents – Singapore	That, APAC RO to coordinate with APAC-AIG Chairs to organise a workshop on the ‘Understanding of classification of serious incidents/incidents for the APAC Regional States/Administrations’.	APAC RO APAC-AIG	Workshop	APAC- AIG/12	1) APAC RO coordinated with APAC-AIG Chairs and planned the Workshop a day before AIG/12. 2) State Letter to be sent as required. Action: In progress	RO

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status as of February 2023	Action by RO/HQ/ANC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Decision APAC-AIG 11/5 –	Determining the effectiveness of Safety Actions Taken – Australia	That, APAC RO to coordinate with ATSB to organize a workshop on ‘Determining the effectiveness of Safety Actions via Risk Assessment’.	APAC RO ATSB	Workshop	APAC- AIG/12	1) APAC RO coordinated with APAC-AIG Chairs and planned the Workshop a day before AIG/12. 2) State Letter to be sent as required. Action: In progress	RO
Decision APAC-AIG 11/6 –	Medical Examination Requirement for Aircraft Maintenance Engineer & Mental Health Issue as Part of the Medical Examination – Indonesia	That, APAC RO shall coordinate with ICAO HQ (PEL SMEs) to clarify whether any medical assessment is required covering the mental health issues for the Aircraft Maintenance Engineers (AMEs) while retaining their AME Licenses under ICAO Annex 1.	APAC RO	Action in accordance with the Decisions.	APAC- AIG/12	1) APAC RO to coordinate with ICAO HQ (PEL SMEs) - TBD 2) APAC RO to report to APAC-AIG/12. Action: In progress	RO HQ

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status as of February 2023	Action by RO/HQ/ANC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Decision APAC-AIG 11/7 –	ATSB Strategic Partnership with RMIT University Offering Qualifications in Transport Safety Investigation - Australia	That, ICAO RO shall coordinate with ATSB to update APAC States/Administrations on the RMIT's Training courses in AIG area and identify how best RMIT efforts can be utilized for building the APAC-AIG training capacity for the region.	APAC RO ATSB	Action in accordance with the Decisions.	APAC-AIG/12	1) APAC RO coordinated with ATSB and ATSB shall inform RMIT to provide the Brochure to be circulated amongst APAC States. Action: In progress	RO
Decision APAC-AIG 11/8 –	Introduction of ICAO Occurrence Validation Study Group - Secretariat	That, the AIG Expert Group, when established, in coordination with ICAO RO to subscribe and participate in the OVSG activities and meetings.	APAC RO APAC-AIG	Action in accordance with the Decisions.	After forming of AIG Expert Group	- APAC RO to coordinate with OVSG subscription of APAC-AIG Chairs and APAC-AIG Focal points including the AIG Expert Group - TBD Action: In progress	RO OVSG

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status as of February 2023	Action by RO/HQ/ANC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Decision APAC-AIG 11/9 –	Updated Contact Information of Accident Investigation Authorities on ICAO's Website - Singapore	That, APAC RO to: a) Disseminate a State Letter to AIAs of States/Administrations to review their contact information on ICAO's portal and send their updated AIA contact information to ICAO AIG section for updating on ICAO's portal; and b) Coordinate with ICAO HQ to include AIA Contact Information database format adding 24/7 contact numbers.	APAC RO	Action in accordance with the Decisions.	Immediately (Imp. Date)	1) State Letter is sent on 15 December 2023 to the States to update with ICAO HQ Portal for 24/7 Emergency Contact to be provided to quickly notify during an accident. 2) APAC RO to coordinate with ICAO HQ to include AIA Contact Information database format adding a menu for 24/7 contact numbers at ; https://www.icao.int/safety/aia/Pages/default.aspx) - TBD Action: In progress	RO ICAO AIG
Decision APAC-AIG 11/10 –	APAC-AIG Standing and Annual Work Programme (WP/18) - Secretariat	That, APAC RO to initiate a State Letter to AIAs of States/Administrations to nominate their competent candidates for the Action Item Groups; A.II.1 by 2025, A.III.1 by 2025, A.III.2 by 2025, A.V.1 by 2025, A.V.2 by 2025, A.V.3 by 2024 and A.V.7 by 2025 strengthening and supporting their work as derived from APAC- AIG Annual Work Programme 2023-2024.	APAC RO APAC-AIG Chairs APAC-AIG Focal Points	Action in accordance with the Decisions.	Immediately (Imp. Date)	1) AIG-EG Lead and Volunteers are already identified for each task. According to the prescription of AIG-EG RO shall remain standby for any State Letter to be issued. Action: In progress	RO

APAC-AIG ANNUAL WORK PROGRAMME 2023-2024

TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-1		AP-RASP ORG RM A.II.1	APAC AIG	A.II.1 Conduct workshops and courses to promote effective implementation of SARPs, especially in the technical areas of ANS, AIG, AGA
<u>STATUS TASK-1:</u>				

TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-2		AP-RASP ORG RM A.III.1	APAC AIG	A.III.1* Support the robust implementation and continuous improvement of SMS and SSP
<u>STATUS TASK-2:</u>				

TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-3		AP-RASP ORG RM A.III.2	APAC AIG	A.III.2 Improve the sharing of best practices in safety management, safety data and analyses among regional platforms including APANPIRG Sub-groups via RASG-APAC
<u>STATUS TASK-3:</u>				
TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-4		AP-RASP ORG RM A.V.1	APAC AIG	A.V.1 Integrate the existing basic building blocks of RASG-APAC/ APRAST towards the envisioned safety data collection and processing system (SDCPS) for the APAC region
<u>STATUS TASK-4:</u>				

TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-5		AP-RASP ORG RM A.V.2	APAC AIG	A.V.2 Enhance the terms of reference (TORs) of various regional bodies using a TOR framework
<u>STATUS TASK-5:</u>				

TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-6		AP-RASP ORG RM A.V.3	APAC AIG	A.V.3 Improve the communication of activities and coordination of schedules among regional bodies and meetings, regional workshops/ courses, e.g. via a one-stop calendar of regional events
<u>STATUS TASK-6:</u>				

RASG-APAC/13–WP/8
Attachment B

TASKS	Decision APAC-AIG	Subject Ref (if any)	Stake Holders	Brief Description
TASK-7		AP-RASP ORG RM A.V.7	APAC AIG	A.V.7 Establish an independent accident and incident investigation authority (AAIIA) as required by Annex 13, as well as related investigation system and procedures
<u>STATUS TASK-7:</u>				

List of Experts Volunteered to Join the AIG Expert Group

SN	Prefix	Name	State/Int'l org	Organization	Email
1	Mr.	Robert Chopin	Australia	ATSB	Rob.Chopin@atsb.gov.au ;
2	Ms.	Krytal Scott	Australia	ATSB	Krystal.scott@atsb.gov.au ;
3	Mr.	Chen Li	China	CAAC	chenli@caac.gov.cn ;
4	Ms.	Aniki Yeung	Hong Kong, China	AAIA	anikiyeung@tlb.gov.hk ;
5	Mr.	Jasbir Singh Larhga	India	AAIB India	jasbir.s.larhga@gov.in ;
6	Mr.	K Ramachandran	India	AAIB India	ram.dgca@nic.in ;
7	Mr.	Nurcahyo Utomo	Indonesia	NTSC	raynurcahyo@gmail.com ;
8	Mr.	Tan Chee Kee	Malaysia	AAIB Malaysia	tanck@mot.gov.my ;
9	Mr.	Khairulnizam Jamaludin	Malaysia	AAIB Malaysia	khairulnizam@mot.gov.my ;
10	Mr.	Prabhakar Chandra Mallik	Nepal	CAA Nepal	prabhakarc.malik@caanepal.gov.np ;
11	Mr.	David Lim	Singapore	TSIB	david_lim@mot.gov.sg ;
12	Mr.	Dou Peng	Int'l org	IATA	doup@iata.org ;
13	Mr.	Felix Chen	Int'l org	IFALPA	felixchensk@gmail.com ;
14	Mr.	Raymond Vai	PNG	AIC	rvai@aic.gov.pg ;
15	Mr.	Emerson Buidal	PNG	AIC	ebuidak@aic.gov.pg ;

List of APAC-AIG EG Volunteers to support AIG Work Programme 2023-2024

TASKS	AP-RASP 2023-25 Action Items / Brief Description	AIG EG Volunteers
TASK-1	A.II.1 Conduct workshops and courses to promote effective implementation of SARPs, especially in the technical areas of ANS, AIG, AGA	1. David Lim (TSIB) (Lead) 2. Ray Nurcahyo (KNKT) 3. Rob Chopin (ATSB) 4. K Ramachandran (AAIB India) 5. Tan Chee Kee (AAIB Malaysia) 6. All senior investigators
TASK-2	A.III.1* Support the robust implementation and continuous improvement of SMS and SSP	1. Ray Nurcahyo (KNKT) (Lead) 2. Prabhakar Chandra Mallik (CAAN) 3. Khairulnizam Jamaludin (AAIB Malaysia)
TASK-3	A.III.2 Improve the sharing of best practices in safety management, safety data and analyses among regional platforms including APANPIRG Sub- groups via RASG-APAC	1. Peng Dou (IATA) (Lead) 2. Felix Chen (IFALPA) 3. Mitch Fox (FSF) (TBC)
Task-4	A.V.1 Integrate the existing basic building blocks of RASG-APAC/ APRAST towards the envisioned safety data collection and processing system (SDCPS) for the APAC region	1. Stuart Godley (ATSB) (Lead) 2. Peng Dou (IATA)
TASK-5	A.V.2 Enhance the terms of reference (TORs) of various regional bodies using a TOR framework.	1. Stuart Godley (ATSB) (Lead) 2. Chong, Chow Wah (TSIB)
APAC-AIG 11/2	That, APAC-AIG Chairs shall form an AIG Expert Group from the representations of	

	States/Administrations to carry out the tasks of APAC-AIG following the TOR of RASG-APAC Procedural Handbook which will be tabled for approval of RASG-APAC.	
TASK-6	A.V.3 Improve the communication of activities and coordination of schedules among regional bodies and meetings, regional workshops/ courses, e.g. via a one-stop calendar of regional events.	<ol style="list-style-type: none"> 1. Krystal Scott (ATSB) (Lead) 2. Rob Chopin (ASTB)
TASK-7	A.V.7. Establish an independent accident and incident investigation authority (AAIIA) as required by Annex 13, as well as related investigation system and procedures	<ol style="list-style-type: none"> 1. David Lim (TSIB) (Lead) 2. Krystal Scott (ATSB) 3. K Ramachandran (AAIB India) 4. Jasbir Singh (AAIB India) 5. Rob Chopin (ATSB) 6. Felix Chen (IFALPA)
APAC-AIG11/3	That, the APAC-AIG Chairs to task the upcoming AIG Expert Group, when established, to review the draft template of Investigation Cooperation Mechanism (ICM) and verify the existing clauses of the APAC-AIG Code of Conduct (CoC) and identify the differences that need to be addressed.	<ol style="list-style-type: none"> 1. Chong, Chow Wah (TSIB) (Lead) 2. Krystal Scott (ATSB) 3. Khairulnizam Jamaludin (AAIB Malaysia) 4. K Ramachandran (AAIB India) 5. Jasbir Singh Larhga (AAIB India)

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