



ICAO

International Civil Aviation Organization

The Eighth Meeting of the APANPIRG ATM Sub-Group

Video Teleconference, 23 – 27 November 2020

Agenda Item 6: ATM Coordination (Meetings, Route Development, Contingency Planning)

REGIONAL ATM CONTINGENCY PLANNING AND STATUS REPORTING

(Presented by the Secretariat)

SUMMARY

This paper presents information on contingency planning in the Asia/Pacific Region. The paper includes an update on the *Asia/Pacific Regional ATM Contingency Plan*, with regard to reporting on implementation and the proposal to merge contact lists into the *Plan*.

1. INTRODUCTION

1.1 The Asia/Pacific Regional ATM Contingency Plan, developed by the Regional ATM Contingency Plan Task Force (RACP/TF), was adopted by the Twenty-Seventh Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/27) in September 2016.

1.2 The *Asia/Pacific Regional ATM Contingency Plan* and the Regional ATM Contingency Plan Monitoring and Reporting form (MS Excel) are available on the ICAO Regional Office eDocuments web-page (ATM section, Contingency sub-section) at:

<https://www.icao.int/APAC/Pages/eDocs.aspx>.

The Contingency Plan is subsidiary to the *Asia/Pacific Seamless ATM Plan*, which has an associated reporting regime to track State implementation of the regional performance expectations that are included in the Seamless Plan.

1.3 The Fifth Meeting of the Air Traffic Management Sub-Group of APANPIRG (ATM/SG/5, Bangkok, Thailand, 31 July to 04 August 2017) considered several of items for inclusion or update of the Asia/Pacific Regional ATM Contingency Plan, leading to the agreement of the meeting to the following Conclusion:

Conclusion ATM/SG/5-8: Asia/Pacific Regional ATM Contingency Plan Amendment

That,

1. the Regional ATM Contingency Plan be amended to include the information and performance objectives in **Appendix F to the Report**;
2. the Regional ATM Contingency Plan Monitoring and Reporting Form provided **Appendix G to the Report** be included in the Regional Framework for Collaborative ATFM as an Appendix and be made available on the ICAO Asia/Pacific website; and
3. Asia/Pacific Administrations are urged to report their ATM Contingency Plan implementation status at least once annually, by no later than 31 May each year.

2. DISCUSSION

Regional ATM Contingency Plan Performance Expectations

2.1 The *Asia/Pacific Regional ATM Contingency Plan* includes in its performance improvement plan the following performance expectations relating to promulgation and reporting of State contingency plans:

7.20 *National ATM Contingency Plans should be promulgated on the website of the Air Navigation Service Provider.*

7.21 *States should report the status of their contingency planning to the ICAO APAC Regional Office, as follows:*

1. *Promulgation of the national ATM Contingency Plan, together with the hyperlink to the website location of the Plan;*
2. *State Contingency Points-of-Contact; and*
3. *The establishment of contingency arrangements with each neighbouring State.*

Note 1: Information of a sensitive nature such as that related to matters of national security need not be included in promulgated contingency plans.

*Note 2: the Regional List of State Contingency Points-of-Contact is provided at **Appendix H**.*

Note 3: APANPIRG Air Navigation Deficiencies may be raised against the provisions of Annex 11 paragraph 2.30 for States that do not report promulgation of their national ATS contingency plan.

7.22 *States should report the status of implementation of the performance expectations of the Regional ATM Contingency Plan at least once annually, by not later than 31 May each year, using the Regional ATM Contingency Plan Monitoring and Reporting Form.*

2.2 The performance expectations of the Regional ATM Contingency Plan were expected to be implemented by 10 November 2016, reflecting the Annex 11 requirement for contingency plans that had been applicable since November 2003.

Regional ATM Contingency Plan Status Reporting

2.3 Regional ATM Contingency Plan Monitoring and Reporting status report forms have been received as follows:

2018 – Macao China, Singapore, Sri Lanka; and

2019 – Australia, Bangladesh, Hong Kong China, Macao China, France (New Caledonia), Indonesia, Japan, Malaysia, Myanmar, Nepal, Philippines, Singapore, Viet Nam, United States.

2020 – Bangladesh, Cambodia, Hong Kong China, Macao China, Indonesia, Pakistan, Republic of Korea, Thailand, Viet Nam.

2.4 Using standardized regional criteria first used for assessment of State implementation of the elements of the APAC Performance-Based Navigation (PBN) Implementation Plan, and now applied to various other regional plans in the ATM, AIM and SAR fields, status reports are assessed by the Regional Office on the basis of the overall implementation of applicable elements of the Regional ATM Contingency Plan:

90 – 100% = *Robust*

70 – 89% = *Marginal*

0 – 69% = *Incomplete*

2.5 **Table 1** summarizes Asia/Pacific Region Contingency Plan implementation status, as reported to the ICAO Regional Office. The collated data provided in State reports is provided in **Attachment A**:

Administration (Tier)	% Implementation	Implementation Status
Afghanistan	<i>no report</i>	Did Not Report
Australia	91	Robust
Bangladesh	29	Incomplete
Bhutan	<i>no report</i>	Did Not Report
Brunei Darussalam	<i>no report</i>	Did Not Report
Cambodia	24	Incomplete
China	<i>no report</i>	Did Not Report
Hong Kong, China	53	Incomplete
Macao, China	56	Incomplete
Cook Islands	<i>no report</i>	Did Not Report
Fiji	<i>no report</i>	Did Not Report
France (French Polynesia)	<i>no report</i>	Did Not Report
DPR Korea	<i>no report</i>	Did Not Report
India	<i>no report</i>	Did Not Report
Indonesia	91	Robust
Japan	59	Incomplete
Kiribati	<i>no report</i>	Did Not Report
Lao PDR	<i>no report</i>	Did Not Report
Malaysia	71	Marginal
Maldives	3	Incomplete
Marshall Islands	<i>no report</i>	Did Not Report
Micronesia	<i>no report</i>	Did Not Report
Mongolia	59	Incomplete
Myanmar	32	Incomplete
Nauru	<i>no report</i>	Did Not Report

Administration (Tier)	% Implementation	Implementation Status
Nepal	0	Incomplete
New Caledonia	29	Incomplete
New Zealand	<i>no report</i>	Did Not Report
Pakistan	74	Marginal
Palau	<i>no report</i>	Did Not Report
Papua New Guinea	26	Incomplete
Philippines	59	Incomplete
Republic of Korea	71	Marginal
Samoa	<i>no report</i>	Did Not Report
Singapore	91	Robust
Solomon Islands	<i>no report</i>	Did Not Report
Sri Lanka	26	Incomplete
Timor Leste	<i>no report</i>	Did Not Report
Tonga	<i>no report</i>	Did Not Report
Thailand	56	Incomplete
Tuvalu	<i>no report</i>	Did Not Report
United States	94	Robust
Vanuatu	<i>no report</i>	Did Not Report
Viet Nam	85	Marginal

Table 1: Reported ATM Contingency Plan Implementation Status

2.6 The meeting is reminded that the ICAO Regional Office is expected to annually report the receipt, or non-receipt, of completed Contingency Plan Monitoring and Reporting Forms, in accordance with the performance expectations of the Regional ATM Contingency Plan, for consideration for addition to the APANPIRG ANS Deficiencies List. This is related to the standard established by Annex 11 – *Air Traffic Services* relating to ATM Contingency Planning:

2.32 Contingency Arrangements

Air traffic services authorities shall develop and promulgate contingency plans for implementation in the event of disruption, or potential disruption, of air traffic services and related supporting services in the airspace for which they are responsible for the provision of such services. Such contingency plans shall be developed with the assistance of ICAO as necessary, in close coordination with the air traffic services authorities responsible for the provision of services in adjacent portions of airspace and with airspace users concerned.

Note 1.— Guidance material relating to the development, promulgation and implementation of contingency plans is contained in Attachment C.

Note 2.— Contingency plans may constitute a temporary deviation from the approved regional air navigation plans; such deviations are approved, as necessary, by the President of the ICAO Council on behalf of the Council.

2.33 States that have failed to provide any status reports are particularly urged to do so. Any status updates received during the ATM/SG/8 meeting will be reflected in the meeting report.

COVID-19-Related ATM Contingency Planning

2.34 ICAO Asia/Pacific Regional Office has conducted several activities in relation to ATM contingency planning in response to the COVID-19 pandemic. These activities have included ATM-specific seminars by video teleconference, and presentations and proposed recommendations to the Asia/Pacific COVID-19 Contingency and Recovery Planning Group ACCRPG).

2.35 Presentations and other documents provided to the various seminars and meetings are available at the following locations:

1. APAC COVID-19 BCP Measures and Guidelines Information Sharing web-page:

<https://www.icao.int/APAC/Pages/COVID-19-BCP.aspx>

2. COVID-19-Related ATM Economics Seminar web-page:

<https://www.icao.int/APAC/Meetings/Pages/2020-COVID-19-ATM-Seminar.aspx>

3. Meeting pages for the ACCRPG/1 – 8, available on the ICAO APAC Regional Office Meetings web-page:

<https://www.icao.int/APAC/Meetings/Pages/default.aspx>

2.36 Outcomes relevant to ATM/SG include the development of the *APAC Regional Strategy for COVID-19-related ATM Contingency Recovery (Attachment B)* which is also available on the APAC COVID-19 BCP Measures and Guidelines Information Sharing web-page. The strategy document includes a list of ANSP and ICAO Regional Office actions, a checklist of contingency operations considerations for ANSPs, a collation of relevant document references and links, and the APAC ATC and Contingency Coordination Team (CCT) points of contact list.

2.37 The meeting is particularly urged to consider the impact of re-opening of traffic to service travel bubbles or city pairs, and the need to ensure that the ATM capacity of all affected FIRs is taken into account, as described in the list of ANSP and ICAO actions in the strategy document.

2.38 Pending the outcome of global efforts to manage and recover from the COVID-19 pandemic, lessons learned will provide the basis for an update of the Regional ATM Contingency Plan to provide further specific guidance on management of pandemic-related contingencies.

Afghanistan Contingency Planning

2.39 The current Kabul FIR bypass plan agreed by the Ad Hoc Afghanistan Contingency Group (AHACG), the *Inter-Regional Afghanistan Contingency Arrangements* is appended at **Attachment C**. Participants are requested to update details contained within the bypass plan, and in particular Contingency Coordination Team (CCT) details.

2.40 Afghanistan is invited to update the meeting on its current State contingency plan regarding the Kabul Flight Information Region (FIR).

East Asia and North Pacific Contingency Coordination Team

2.31 Participants are also requested to update details if required contained within the East Asia and North Pacific Contingency Coordination Team Points of Contact document (**Attachment D**).

Points of Contact

2.41 The Regional Office has determined that it is more efficient to maintain a single ATM List of Contacts for all purposes – administrative, Aeronautical Information Service (AIS), contingency responses and Search and Rescue (SAR). Participants requested to ensure the ATC and CCT points of contact as listed in **ATM/SG/8 WP/30 Attachment A** are updated to facilitate contingency coordination, particularly for COVID-19 pandemic-related CCT purposes.

3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the performance expectations of the Regional ATM Contingency Plan relating to promulgation and reporting;
- b) provide *Regional ATM Contingency Plan* status reports at least once annually, by not later than 31 May each year;
 - i) note that updates received during the ATM/SG/8 meeting will be reflected in the meeting report;
- c) note the information provided on COVID-19 pandemic-related ATM contingency planning, particularly the *APAC Regional Strategy for COVID-19-related ATM Contingency Recovery (Attachment B)*;
- d) (relevant States) to provide updated details for the Inter-regional Afghanistan ATM Contingency Arrangements, particularly the points of contact list (**Attachment C**);
- e) (relevant States) to update points of contact for the East Asia and North Pacific Contingency Coordination Team (**Attachment D**);

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INTERNATIONAL CIVIL AVIATION ORGANIZATION



**ASIA-PACIFIC REGIONAL STRATEGY
FOR
COVID-19-RELATED ATM CONTINGENCY RECOVERY**

Developed by the ICAO Asia/Pacific Regional Office

ASIA-PACIFIC REGIONAL STRATEGY FOR COVID-19-RELATED ATM CONTINGENCY RECOVERY

Air Navigation Service Provider (ANSP) Actions	
1.	Respond to the Second Survey on COVID-19-related ATM capacity (Appendix A), to support development of a regional overview of ATM capacity and recovery capacity. <ul style="list-style-type: none"> - Forward the completed survey to the ICAO Asia/Pacific Regional Office (apac@icao.int) as soon as possible (preferably not later than 31 July 2020). - Inform the Regional Office of any subsequent changes to ATM capacity.
2.	Regularly review the <i>Checklist: Asia/Pacific COVID-19 Contingency Operations and Recovery</i> , (Appendix B) and report any status updates to ICAO Asia/Pacific Regional Office apac@icao.int .
3.	Establish regular liaison between ANSP and government COVID-19 decision-makers. <ul style="list-style-type: none"> - Ensure government COVID-19-related decisions on relaxation of entry restrictions fully take into account local and regional Air Navigation Services' needs for advance notification.
4.	Ensure government COVID-19 decision-makers are kept fully informed of ATM readiness. <ul style="list-style-type: none"> - ANSP contingency operations or limitations that may impact upon or be impacted by any relaxation of entry restrictions. - Neighbouring States' ANSP contingency operations or limitations that may impact upon or be impacted by any resumption of traffic (see item 7. below).
5.	Ensure there is an effective agreement between government COVID-19 decision-makers and the ANSP for minimum advance notification of decisions to relax entry requirements. <ul style="list-style-type: none"> - city pairs. - State-to-State 'travel bubbles'. - unrestricted entry. - ideally not less than 14 days 'advance notification of the effective date of any relaxation of entry restrictions.
6.	Conduct air traffic demand prediction analyses. <ul style="list-style-type: none"> - regular analysis, to develop demand prediction processes and be aware of any trends; - specific demand analyses for each case of proposed relaxation of entry restrictions for city pairs, 'travel bubbles' or unrestricted entry. - ATFM demand/capacity analyses where implemented. - other information sources, e.g. Aviation Regulator, CANSO traffic prediction, IATA; - a list of links to COVID-19-related information is provided in Appendix D.
7.	Establish regular liaison between ANSP and airport authorities. <ul style="list-style-type: none"> - ensure mutual understanding of the impact of ATM capacity and airport capacity limitations on airport and ATM operations.
8.	Keep all neighbouring ANSPs informed of current and planned ATM contingency and recovery operations through regular bilateral and/or multi-lateral Collaborative Decision-Making (CDM) conferencing. <ul style="list-style-type: none"> - Daily information sharing conferences recommended, otherwise weekly, as a minimum. - any planned relaxation of entry restrictions. - results of demand prediction analyses. - The ICAO COVID-19 Outbreak Simplified Procedure for ATM CDM and Sharing of Information provides further information, including guidance and templates for ATM/CDM teleconferencing.
9.	Notify ICAO Asia/Pacific Regional Office of: <ul style="list-style-type: none"> - any changes to ATM contingency status and arrangements; - any planned relaxation of entry restrictions resulting in a recovery of traffic (full or partial); and - Any changes to Contingency Coordination Team (CCT) or ATC Points of Contact (Appendix D). - apac@icao.int; ssummer@icao.int; lwicks@icao.int.

APAC COVID-19 ATM Contingency Recovery Strategy

ICAO Asia/Pacific Regional Office Actions	
1.	<p>On receipt of notification from the ANSP of changes to ATM contingency arrangements, or relaxation of entry requirements, ICAO APAC Regional Office will, where considered necessary, coordinate the convening of Contingency Coordination Teams – <i>Recovery</i> (CCTs-<i>Recovery</i>) to assess and coordinate:</p> <ul style="list-style-type: none"> a. readiness of all affected FIRs (including other ICAO Regions where necessary); b. existing COVID-19-related NOTAMs; c. traffic demand predictions; d. Air Traffic Flow Management (ATFM, where capability exists) or other traffic mitigation requirements; e. agreed common commencement date/time of flights under relaxed entry requirements or other resumption of ATM operations (if necessary); f. reviewed or new NOTAMs as required; g. situation monitoring and reporting; and h. follow-up VTCs.
2.	<p>CCTs-<i>Recovery</i> consisting of relevant APAC Administrations, ICAO, IATA and other relevant International Organizations may be convened on a case-by-case basis. They may be expanded or merged where necessary.</p>
3.	<p>CCTs-<i>Recovery</i> will communicate and confer by electronic means, including email, Video Teleconference (VTC) and, where necessary, telephone.</p>
4.	<p>CCTs will continue to be separately formed where necessary to coordinate the regional response to ATM contingency operations unrelated to the COVID-19 pandemic.</p>

APPENDIX A: SECOND SURVEY ON COVID-19-RELATED ATM CAPACITY

1. Completed survey to be forwarded to the ICAO Asia/Pacific Regional Office (apac@icao.int) by C.O.B Friday 31 July 2020.
2. Further completed survey forms should be forwarded to ICAO whenever the capacity information changes.
3. The form is available in MS Word format on the ICAO Asia/Pacific Regional Office COVID-19 website at <https://www.icao.int/APAC/Pages/COVID-19.aspx>.

Note: The purpose of this second survey is to provide a general overview of regional COVID-19-related ATM capacity for recovery of 'normal' traffic levels for both overflight and arrival/departure. The survey is a further development of the initial survey of COVID-19-related ATM capacity conducted in June 2020, and is intended to provide further information for sub-regional and regional recovery planning.

Indicate your ANSP's current ATM capability/capacity compared to normal full capacity (December 2019)			
Overflight Traffic			
<i>Where more than one ACC is established, indicate overall overflight capacity for the ANSP</i>			
<input type="checkbox"/> 0 – 25%	<input type="checkbox"/> 26 – 50%	<input type="checkbox"/> 51 – 75%	<input type="checkbox"/> 76 – 100%
Arriving/Departing Traffic			
<i>Where more than one ACC/TMA/TWR is established, indicate overall ARR/DEP capacity for the ANSP</i>			
<input type="checkbox"/> 0 – 25%	<input type="checkbox"/> 26 – 50%	<input type="checkbox"/> 51 – 75%	<input type="checkbox"/> 76 – 100%

If your ANSPs current ATM capability/capacity is less than 100% of full capacity (December 2019), indicate how long it would take to reach the following capacity levels:			
Overflight Traffic			
<i>Where multiple ACCs are established, indicate overall/combined recovery periods for the ANSP, for overflight traffic.</i>			
Percentage of Full (Dec 2019) Capacity	3 Days	7 Days	14 Days
50%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arriving/Departing Traffic			
<i>Where multiple ACC and/or TMA units are established, indicate overall/combined recovery periods for the ANSP, for arriving/departing traffic.</i>			
Percentage of Full (Dec 2019) Capacity	3 Days	7 Days	14 Days
50%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

APPENDIX B: CHECKLIST: ASIA/PACIFIC COVID-19 CONTINGENCY OPERATIONS AND RECOVERY

Note: Originally distributed as an APAC survey of regional contingency readiness, the survey questions may also serve as a checklist of considerations for States to assess and update their contingency readiness.

CURRENT AND ONGOING CONTINGENCY OPERATIONS		
Check the box if the Air Navigation Service Provider:		
1.	<input type="checkbox"/>	Established an ATM Central Coordinating Committee (CCC) function for the development, maintenance, activation and conduct of contingency plans, and for the forming of an ATM Operational Contingency Group (AOCG) function. <i>Ref: APAC Regional ATM Contingency Plan elements 5.8, 5.9, 7.1</i>
2.	<input type="checkbox"/>	Convened an ATM Operational Contingency Group for COVID-19-related contingency <i>Ref: APAC Regional ATM Contingency Plan elements 5.10, 5.11, 7.1</i>
3.	<input type="checkbox"/>	Established Level 1 contingency plans for all ATS units, for services that are reduced or withdrawn due to pandemic. <i>Ref: APAC Regional ATM Contingency Plan elements 1.3, 5.5 to 5.7, 5.12, 7.1 to 7.7 and Appendix C</i>
4.	<input type="checkbox"/>	Established Level 2 contingency arrangements with all neighbouring administrations, for reduced or withdrawn ATS affecting cross-border flights. <i>Ref: APAC Regional ATM Contingency Plan elements 1.3, 5.5 to 5.7, 5.12, 7.1 to 7.7 and Appendix C</i>
5.	<input type="checkbox"/>	Established contingency ATS routes, Flight Level Allocation Scheme/s (FLAS) and associated procedures applicable to COVID-19-related contingency operations in the event of reduced or withdrawn ATS affecting cross-border flights. <i>Ref: APAC Regional ATM Contingency Plan elements 1.3, 5.5 to 5.7, 5.12, 7.1 to 7.7 and Appendix C</i>
6.	<input type="checkbox"/>	Published details of ATS contingency routes and Flight Level Allocation Schemes (FLAS) in AIP <i>Ref: APAC Regional ATM Contingency Plan element 7.6</i>
7.	<input type="checkbox"/>	Prepared template NOTAMs for promulgation of ATS contingency routes, FLAS and procedures, in readiness for COVID-19-related reduction or withdrawal of services. <i>Ref: ICAO State Letter AP086/20 (ATM)</i>
8.	<input type="checkbox"/>	Due to COVID-19, developed and implemented a process for monitoring current and expected traffic demand.
9.	<input type="checkbox"/>	Due to COVID-19, implemented processes in ATS units to reduce the risk of virus transmission (e.g. social distancing, protective clothing/face masks, roster segregation)
10.	<input type="checkbox"/>	Due to COVID-19, implemented processes in ATS units for frequent sterilization of shared workstations and other equipment.
11.	<input type="checkbox"/>	Due to COVID-19, implemented processes for COVID-19 tests and follow-up medical treatment (if necessary) for licensed ATC and other key personnel. (ATC, AIS, FIS, RFF, SAR, and CNS technical maintenance personnel)

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CURRENT AND ONGOING CONTINGENCY OPERATIONS		
Check the box if the Air Navigation Service Provider:		
1.	<input type="checkbox"/>	Due to COVID-19, amended or relaxed regulations for ATC licensing, license validity and medical certification. <i>Ref: ICAO Annex 1 Personnel Licensing section 4.5 and chapter 6.</i>
		<input type="checkbox"/> Registered a Difference in the ICAO EFOD system. (see CCRD).
2.	<input type="checkbox"/>	Due to COVID-19, implemented a program of refresher training for maintenance of ATC skills in preparation for resumption of normal traffic demand.
3.	<input type="checkbox"/>	Due to COVID-19, implemented processes to ensure the validity of performance assessments demonstrating ATC skills required for normal (pre-COVID-19) traffic.
Comments		

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APPENDIX C: REFERENCES AND LINKS

REFERENCES	
ICAO Annex 11 – Air Traffic Services - Standards and Recommended Practices	
2.3.2	<p>Contingency Arrangements</p> <p>Air traffic services authorities shall develop and promulgate contingency plans for implementation in the event of disruption, or potential disruption, of air traffic services and related supporting services in the airspace for which they are responsible for the provision of such services. Such contingency plans shall be developed with the assistance of ICAO as necessary, in close coordination with the air traffic services authorities responsible for the provision of services in adjacent portions of airspace and with airspace users concerned.</p> <p><i>Note 1.— Guidance material relating to the development, promulgation and implementation of contingency plans is contained in Attachment C.</i></p> <p><i>Note 2.— Contingency plans may constitute a temporary deviation from the approved regional air navigation plans; such deviations are approved, as necessary, by the President of the ICAO Council on behalf of the Council.</i></p>
Attachment C	<p>Material (Guidelines) Relating to Contingency Planning</p> <p>Status of contingency plans; responsibility for developing; promulgating and implementing contingency plans; preparatory action (including public health emergencies); coordination, development, promulgation and application of contingency plans.</p>
ICAO Annex 1 – Personnel Licensing – Standards and Recommended Practices	
4.3	Student Air Traffic Controller
4.4	Air Traffic Controller Licence
4.5	Air Traffic Controller Ratings
Chapter 6	Medical Provisions for Licensing
ICAO Asia/Pacific Regional ATM Contingency Plan Regional Guidance Material and APANPIRG-Agreed Performance Expectations	
Links	<p>ICAO Asia/Pacific Regional Office eDocuments web-page (ATM Section, Contingency sub-section)</p> <p>Regional ATM Contingency Plan</p> <p>Regional ATM Contingency Plan Monitoring and Reporting Form</p>
1.3	Hierarchy and categories of contingency plans (<i>levels and categories</i>)
5.7 and Appendix B	Basic Plan Elements (BPE).
5.8 to 5.12	Contingency plan coordination and operations functions, including establishment of <i>Central Coordinating Committee (CCC)</i> and <i>ATM Operational Contingency Group</i> functions.
5.13 and 5.14	Coordinated recovery from contingency operations.
Appendix C	Template for Level 1 and Level 2 contingency planning.
Section 7	Performance Improvement Plan (APAC regional performance expectations). <i>Elements relevant to ATM contingency planning for pandemic:</i> <i>7.1 to 7.8, 7.10, 7.11, 7.20 to 7.22.</i>

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Additional Information	
Links	<p><u>ICAO Headquarters</u></p> <p>Aviation and COVID-19</p> <p>ICAO Council Aviation Recovery Task Force (CART)</p> <p>Safety Operational Measures</p> <p>Doc 10144 Handbook for CAAs on the Management of Aviation Safety Risks related to COVID-19</p> <p>COVID-19 – ATM-dedicated web-page, including:</p> <ul style="list-style-type: none">- Simplified procedure for ATM CDM and Sharing of Information- Example review of potential hazards associated with ATS recovery <p>Airport Status</p> <p><u>ICAO Asia/Pacific Regional Office</u></p> <p>ICAO Asia/Pacific Regional Office COVID-19 Website</p> <ul style="list-style-type: none">- ICAO Asia/Pacific Regional Office COVID-19 BCP Measures & Guidelines Information Sharing- APAC COVID-19 ATM-ATFM Status Update and Status Reporting Template- APAC COVID-19 Contingency and Recovery Planning Group <p>IATA, CANSO, IFATCA.</p>

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APPENDIX D: AIR TRAFFIC CONTROL (ATC) AND CONTINGENCY COORDINATION TEAM (CCT) POINTS OF CONTACT

UPDATED: 12 July 2020

Note: The Points of Contact List includes selected non-Asia/Pacific States, for contingency coordination purposes.

	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	AFGHANISTAN			
CCT	Mr. Ahmad Jawid Shahryar	Deputy DG for operations	Tel: +93700244349	shahryar@acaa.gov.af ; shahryarjawid@gmail.com ;
CCT	Mr. Gh Masoom Masoomi	Director of ATM	Tel: +93786308480	Yama_masoomi@yahoo.com ;
CCT	Mr.Zabiullah Ahmadi	Head ATS section	Tel: +93729111032	za_twr@yahoo.com ;
ATC	Mr. Mohammad Qayoum Najim	Manager of Kabul ACC	Tel: +93794097917	qayoumsamim@gmail.com ;
ATC	Mr. Doug Tyson	Advisor for Kabul ACC	Tel: +93797472285	doug.tyson123@yahoo.com ;
ATC	Mr. Haseebullah Zargar	ATC at Kabul ACC	Tel: +93798127848	haseebhaqyar@gmail.com ;
ATC	Ms. Meheria Khalil	Manager Kabul App	Tel: +93703718647	mikeromeo31@yahoo.com ;
	ARMENIA			
CCT	Mr. Artur Gasparyan	Director General "ARMATS" CJSC	Tel: +374 10284142 Fax: +374 10284142	arthur.gasparyan@armats.am ;
CCT	Mr. Sergey Danielyan	Chief of ATC Centre ARMATS	Tel: +37410282673 Fax: +37410282673	sergey.danielyan@armats.am ;
	AZERBAIJAN			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Bala Mirzayev	Head of ATS, Azeraeronavigation	Tel: +99 4124971604 Fax: +99 4124971604	BalaMirzayev@azans.az ;
CCT	Mr. Agabek Balabekov			agabek.balabekov@azans.az ;
AUSTRALIA				
ATC	Mr. Neil Bain	ATS Specialist Team Leader Operational Standards Airservices Australia Locked Bag 747 Eagle Farm, Qld, 4009	Tel: +61 7 3866 3526 Fax: +61 7 38663742 Mobile: +61 409069851	neil.bain@airservicesaustralia.com ; international@airservicesaustralia.com ;
BAHRAIN				
CCT	Abdallal Alquadhi	Director AIS		aalqadhi@mtt.gov.bh ;
CCT	Ahmed Bucheery	Director ATM		aalqadhi@mtt.gov.bh ;
BANGLADESH				
CCT	Md. Mizanur Rahman	Deputy Director (ATS) ATM Division Civil Aviation Authority of Bangladesh	Tel: +880 28901431, +8801911529066	ddats@caab.gov.bd ; azad_mizan@yahoo.com ;
CCT	Mohammad Doulotuzzaman	Assistant Director Chief Instructor, Civil Aviation Training Center Civil Aviation Authority of Bangladesh	Tel: +880 1913575716	65mdzaman@gmail.com ;
ATC	Md. Masud Rana	Assistant Director Deputy Station Air Traffic Officer (SATO) Air Traffic Control Center Hazrat Shahjalal International Airport Dhaka, Bangladesh	Tel: +880 1913575853	mdmrana@yahoo.com ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	Mohammad Shamsudduha	Senior Aerodrome Officer Air Traffic Control Center Hazrat Shahjalal International Airport, Dhaka.	Tel: +880 1913575769	sdoha70@gmail.com ;
BHUTAN				
ATC	Ms. Phuntsho Yeozzer	ATC Officer ANSP Division Department of Air Transport Paro Int. Airport - Bhutan	Tel: +975 (8) 272306	Pyeozzer@doat.gov.bt ;
ATC	Mr. Yonten Dendup	ATS Inspector Air Navigation Services Section Bhutan Civil Aviation Authority (BCAA) 2nd Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 219)	ydendup@bcaa.gov.bt ;
BRUNEI DARUSSALAM				
CAMBODIA				
CCT	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation #44 Phnom Penh International Airport, Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159 H/P: +855 16 354 519	tphoumith9999@gmail.com ; tithphoumith@ssca.gov.kh ;
ATC	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation #44 Phnom Penh International Airport, Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159 H/P: +855 16 354 519	tphoumith9999@gmail.com ; tithphoumith@ssca.gov.kh ;
CHINA				

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Wang Haibo	Director of Department of General Affairs CAAC	Tel: +86 10 64091504 Mobile: +86 13 911403951	
CCT	Mr. Li Zhe	Deputy Director of Emergency Response Office CAAC	Tel: +86 10 64092125 Mobile: +86 15 810978307	lizhe00162@163.com ;
HONG KONG, CHINA				
CCT	Mr Tommy AU-YEUNG	Chief (Operations) 1 Civil Aviation Department 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau	Tel: +852 2910 8170 Fax: +852 2910 8170 +852 2910 0186	thlauyeung@cad.gov.hk ;
MACAO, CHINA				
CCT	Mr. Stanley Wa Kin PUN	Vice President Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4136 Fax: +853 2833 8089	stanleypun@aacm.gov.mo ;
CCT	Mr. Bryan Kuan Hou CHIU	Safety Officer (ATC) Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4142 Fax: +853 2833 8089	bryanchiu@aacm.gov.mo ;
ATC	Mr. Bryan Kuan Hou CHIU	Safety Officer (ATC) Civil Aviation Authority – Macao, China SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4142 Fax: +853 2833 8089	bryanchiu@aacm.gov.mo ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA (DPRK)			
CCT	Mr. An Kyong Hwa	Deputy Director, Air Traffic Management Bureau (ATMB), General Administration of Civil Aviation	Tel: +850 2 18111 X 8108 Fax: +850 2 3814625 Ext-4625	gaca@silibank.net.kp ;
	FIJI			
CCT	Mr. Isei Tudreu	General Manager ATM & Operations Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906617	IseiT@fijiairports.com.fj ;
CCT	Theresa Levestam	Controller Ground Safety Civil Aviation Authority of Fiji Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8923167 +679 8923155 ext 3371 Fax: +679 672 0261	cgs@caaf.org.fj ;
ATC	Mr. Amit Singh	ATM Co-Head Operations & Support Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906127	AmitS@fijiairports.com.fj ;
ATC	Mr. Ivan Wong	ATM Co-Head Operations Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906128	IvanW@fijiairports.com.fj ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	Mr. Makiti Raratabu	Air Traffic Management Inspector Air Traffic Management & Meteorology Civil Aviation Authority of Fiji, Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8927907 +679 8923155 ext 3405 Fax: +679 672 0261	makiti.raratabu@caaf.org.fj ;
	FRANCE (FRENCH POLYNESIA)			
ATC	Mr. Nicolas Hinchliffe	Head of ATC Department SEAC/PF – DGAC	Tel: +689 4086 1147 Fax: Mobile: +689 8953 4894	nicolas.hinchliffe@aviation-civile.gouv.fr ;
	FRANCE (NEW CALEDONIA)			
ATC	M. Thierry HORLAIT	Head of Tontouta Air Traffic Services Head or New Caledonian ARSC	Tel: +687 35.24.01 Mobile: +687 78 57 39	
	INDIA			
CCT	Mr. A K Meena	Executive Director (Air Space Management) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24632992 Fax: +91 11 24610528 Mobile: +91 9650108662	edasm@aai.aero ;
CCT	Mr. K Vasudevan	General Manager (Air Space Management) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24629012 Fax: +91 11 24610528 Mobile: +91 9920065132	gmasm@aai.aero ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	Watch Supervisory Officer, Chennai FIR	Area Control Centre, Chennai Airport, Chennai	Tel: +91 44 22560894 Fax: +91 44 22561365 (24 hours) Mobile: +91 9514074449	vomm.wso@aai.aero ;
ATC	Watch Supervisory Officer, Delhi FIR	Area Control Centre, I.G.I. Airport, New Delhi	Tel: +91 11 25653283, +91 11 28705100 Fax: +91 11 25653284 (24 hours) Mobile: +91 7290017580	wsoigidelhi@aai.aero ;
ATC	Watch Supervisory Officer, Kolkata FIR	Area Control Centre, NSCBI Airport, Kolkata	Tel: +91 33 25119520 Fax: +91 33 25130134 (24 hours) Mobile: +91 9831591366	vecc.wso@aai.aero ;
ATC	Watch Supervisory Officer, Mumbai FIR	Area Control Centre, CSI Airport Mumbai	Tel: +91 22 20888088 Fax: +91 22 26828066 (24 hours) Mobile: +91 9869062250	vabb.wso@aai.aero ;
INDONESIA				
CCT	Mr Tian Kusdinar	Chief of ATM Section Directorate of Air Navigation, DGCA Indonesia, MOT 23rd Floor Karya Building Medan Merdeka Barat No. 8 Jakarta 10110	Tel: +62 21 3506451, 3506617 Fax: +62 21 3507569 Mobile: +62 813 8449 7414	tian231182@gmail.com ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Hermawan Novitriyanto	Manager of Area Control Center and Terminal Control Area Directorate of Operation, AirNav Indonesia 2nd floor Support Building of AirNav Indonesia Headquarters Ir. H. Juanda # 1, Tangerang 15121Banten	Tel: +62 21 55915000, Fax: +62 21 55915100 Mobile: +62 81284173391	hermawan.airnav@gmail.com ;
CCT	Mr. Indra Gunawan	Deputy Director of Air Navigation Operation, DGCA of Indonesia		indraate31@gmail.com ;
CCT	Mrs. Nurdini Tambunan	Air Navigation Inspector, DGCA of Indonesia		truedien@gmail.com ;
CCT	Mr. Rahmat Widiyana	ATFM adn CDM Planning Manager, Airnav Indonesia		rachmat.widiyana@airnavindonesia.co.id ;
ATC	Mr. Raden Triaswanto	Junior Manager Planning and Evaluation of Jakarta ACC Upper Kalimantan, Jakarta Air Traffic Services Centre (JATSC)	Tel: +62 819 5682 502	rtriaswanto@gmail.com ;
ATC	Mr. Ari Nugraha Harsawardhana	Junior Manager of Planning and Evaluation of Ujung Pandang ACC, Makassar Air Traffic Services Centre (MATSC)	Tel: +62 877 8008 1977	arieharsa@gmail.com ;
	IRAN			
CCT	Mr. Ahmad Kaveh Firouz	Deputy of Tehran ACC	Tel: +982144544119 Tel: +982144544119 (H) Fax: 989123230447 Mobile: +982144433100	ahmadkavehfiroz@gmail.com ;
	JAPAN			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. NINOMIYA Osamu	Special Assistant to the Director, Flight Procedures and Airspace Program Office, Japan Civil Aviation Bureau, Japan Airspace Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8750 Fax: +81 3 5253 1664	ninomiya-o104h@mlit.go.jp ;
ATC	Mr. SHIGENOBU Toshiya	Special Assistant to the Director, Air Traffic Control Division, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8749 Fax: +81 3 5253 1664	shigenobu-t07sa@mlit.go.jp ;
KIRIBATI				
ATC	Ms. Muraea Tiaoti	ATS Manager Airport Service Kiribati Bonriki International Airport	Tel: +686 752 28092 Fax: +686 28280	mtiaoti@gmail.com ;
KUWAIT				
CCT	Shaine Al-Ghanim	Director Safety		sm.alghanim@dgca.gov.kw ;
CCT	Musatfa Al -ararh	Director ANS Safety		ma.altarrah@dgca.gov.kw ;
KYRGYZ REPUBLIC				
CCT	Mr. Dmitriy Chetvertak	Head of ATM Department SE Kyrgyzaeronavigatsia	Tel: +996-312393130 Fax: +996-312-393093	kan_atm@kan.kg ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Ulukbek Rakhmanov	Director General	Tel: +996-312393559 Fax: +996-312-393 093	kan_atm@kan.kg ;
LAO PDR				
ATC	Mr. Amdounla Salinphone	Director of ATSD Air Traffic Services Division (ATSD) Lao Air Navigation Services (LANS) Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box 2985	Tel: +856 21 512006 Fax: +856 21 512216 Mobile: +856 20 55668240	asalinphone@gmail.com ;
ATC	Mr. Thanongdeth Nalisak	Deputy Director of ANSD Air Navigation Standards Division (ANSD) Department of Civil Aviation of Lao PDR (DCAL) Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box: 119.	Tel: +856 21 513 163 Fax: +856 21 520 237 Mobile: +856 20 54212446	thanongdeth@dcal.gov.la ; thanongdeth.nalisak@gmail.com ;
MALAYSIA				
CCT	Mr. Rohdizad bin Ariffin	Dep Director Kuala Lumpur Area Control Centre Blok B, Air Traffic Control Complex Sultan Abdul Aziz Shah Airport 47200 Subang, Selangor	Tel: +60 3 7846 5233 Fax: +60 3 7845 6590 Mobile: +6013 6190716	rohdizad@caam.gov.my ;
CCT	Mr. Chars Wong	Deputy Director Kota Kinabalu Area Control Centre Jalan Kepayan 88618 Kota Kinabalu, Sabah	Tel: +60 16 817 6983 Fax: +60 88 219 198	chars@caam.gov.my ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Wong Ding Hook	Deputy Director Kuching Area Control Centre P.O. Box 1359 93728 Kuching, Sarawak	Tel: +6019 818 5932 Fax: 082-454523	dhwong@caam.gov.my ;
CCT	Md. Nastain Bin Mahazur	Senior Asst Director Civil Aviation Authority of Malaysia 4 th Floor, Block Podium , No 27 Pesiaran Perdana 62618 Putrajaya, Malaysia	Tel: +603 88714272 Fax: +603 88810530 Mobile: +6017 2187531	mdnastain@caam.gov.my ;
CCT	Mr. Muddastsir Bin Mashor	Senior Asst Director Civil Aviation Authority of Malaysia 4 th Floor, Block Podium , No 27 Pesiaran Perdana 62618 Putrajaya, Malaysia	Tel: +603 88714273 Fax: +603 88810530 Mobile: +60122334550	muddatsir@caam.gov.my ;
ATC	Mr. Rohdizad bin Ariffin	Dep Director Kuala Lumpur Area Control Centre Blok B, Air Traffic Control Complex Sultan Abdul Aziz Shah Airport 47200 Subang, Selangor	Tel: +60 3 7846 5233 Mobile: +6013 6190716 Fax: +60 3 7845 6590	rohdizad@caam.gov.my ;
ATC	Mr. Chars Wong	Deputy Director Kota Kinabalu Area Control Centre Jalan Kepayan 88618 Kota Kinabalu, Sabah	Tel: +60 16 817 6983 Fax: +60 88 219 198	chars@caam.gov.my ;
ATC	Mr. Wong Ding Hook	Deputy Director Kuching Area Control Centre P.O. Box 1359 93728 Kuching, Sarawak	Tel: +6019 818 5932 Fax: 082-454523	dhwong@caam.gov.my ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	MALDIVES			
ATC		Watch Manager Male Area Control Centre, Velana International Airport	Tel: +960 332 2071 Mobile: +960 7977802 (24 hrs)	sup_matcc@macl.aero ;
	MARSHALL ISLANDS			
	TO BE PROVIDED			
	MICRONESIA			
	TO BE PROVIDED			
	MONGOLIA			
CCT	Mr. Erdenebat Yondon	Deputy Director National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285100 Fax: +976 70 049640	yo_erdenebat@mcaa.gov.mn ;
CCT	Mr. Urtnasan Doljin	Officer National Civil Aviation Service Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285014 Fax: +976 70 049640	d_urtnasan@mcaa.gov.mn ;
ATC	Mrs. Mandkhai Batjil	ATM officer Air Navigation and Airports Policy Regulation Department, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 282060 Fax: +976 70 049640	mandkhai.b@mcaa.gov.mn ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	Mr. Purevsukh Purev	Director ATS Division, National Civil Aviation Service Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 281700 Fax: +976 70 049640	purevsukh@mcaa.gov.mn ;
	MYANMAR			
CCT	Mr. Aung Kyaw Tun	Director General Department of Civil Aviation DCA Headquarters Building Yangon International Airport P.O.Box 11021, Mingaladon Yangon	Tel: +95 (1) 533015 Fax: +95 (1) 533016	dgdca@dca.gov.mm ;
	NAURU			
	TO BE PROVIDED			
	NEPAL			
CCT	Mr. Mukul Mishra	Chief, CNS P & D Department Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4249379 Fax: +977 1 4262516 Mobile: +977 9849496700	mishramukul@hotmail.com ;
ATC	Mr. Deepak Baral	Director, ATM Department, Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4266139 Fax: +977 1 4262516 Mobile: +977 9851071819	Deepak.baral@caanepal.gov.np ;
	NEW ZEALAND			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	OMAN			
CCT	Mr. Saleh Al Harthy	Director of CNS	Tel: +968-24519789	saleh@paca.gov.om ;
CCT	Mr. Mubarak Al Ghelani	Director of ATC	Tel: +968-24518646	m.alghelani@paca.gov.om ;
CCT	Mr. Nasser Al Mazroui	Chief of ACC	Tel: +968-24518646	n.almazroui@paca.gov.om ;
	PAKISTAN			
CCT	Mr. Iftikhar Ahmed	Additional Director ATS Headquarters, Pakistan Civil Aviation Authority Terminal No.1, Jinnah International Airport Karachi 75200	Tel: +92 21 99242044 Fax: +92 21 99242045 Mobile: +92 301 8267926	Adldops.atm@caapakistan.com.pk ;
	PALAU			
	TO BE PROVIDED			
	PAPUA NEW GUINEA			
CCT	Mr. Gabriel Salayau	Executive Manager Aviation Facilities Civil Aviation Safety Authority	Tel: +675 3027551	gsalayau@casapng.gov.pg ;
CCT	Mr. Phil Irvine	Executive Manager Air Traffic Service PNG Airservices Limited	Tel: +675 3131521	pirvine@pngairservices.com.pg ;
ATC	Mr. Gabriel Salayau	Executive Manager Aviation Facilities Civil Aviation Safety Authority	Tel: +675 3027551	gsalayau@casapng.gov.pg ;
ATC	Mr. Phil Irvine	Executive Manager Air Traffic Service PNG Airservices Limited	Tel: +675 3131521	pirvine@pngairservices.com.pg ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	PHILIPPINES			
ATC	Mr. Amada de Guzman, Jr.	Head, Operation Center Civil Aviation Authority of the Philippines MIA Road, Pasay City 1300 Metro Manila, Philippines	Tel: +632 7944 2030 +632 7944 2031	opcen@grnail.com ;
ATC	Ms. Maria Theresa L. Olpindo	Department Manager, III Air Traffic Control and Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 944 2221	Limavic2000@yahoo.com ;
ATC	Mr. Ferdinand A. Tienzo	Chief, Enroute Division Air Traffic Control and Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 944 2215	fatienzo@caap.gov.ph ;
ATC	Mr. Romel Y. Matnog	Chief, Approach Division Air Traffic Control and Airspace Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2215	mdapproach@yahoo.com ;
ATC	Ms. Marlene I. Singson	Chief, Aerodrome Division Air Traffic Control and Airspace Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2222	phlaerodrometowers2017@gmail.com ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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ATC	Mr. Joselito D. Mamuad	Facility Chief Manilla-Clark Approach Cluster Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 8672 7711	ym_atcradar@yahoo.com ;
ATC	Ms. Helen Grace J. Cabuyadao	Facility Chief Manila Control Tower Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2169	juliet_golf@yahoo.com ;
REPUBLIC OF KOREA				
CCT	Ms. Hye-in Jung	Deputy Director Air Traffic Command Center Air Traffic Management Office 50-12, Maeyeou-ro 1 gil, Dong-gu, Daegu City, 41059	Tel: +82 53 668 0232 Fax: +82 53 668 0275	hyein@korea.kr ;
CCT	Ms. So-hyun Park	Assistant Director Air Traffic Division Korea Office of Civil Aviation Ministry of Land, Infrastructure and Transport #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel.: +82 44 201 4196 Fax: +82 44 201 5631	psohyon@korea.kr ;
QATAR				
CCT	Qatar FLS			aalhammadi@caa.gov.qa ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Qatar MFP			ahmed@caa.gov.qa ; Ahmed@caa.gov.qa ;
	SAUDI ARABIA			
CCT	Mr. Ibrahim Al-Jabri			ialjabri@gaca.gov.sa ;
	RUSSIAN FEDERATION			
CCT	Mr. Sergey Pogrebnov	Deputy Director General, State ATM Corporation HQ	Tel: Fax:	Pogrebnov@matfmc.ru ;
CCT	Mr. Peter Shipil	Director, International Relations and Protocol, State ATM Corporation HQ	Tel: Fax:	shipil@gkovd.ru ;
CCT	Mr. Alexey Buevich	Head of ATFM & Strategic Planning, Main ATM Center of Russia, State ATM Corporation	Tel: +7 495 6010643 Fax: +7 495 601 07 64	matcc@aviacom.ru ;
CCT	Mr. Konstantin Starostin,	Deputy Branch Director for ATM, Far East Air Navigation Branch (Khabarovsk), State ATM Corporation	Tel: Fax:	sko@dv.gkovd.ru ;
CCT	Mr. Viktor Trikopa,	Head of ATM unit, North East Air Navigation Branch (Magadan)	Tel: Fax:	trikopa@sv.gkovd.ru ; acc@sv.gkovd.ru ;
CCT	Mr. Alexey Khrabrov	Chief of ATM Services, PK ACC	Tel: +7 914 788 1874 Fax:	
	SAMOA			
	TO BE PROVIDED			
	SINGAPORE			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	Mr. Thomas Yeo	Senior Chief (SATCC)/ Chief (Approach) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6541 2947 Fax: +65 6545 6252	thomas_yeo@caas.gov.sg ;
ATC	Mr. Harrison Lim	Chief (Area) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6422 7048 Fax: +65 6545 6252	harrison_lim@caas.gov.sg ;
ATC	Mr. Yeo Khung Hui			YEO_Khung_Hui@caas.gov.sg
SOLOMON ISLANDS				
ATC	Mr Alfred Pitaa	Manager Air Traffic Services Ministry of Communication and Aviation PO BOX 1850 HONIARA	Tel: +677 36326 OR +677 36271	APita'a@mca.gov.sb;
SRI LANKA				
CCT	Mr. Sumith Tennakoon	Senior Manager – Air Traffic Control	Tel: +94 11 2623030 Ext: 251 Fax: +94 112635105 Mobile: +94 777703854	sumithatc.ans@airport.lk ;
ATC	Mr. Nishan Abeywardena	Head of Air Navigation Services Air Navigation Services Complex Bandaranaike International Airport, Katunayake. Sri Lanka	Tel: +94 11 2252062 Fax: +94 11 2252062 Mobile: +94 11 768242691	head.ans@airport.lk ;
TAJIKISTAN				

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Alisher A. Shambiev,	First Deputy of Director General, SUE “Tajikairnavigation”	Tel: +992 48 701-17-20	a.shambiev@airnav.tj ;
THAILAND				
CCT	Mr. Piyawut Tantimekabut,	Air Traffic Management Network Manager Network Operations Air Traffic Management Center Aeronautical Radio of Thailand Ltd. (AEROTHAI) 102 Soi Ngamduplee, Tungmahamek, Sathon Bangkok 10120 Thailand	Tel: +66 2 287 8616 Fax: Mobile: +66 89 697 5859	piyawut@aerothai.co.th ;
ATC	Ms. Suppanat Hannarongsag	Senior Director, Bangkok Area Air Traffic Control Management Bureau Aeronautical Radio of Thailand Ltd (AEROTHAI) 102 Soi Ngamduplee Tungmahamek, Sathorn, Bangkok 10120	Tel: +66 2 287 8808 Mobile: +66 85 481 1646	suppanat.ha@aerothai.co.th ;
TONGA				
ATC	Mr. Tino Fuka	Chief Operating Officer Tonga Airports Limited Fua’amotu International Airport P.O. Box 876 Nuku’alofa	Tel: +676 35212 Mobile: +676 7767264	tfuka@tongaairports.com ;
TURKEY				
CCT	Mr. Ayhan Öztekin	Air Traffic Manager, DHMI HQ, Ankara	Tel: +90 312 2042290 Fax: +903122220976	Ayhan.Oztekin@dhmi.gov.tr ;
CCT	Mr. Sıtkı Kağan Ertas	Air Navigation Department General Directorate of State Airports Authority	Tel: +90 312 2042592 Fax: +90 3122220976	Kagan.Ertas@dhmi.gov.tr ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	TURKMENISTAN			
CCT	Mr. Batyr Chikayev	Chief of Ashgabat ACC, "Turkmenhowayollary", State Civil Aviation Department	Tel: + 99 312233880 Fax: + 99 312230199	
	UAE			
CCT	Mr. Hamad Rashid Al Belushi	Director Air Traffic Management GCAA P.O Box 666, Abu Dhabi	Tel.: +971 2 5996830, +971 50 6164350 Fax: +971 2 5996836	hbelushi@szc.gcaa.ae ;
CCT	Mr. Ahmed Al Jallaf	Assistant Director General Air Navigation Services Sector GCAA P.O Box 666, Abu Dhabi	Tel.: +971 2 5996888, +971 50 6599242 Fax: +971 2 5996883	aljallaf@szc.gcaa.ae ;
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INTERNATIONAL CIVIL AVIATION ORGANIZATION



INTER-REGIONAL

AFGHANISTAN ATM CONTINGENCY ARRANGEMENTS

**Version 1.0
September 2016**

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontier or boundaries.

**INTER-REGIONAL AFGHANISTAN AIR TRAFFIC MANAGEMENT CONTINGENCY
ARRANGEMENTS**

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FOREWORD

This Document is for guidance only. Regulatory material relating to the aircraft operations is contained in relevant ICAO Annexes, PANS/ATM (Doc.4444), Regional Supplementary Procedures (Doc.7030), States AIPs and current NOTAMs, which should be read in conjunction with the material contained in this Document.

Guidelines for contingency measures for application in the event of disruptions of air traffic services and related supporting services were first approved by the Council on 27 June 1984 in response to Assembly Resolution A23-12, following a study by the Air Navigation Commission and consultation with States and international organizations concerned, as required by the Resolution. The guidelines were subsequently amended and amplified in the light of experience gained with the application of contingency measures in various parts of the world and in differing circumstances.

The purpose of the guidelines contained in this document is to assist in providing for the safe and orderly flow of international air traffic in the event of disruptions of air traffic services and related supporting services and in preserving the availability of major ATS routes within the Kabul Flight Information Region (FIR).

The main objective of the Inter-Regional Afghanistan ATM Contingency Arrangements is to provide a description of the inter-regional contingency measures in place to deal with a range of contingency situations.

This Contingency Arrangements have been developed by the Ad Hoc Afghanistan Contingency Group (AHACG) in accordance with instructions from the Secretary General of the International Civil Aviation Organization (ICAO) and the decision taken by the Asia Pacific Planning and Implementation Group (APANPIRG).

INTRODUCTION

The Air Navigation Services (ANS) within the Kabul Flight Information Region (FIR) were provided under the framework of the North Atlantic Treaty Organization (NATO) and United States. This structure was expected to end during the 3rd Quarter of 2015. It is currently unclear, if Afghanistan Civil Aviation Authority (ACAA) would be able to provide ANS with their own resources or contract a new body that would provide these ANS functions on their behalf.

The termination of provision of the affected Air Navigation Services should be announced by Notice to Airmen (NOTAM) 28 days before the end date of the cessation of services. If this airspace contract is not extended, all air traffic control services (Kabul Area Control Center comprising the low and high airspace structure, as well as Kabul Approach Control) and also de-confliction services between civil and military operation will terminate on that end date.

The effective transition from military to civilian control of the ANS within the Kabul FIR is critically important to support the major traffic flows between Europe and Asia through the Kabul FIR and the adjacent airspace. This situation has become even more critical due to a variety of airspace constraints and operation limitations/restrictions in the neighbouring FIRs.

Consequently, the High-Level Meeting on Afghanistan Airspace Contingency Planning in Hong Kong, China 28 November 2014 decided that the contingency aspects for the continued safe and efficient operation of aircraft between Europe and the Asia/Pacific Region should be urgently discussed between all stakeholders (States and International Organisations) and that an Inter-Regional Afghanistan ATM Contingency Arrangements should be urgently developed.

Afghanistan shall develop and promulgate a State Contingency Plan (according to ICAO Annex 11) for implementation in the event of disruption, or potential disruption, of air traffic services and related supporting services in the airspace for which they are responsible for the provision of such services. Such a contingency plan shall be developed with the assistance of ICAO as necessary, in close coordination with the air traffic services authorities responsible for the provision of services in adjacent portions of airspace, the airspace users concerned and the International Organizations. The contingency plan should include contingency arrangements to be implemented in the event of natural disasters, military conflicts or public health emergencies.

To this extent, the Inter-regional Afghanistan ATM Contingency Arrangements do not replace the State Contingency Plan and eventually do not relieve Afghanistan from its responsibility of developing/updating a State Contingency Plan.

The alternative routes are based mainly on the existing route network. Concerned States, in consultation with airspace users, might establish temporary routes to be able to accommodate extra traffic in a safe manner.

The ICAO Asia Pacific Regional Office will be the owner of this Document and will coordinate with ICAO HQ and Cairo and Paris Regional Offices any amendment to the Contingency Arrangements.

Each ICAO Regional Office will distribute the Contingency Arrangements to all relevant States, IATA, and other International Organizations within their regions.

This Document is available to users through the ICAO Asia/Pacific (APAC) website (<http://www.icao.int/APAC/Pages/edocs.aspx>).

In order to maintain the effectiveness of the Contingency Arrangements, Stakeholders are encouraged to provide the ICAO APAC Regional Office with their comments/suggestions and updates.

Inter-regional Afghanistan ATM Contingency Focal Points

The list of the Inter-regional Afghanistan ATM Contingency Focal Points is at **Table 1**. This list should be reviewed and updated, as appropriate.

Table 1: INTER-REGIONAL AFGHANISTAN ATM Contingency Focal Points

NAMES	PHONE (WORK)	PHONE (HOME)	MOBILE PHONE	FAX	E-MAIL	OTHER CONTACT DETAILS
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Coordination Procedures

Implementation of the contingency measures

A Contingency Coordination Team (CCT) will be established from the following members:

- The focal points listed in Table 1; and
- Other States, Organizations, Agencies etc., when deemed necessary, as temporary members.

The main tasks of the CCT are as follows:

- monitor continuously information from all relevant sources;
- initiate action for the activation/deactivation of the Contingency Arrangements;
- arrange for the provision of relevant aeronautical information to the ICAO Regional Offices and Headquarters;
- liaise with international/regional organizations as appropriate;
- exchange up-to-date information with States directly concerned and States which are potential participants in contingency arrangements.

The notification/coordination process at **Table 2** should be used to facilitate the implementation of contingency arrangements.

In the event of adoption of contingency procedures States/Air Navigation Service Providers (ANSPs) will notify all affected agencies and operators appropriately.

Table 2: Notification/coordination process

Airspace Avoidance				
Airlines	Airline Actions	IATA Actions	ICAO APAC Office	States/ ANSP
Monitor global activities that have an effect on flight operations. (currently in place)	NONE	NONE	NONE	NONE
Review state activity that requires airline safety and security review (currently in place)	Notify IATA as to effected FIR' and factors under review. (security and or safety)	When more than (30%) of airlines reporting, notify ICAO APAC	Call for the Contingency Coordination Team (CCT)	NONE
Identify specific Factors and pending trigger events (currently in place)	inform IATA on review findings and possible trigger events	Inform CCT on findings and number of airlines reporting	Notify affected States/ANSP on number of airlines reviewing current activity	NONE
Event triggered: reviewing avoidance options and select avoidance scenario	Inform IATA of selected scenario and volume/initial timelines.	Inform CCT	Notify affected States/ANSP scenario and volume/timelines	Review scenario and give feedback on feasibility
48 Hours prior to activation of planned avoidance re-routes	Notify IATA	Notify CCT	Notify affected States/ANSP	Prepare NOTAMS and avoidance scenario
24 Hours prior to activation of planned avoidance re-routes	Notify IATA	Notify CCT	Notify affected States/ANSP	Publish NOTAMS

SCENARIO A

Degradation of Air Traffic Services

In case of degradation or potential disruption of ATS or related services within the Kabul FIR, the provisions of the Afghanistan State Contingency Plan apply. If these are not available the provisions as specified below might apply.

The ANSP responsible for providing ATS within Afghanistan/Kabul FIR will decide upon the level of notification necessary and take action as required to disseminate the information.

If the degradation of ANS in the Kabul FIR results in a situation whereby no ATS are provided, then the airspace classification automatically becomes by definition Class F (uncontrolled, advisory) or Class G (uncontrolled). In this case airspace users must be aware that State/military aircraft may continue their operations within the Kabul FIR.

Airspace users are responsible to make their own risk assessment to determine whether or not they would utilise the Kabul FIR.

In the event that limited or even no ATS are available within the Kabul FIR and the State Contingency Plan is not implemented, the following contingency procedures/measures, as presented by IATA, might be considered by the concerned States:

- The following ATS routes are available, at and above FL 310, bi-directional (refer **Figure 1**):
 - FIRUS – P500 – PADDY (12 NM ATS route portion delegated to Dushanbe ACC)
 - SOKAM UL333 SERKA
 - CHARN P628 ASLUM
 - RANAH L750 ROSIE
 - LEMOD N644 PAVLO
 - AMDAR M875 TAPIS L509 LAJAK

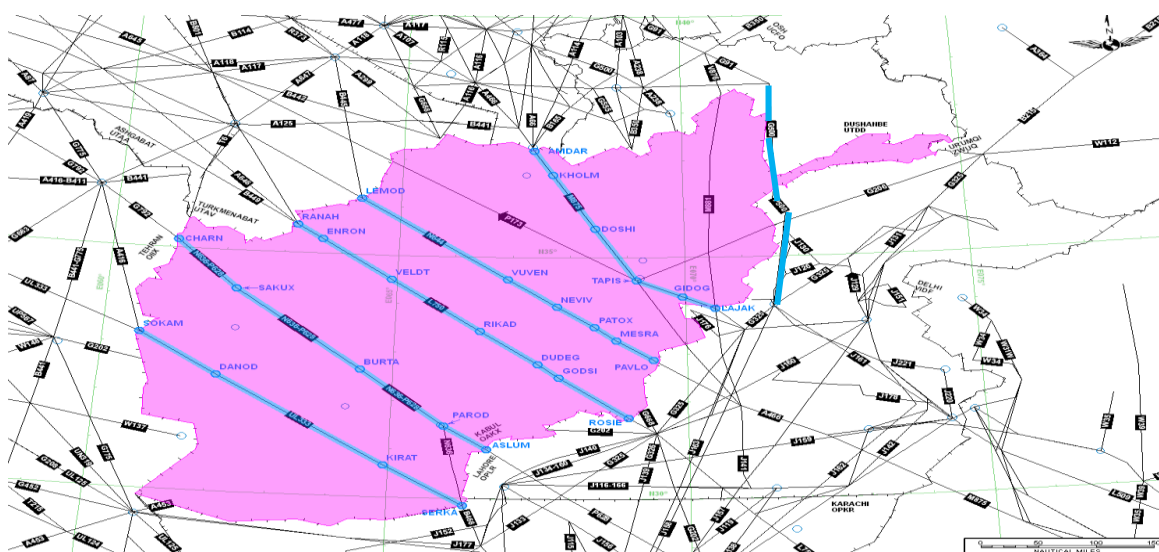


Figure 1: Kabul FIR Upper Airspace ATS Routes

- All other ATS routes will be closed
- All available tracks are laterally separated by a minimum of 50 NM to avoid altitude coordination or Flight Level Allocation requirements. Altitudes are assigned based on proper altitude for direction of flight (even Flight Levels for Westbound flights, odd Flight Levels for Eastbound flights.)
- **ATC / ATFM Coordination**
 - The ATFM function will need to inform operators and ACCs of times, route and altitudes to be met.
 - The upstream ACC adjacent to Kabul FIR will need to provide an ATC coordination estimate to the downstream (receiving) ACC to include Aircraft identification, type, Mach, origin, route, destination, estimated time at a boundary waypoint that will have been agreed, flight level. This coordination will be carried out via dedicated recorded voice line or other agreed recorded methods.
- **ATFM Procedure:**
 - BOBCAT (for westbound flights) & NMOC (for eastbound flights) provide flow metering to 15 minutes in trail per flight level per track.
 - Upstream ACCs, aircraft operators and flight crews are made aware of the Required Time of Arrival at the metering point and ensure that the times and levels are respected.
- **ATC Procedure for the ACC delivering traffic:**
 - Assigns Airspeed to aircraft based on aircraft performance as to maintain required longitudinal spacing and appropriate FL
 - Ensures that the aircraft has been cleared on the airway(s) as planned by the ATFM function
 - Ensures minimum longitudinal spacing of 15 minutes between aircraft on the same track at the same Flight Level
 - Informs the receiving ACC of inbound traffic and provides an inbound boundary waypoint estimate
 - Instructs the aircraft to contact the receiving ACC as per agreement.
- **NAV**
 - Aircraft operate along required airways using RNAV 10 or better.
- **COM**
 - The upstream ACC will instruct the aircraft to contact the receiving ACC via VHF voice radio at a point that will have been coordinated between the concerned ACCs, corresponding to the point at which the aircraft enters VHF radio coverage.
 - The aircraft will monitor 121.5 and an agreed-upon air to air frequency (123.45?).
 - The aircraft will broadcast the following message :
 - *ALL STATIONS*
 - *THIS IS [CALLSIGN] IN THE KABUL FIR*
 - *FL ...*
 - *[WESTBOUND | EASTBOUND] ON [AIRWAY]*
 - *ESTIMATING [WAYPOINT] AT [UTC TIME]*
 - *[CALLSIGN]*
 - *FL ...*

- *IN THE KABUL FIR*
- in the English language on the agreed-upon air-air VHF radio frequency at the following times:
 - 10 minutes prior to entering the Kabul FIR
 - 10 minutes prior to crossing a waypoint within the Kabul FIR
 - At not less than 20 minute intervals
 - At any other time considered necessary by the pilot
- Consideration should be given to the following:
 - Using air-ground satellite voice for supplementary or emergency air-ground communications.
 - Using CPDLC to an ATC agency that has agreed to provide a coordination service.
- **In-Flight Contingencies**
 - In case of a non-critical in-flight emergency, the aircraft would proceed as cleared until leaving the Kabul FIR.
 - In case of a critical in-flight emergency (de-pressurization, etc.), aircraft would follow ICAO emergency descent procedures and proceed at the discretion of the pilot in command.
 - In case of a medical emergency the aircraft would proceed as cleared until leaving the Kabul FIR.
 - Consideration should be given to the mandatory use of ACAS.

SCENARIO B

Delegation of Air Traffic Services

The AHACG/2 meeting had discussed the possibility of Air Navigation Services (ANS) delegation by Afghanistan to another State.

The delegation may provide full or partial Air Traffic Services (ATS) within the whole or part of the Kabul Flight Information Region (FIR). The delegation of responsibility for ANS (especially ATS) within the upper airspace of Afghanistan to neighbouring countries was presented as an alternative option to the circumnavigation of the Kabul FIR.

It was possible that, after suitable training, Afghan controllers could provide an ATS from the State providing delegated services, so that the ANS was no longer delegated. In this case, there would be a significant benefit in terms of the service being provided from a potentially more secure site than Kabul, with more than one ACC capable of providing services within the Kabul ACC for contingency.

SCENARIO C

Circumnavigation of Kabul FIR

If the degradation of ANS in the Kabul FIR results in a situation whereby no ATC services are provided, then the airspace classification automatically becomes by definition Class F (uncontrolled, advisory) or Class G (uncontrolled). In this case, with the potential presence of military aircraft operations and a potential lack of information on airspace safety/security issues, airlines may elect to avoid the Kabul FIR.

As the Tehran FIR was already at capacity at times, additional measures were needed to be available to respond to traffic that would divert south of Afghanistan on the Tehran-Karachi FIR axis, in addition to that which would divert north of the Himalayas using ATS route P500 and via China (L888, or other routes).

The current Organised Track Systems (OTS) utilised by Iran should be extended into the Karachi FIR as follows:

- a) Flight Level Allocation Scheme (FLAS) for **westbound** flight levels: FL300, FL340 and FL360;
- b) FLAS for **eastbound** flight levels: FL310, FL350 and FL370;
- c) merging procedures for traffic departing airports within the Tehran and Karachi FIRs so aircraft can join the OTS routes, preferably climbing to a level below the OTS FLAS, and then being vectored or delayed before safely merging (the sequence would need to be coordinated with the next State unless such traffic was accounted for in the traffic metering system);
- d) FLAS for **westbound** traffic crossing the Royal Road OTS of FL320 (or FL280 and below, or FL380 or above);
- e) FLAS for **eastbound** traffic crossing the Royal Road OTS of FL330 (or FL290 and below, or FL390 or above)

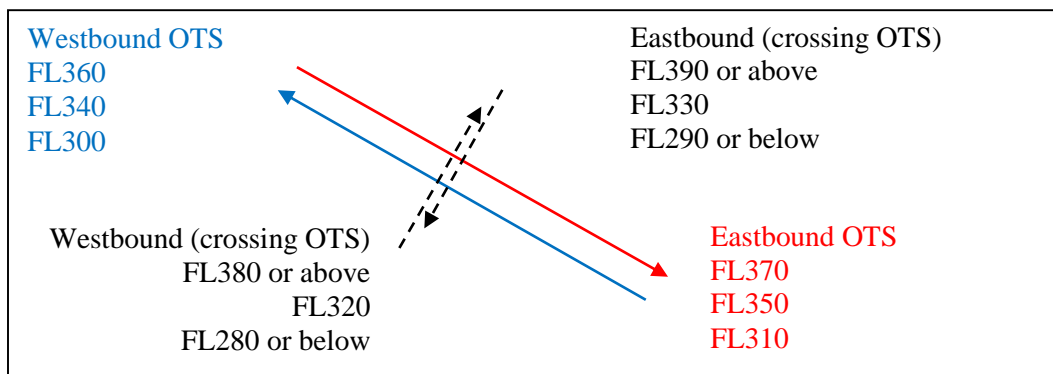


Figure 2: Royal Road OTS FLAS

The agreed OTS within the Tehran and Karachi FIR was as **Figure 3:**

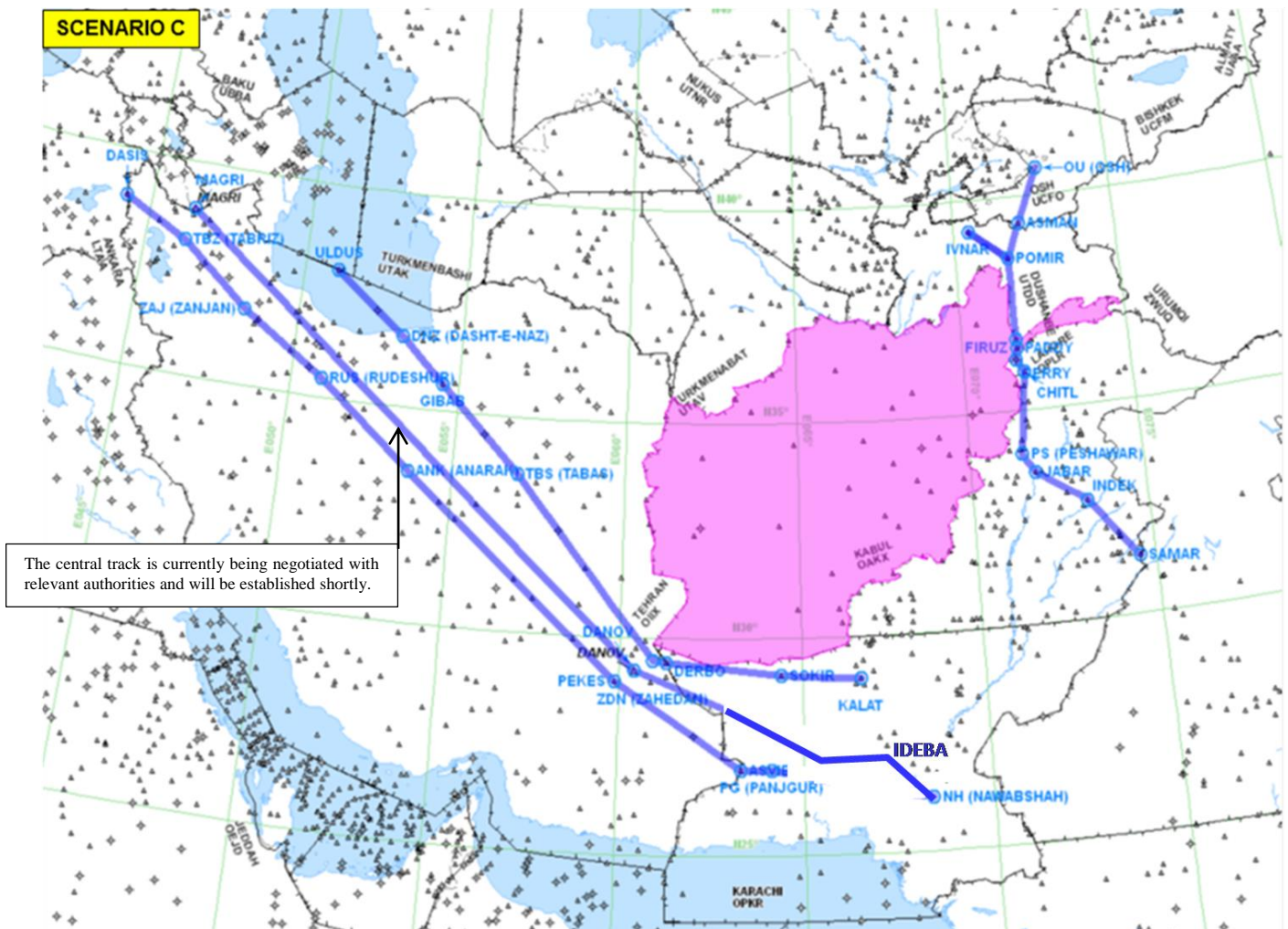


Figure 3: Circumnavigation routes including Extended Royal Road OTS

Other measures

During times of uncertainty when airspace closures/circumnavigation seem possible, aircraft operators should be prepared for a possible change in routing while en-route, familiarization of the alternative routes outlined in the contingency arrangements as well as what may be promulgated by a State via aeronautical publication.

ATC should be alert to respond to any request by aircraft and react commensurate with safety.

During the contingency operations, States concerned should take necessary measures to grant special over flight permissions to those flights avoiding the affected Airspace(s).

- END -

Table 1: INTER-REGIONAL AFGHANISTAN ATM Contingency Focal Points

NAMES	PHONE (WORK)	PHONE (HOME)	MOBILE PHONE	FAX	E-MAIL	OTHER CONTACT DETAILS
AFGHANISTAN						
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IRAN						
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KYRGYSTAN						
OMAN						
PAKISTAN						
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TAJIKISTAN						
TURKEY						
TURKMENISTAN						
AFCENT / USA						
Mr. Mark Reeves	+65 6476-9320	+65 6235-2254	+65 8282-3072	+65 6476-9458	Mark.Reeves@faa.gov	
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ICAO APAC						
Mr. Leonard Wicks (RO ATM)	662 537 8189 ext 152				lwicks@icao.int	
ICAO EUR/NAT						
Mr. Sven Halle (RO/ATM)	+33 (1) 46 41 85 85			+33 (1) 46 41 85 00	shalle@icao.int	
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Mr. Elie El Khoury (RO ATM/SAR)	202 267 4845 ext 104		+201025133360	202 267 4843	ekhoury@icao.int icaomid@icao.int	
ICAO Headquarters						
Mr. Chris Dalton (C/AMO)	1514 954-6711	1 514 281-0731	1 514 951-0283	1-514-954 8197	cdalton@icao.int	
NATO						
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East Asia and North Pacific ATM Contingency Focal Points

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RUSSIAN FEDERATION						

ATM/SG/8 – WP/24
Attachment D

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Mr. Michael W. Watkins	+65 6476 9462		+65 9228 2612		michael.w.watkins@faa.gov	
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