

## NACC Aviation Accident and Incident Investigation (AIG) Turnkey Project Session 2

#### Fernando Camargo

Regional Officer, Technical Assistance







## Objective

To assist Caribbean and Central American States in the area of AIG by:

- a) Building/enhancing national capacity in accident and incident investigation;
- b) Enabling the establishment/consolidation of Investigation Cooperative Mechanisms (ICMs); and
- c) Enabling the future adoption of a RAIO approach



## Agenda

- ★Understanding and drafting models of the processes and measures required in AIG
- ★Understanding and drafting models of the systems required in AIG
- ★Identifying and drafting the organization/structure of the means required in AIG



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## **AIG Processes and Measures**

- ★ Sufficient financial resources
- ★ Sufficient personnel
- ★ Relieve seconded experts from their regular duties
- ★Avoid possible conflicts of interest
- ★Initial response following the receipt of a notification



## **AIG Processes and Measures**

- ★ Determine the extent of an accident investigation
- ★Investigating serious incidents
- ★Determine which types of incidents will be investigated by the investigation authority
- ★Ensure that a draft Final Report is not disclosed to the public



## **Sufficient financial resources**

6.105 Has the State established and implemented a process to ensure that the accident investigation authority has sufficient financial resources to investigate accidents and serious incidents?

Key elements:

- 1. Established and implemented
- 2. Process to ensure
- 3. Sufficient

### 1. Established and implemented

Requires evidence of a dedicated budget commensurate with the activity of the aviation within the State (that includes foreign airline activities)

#### 2. Process to ensure

It is not about having a budget today, but having a process that will <u>ensure</u> that every year the accident investigation authority will have funds to carry out <u>all</u> estimated\* investigations

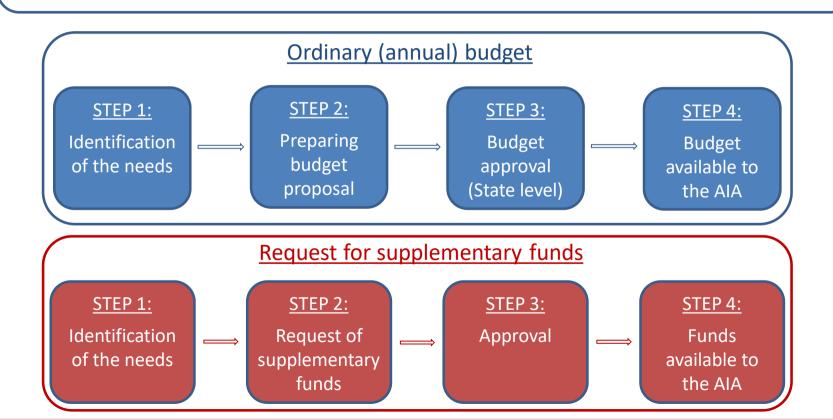
In addition, the process needs to provide the pathways to access supplementary funding whenever necessary (cases of major/complex investigation)

\* Investigations cannot be predicted, but can be estimated using historical information

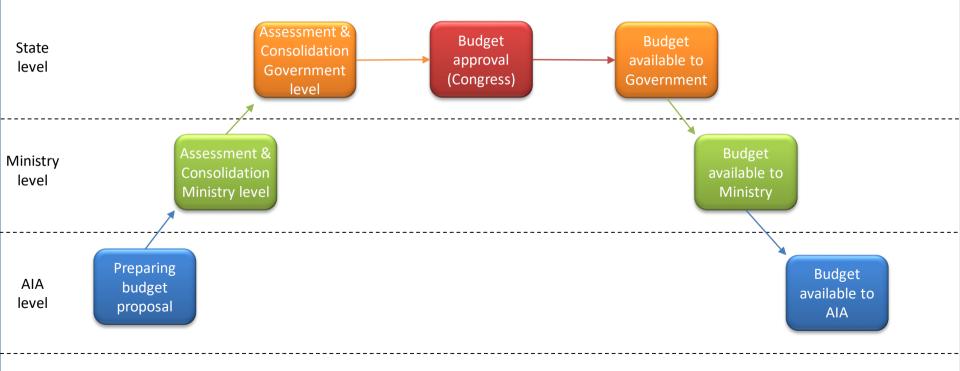
### 3. Sufficient

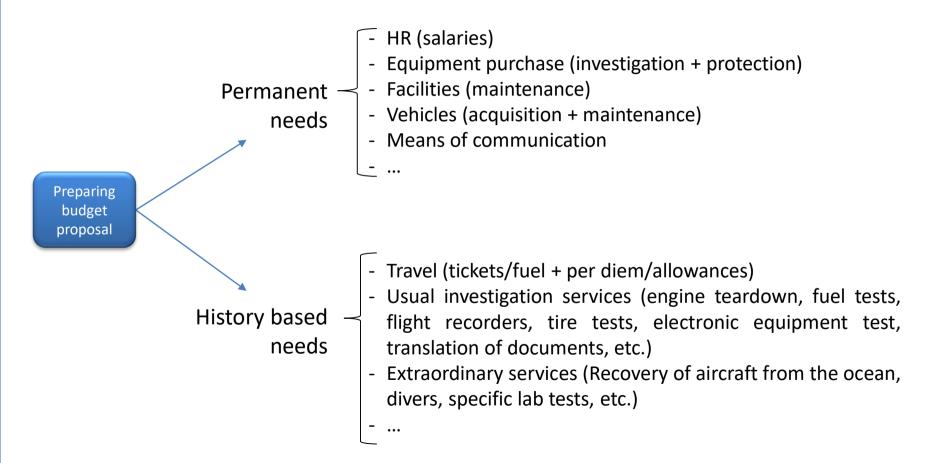
To determine how much would be sufficient the process needs to consider the history of investigations within the State, as well as the requirements for the investigations to occur (i.e. sufficient and qualified human resources, equipment, means of transportation, hiring of services, etc.)

\* Investigations cannot be predicted, but can be estimated using historical information



#### **EXAMPLE OF ORDINARY NATIONAL BUDGET PROCESS**





Preparing budget proposal

- Internal procedure (of the AIA or the Ministry/Secretary under which the AIA is placed)
- <sup>-</sup> In accordance with a calendar
- Some States adopt an electronic system to process the budget proposal
- <sup>-</sup> The proposal is submitted upwards

- Usually, the AIA budget will be part of the government's body under which it has been positioned
- When adjusts are required at the Ministry level and cuts in the proposal are deemed necessary by Government, the AIA must be called to detailed expose its needs and challenge to avoid the cuts before any decision is made, or at least manage the impacted budget areas
- At any situation, the State is required to ensure that the minimum/necessary budget to support the investigations is granted

Assessment & Consolidation Ministry level

Assessment & Consolidation Government level

- Cuts at this level are not usual (since everything is usually handled at the Ministerial level)
- Anyway, if there is any contingency affecting the budget proposal, the AIA must be able to timely expose its needs and challenge to avoid the cuts before any decision is made, or at least manage the impacted budget areas
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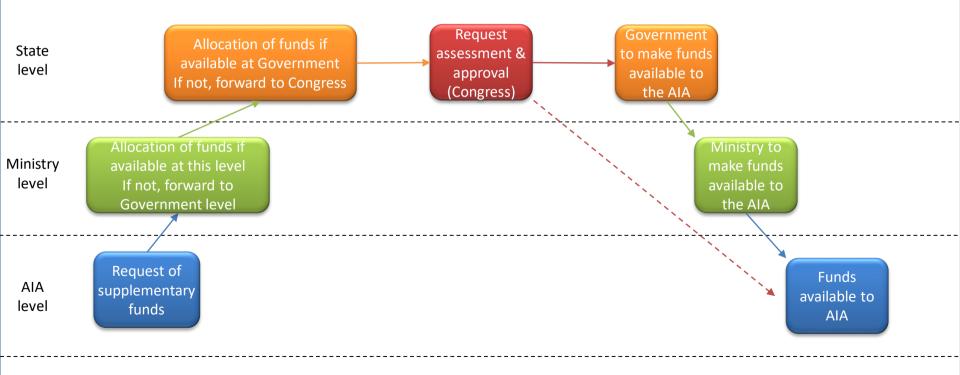
Budget approval (Congress)

Budget available to the AIA

- The pathway for the budget to become available to the AIA will depend on the level of bureaucracy of the State
- Usually, the budget follows the same stops make at the proposal part of the process

At any situation, the State is required to ensure the availability of funds to support the investigations along the budget approval process

#### **SUPPLEMENTARY FUNDS REQUEST PROCESS**



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To request additional funds for a major accident case, a process that already exists in the country for dealing with calamity or emergency situations will normally be used.

In many States, an emergency fund already exists at the disposal of the Minister and/or the President, which can be accessed more quickly

If this is not possible, there is always a way to ask Congress to change the national budget, allocating additional resources for research (this is normally the longest way)

#### **SUPPLEMENTARY FUNDS REQUEST PROCESS**

In all cases, it is important that the investigating authority knows what procedures to follow in order to request additional funds from the appropriate authority.

It is necessary to compile all national legislation applicable to each possibility

- Emergency fund at Ministry level
- Emergency fund at President level
- Request of supplementary funds to the Congress

Based on the existing legislation/processes, it may be necessary to develop an internal procedure to begin the request for funding



## **Sufficient personnel**

6.113 Has the State implemented a mechanism to ensure that the accident investigation authority has sufficient personnel to meet its national and international obligations related to aircraft accident investigations?

### Key elements:

- 1. Mechanism to ensure
- 2. Sufficient personnel
- 3. Obligations

### 1. Mechanism to ensure

In any situation where the authority doesn't have sufficient personnel, the State will be considered not compliant with this requirement

The mechanism includes:

- The accurate identification of the number of people necessary
- The appropriate process for hiring the necessary personnel
- The offer of relevant benefits to maintain the staff

The mechanism is linked with other processes like: budget, HR related legislation, organization manual (with job descriptions, qualification and experience for each position) etc.

### 2. Sufficient personnel

The number of staff required will be identify by assessing the historical workload

Staff may be divided into categories, depending on the structure of the organization (e.g. investigators, technical experts, administrative staff, etc.) The workload to be assessed is related to the execution and support to all the obligations of the authority

This process needs to be carried out periodically, to ensure that the available staff remains adequate to the level of activities of the authority

### 3. Obligations

This will include:

- The investigations to be carried out
- The training necessary to have current and qualified investigators
- Processing of notifications, draft reports, recommendations and other documents/requests received
- Rulemaking/amendment processes
- Formulation and revision of procedures and guidance
- Establishment and maintenance of the occurrences database

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- Processing of notifications, draft reports, recommendations and other documents/requests received
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- Formulation and revision of procedures and guidance
- Establishment and maintenance of the occurrences database
- Vacation and sick leave
- Around a 20% of "free time" to address non planned requests

First thing to do is to create the tool to measure the workload (a MS Excel spreadsheet will be enough) addressing separately each category of employee

- List the activities required to be carried out

...

- Identify among the investigations carried out in the last 5 years the average duration of the investigations
- Take from the Training Programme the information regarding the yearly involvement of each person in training
- Assess the average time allocated to processing notifications, recommendations, draft final reports, contacting operators and the CAA to gather information to support investigations (e.g. information on the a/c, crew, dangerous goods, maintenance, etc.)

First thing to do is to create the tool to measure the workload (a MS Excel spreadsheet will be enough) addressing separately each category of employee

- List the activities required to be carried out
  - ...
- Add vacation and sick leave
- Add around a 20% of "free time" to address non planned requests (you may name it as "other tasks not listed"

IMPORTANT: After identifying all the main activities of the organization, you will need to ensure that they are well distributed among the different positions/categories available in the organization, and that distribution needs to be reflected in the appropriate document (something like an Organization Manual, Administrative Manual, HR Manual, etc.) that contains the description of all the positions that form the authority, with the functions and responsibilities, as well as the requirements of qualification and experience related to each position

The tool (spreadsheet) will show as a result the number of persons necessary for each category (if fractioned, that number must be rounded up) That final number will be confronted with the existing personnel and the gap shall be object of a hiring process

The requirement is not finished at this point!!!

Remember that the mechanism needs to ensure that you have sufficient personnel. That means: hiring and maintaining If the hiring of necessary staff is not effective, the mechanism is not ensuring sufficient staff If the organization has high staff turnover, the mechanism is not being efficient

either

Remember that **the mechanism needs to ensure** that you have sufficient personnel That means: hiring and maintaining

- If the hiring of necessary staff is not effective, the mechanism is not ensuring sufficient staff
- If the organization has high staff turnover, the mechanism is not being efficient either

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4	A		U	C D E F G H Civil Aviation Authority of Coronaland Accident Investigation Section HR Workload Spreadsheet				
3 4			APLICABILITY Technical staff	HOURS TAKEN BY INDIVIDUAL PROCESSES	TOTAL HOURS PER STAFF 1166			
5			Administrative staff All staff	72 1034	1106			
8		PROCESS	SUB PROCESS	ТАЅК	AVERAGE HOURS PER TASK	AVERAGE NUMBER OF EXECUTIONS PER YEAR	TOTAL HOURS OF ACTIVITY PER YEAR	TOTAL HOUR BY PROCESS PER YEAR
,	1			Administrative mandatory training	4	4	16	
,	2			Administrative meetings	2	12	24	540,00
1	3		Administrative activities	All staff meeting	3	12	36	
2	4	ADMINISTRATIVE		Financial processes (travel claims, medical claims, etc.)	4	18	72	
3	5	-		HR processes	3	24	72	
ŧ	6			Annual leave	240	1	240	
5	7			Sickleave	8	10	80	
3	8		Technical training activities (Rear for the training perpendicular training of the training perpendicular or training of the training Administrative training	Recurrent training	32	0,5	16	
,	9			Especialized/Advanced training	40	0,5	20	
,	10	1		OJTs localedus the training activity property, which is already considered among the investigation activities?	80	0,5	40	116,00
,	11			Provision of training (winstructur, including G/7)	80	80 0,5 40	40	72,00
,	12	TRAINING		Administrative processes and systems training	24	2 48	48	
1	13			Recurrent training	24	1	24	
2	14		Feedback on training received	Feedback on training provided internally	1	18	18	30,00
3	15		(Sharing af knawledge)	Feedback on training provided by other sources	1	12	12	
4	16		Other trainings	Other trainings	16	1	16	16,00
5	17	CONTINGENCIES AND	CONTINGENCIES	Contingencies	32	1	32	
6	18	UNPLANNED ACTIVITIES	UNPLANNED ACTIVITIES	Unplanned activities	24	18	432	464,00
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# Workload Tool Exercise



# Relieve seconded experts from their regular duties

6.133 If the State has arrangements to use experts seconded by the State's CAA or other organizations in the State as investigators, has it established and implemented measures to relieve these experts from their regular duties during the investigation?

NOTE The ICAO reference regarding Doc 9756 Part I is not accurate. **ICAO References** GM Doc 9756 Part I 2.4. It should be (2.5.1) instead

Key elements:

- 1. If
- 2. Use experts as investigators
- 3. Measures
- 4. Relieve from regular duties

lf:

This conditional implies that the PQ might be not applicable for the States that have their own personnel (and doesn't need secondment)

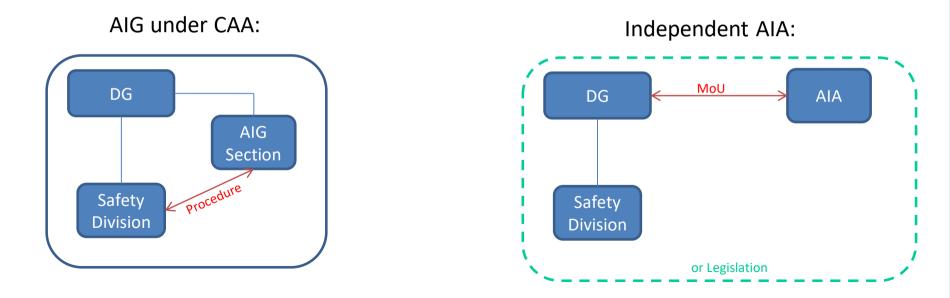
Use experts as investigators:

In theory, the requirement doesn't reach the cases where an expert is participating in the investigation just as an expert (not an investigator)

This does not preclude the possibility of having an agreement to also relieve an expert while dedicated to supporting an investigation

Measures:

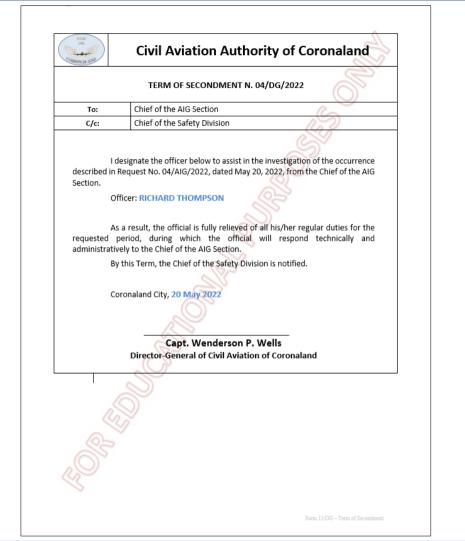
Any <u>effective</u> means adopted by the State (e.g. procedure, MoU, legislation, etc.)



Regardless of the structure of the AIA, it is essential:

- A provision that binds both the CAA and the AIG entity, ensuring the release of the expert to be seconded (i.e. legislation, MOU, or procedure)
- A formal request for secondment, mentioning the period for which the expert must dedicate him/herself fully to the investigation (and therefore be released from his/her regular duties)
- A formal approval and secondment with the release from regular duties

Company New	Civil Aviation Authority of Coronaland Accident Investigation Section (AIG)			
R	equest N. 04/AIG/2022 - Request for Secondment of Inspector			
To:	Chief of the Safety Division			
Cc:	Secretary of the Director-General			
Subject:	Request for Secondment of Inspector			
eference: Section 12, b, of the Memorandum 032/2016/DG, Technical support to the safety investigations carried out by the AIG Section				
A- Term of Secondment B- Term of Confidentiality C- Declaration of Absence of Conflict of Interest				
	Dear Chief,			
<ul> <li>Occurrent</li> </ul>	ce type: Accident			
<ul> <li>Aircraft(s)</li> <li>Expert rec</li> <li>Secondment</li> <li>In added</li> <li>With both the Conflict of Int</li> <li>Final</li> </ul>	involved:       17/05/2022         involved:       CN-9734-JT         quested:       RICHARD THOMPSOM         ent Period:       From: 23/05/2022 to: 27/05/2022         ly remind you that this secondment needs to be approved through the Term of attached, as per MEMO 032.         dition, I would like to request that the secondee report for duty at this Section         e Term of Confidentiality (Attachement B) and the Declaration of Absence of erest (Attachement C) duly completed and signed.         y, Lanticipate that the expert will probably be required to participate in further			
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# **Expert Secondment**





## Avoid possible conflicts of interest

6.135 If the State uses experts seconded by the State's CAA or other organizations in the State as investigators, has it established and implemented measures to avoid possible conflicts of interest?

Key elements:

# Avoid Possible conflicts of interest

### Avoid:

Defenses must be put in place to avoid conflicts of interest Although the requirement mentions "avoid," conflicts of interest that arise during the investigation must also be mitigated

## Possible conflicts of interest:

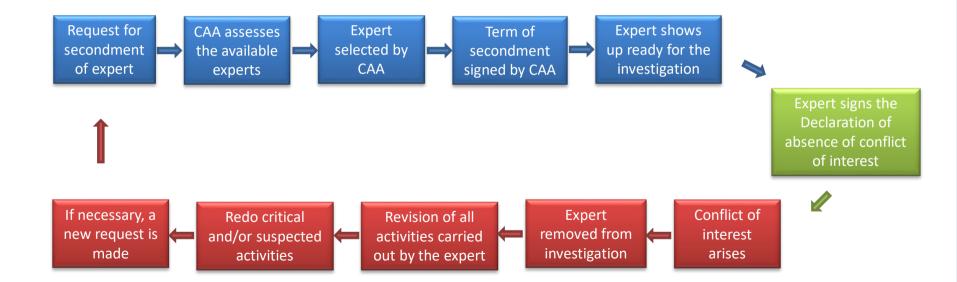
- The greatest potential for conflict of interest in the investigation is related to the surveillance processes conducted by the CAA
- Therefore, it is necessary to make a prior assessment of such processes in relation to the aircraft, the crew and the operator
- Other types of conflict that may involve direct or indirect relationships: of kinship, close social, commercials, professionals, etc.

**Defences:** 

- Assessment on behalf of the CAA on any previous participation of the expert to be seconded in any surveillance process related to any element (crew, aircraft, ATS, maintenance, etc.) involved in the occurrence
- Term of absence of conflict of interest to be signed by the expert

Mitigation:

- Immediate removal of the expert from any activity related to the investigation, collecting all material in his/her possession, as well as any credential or accreditation provided
- Review of any action taken by the expert in the investigation
- Redo, if possible, any and all examinations, tests and analyses made by the expert, in order to guarantee the integrity of the investigation.





#### Civil Aviation Authority of Coronaland

Accident Investigation Section (AIG)

DECLARATION OF ABSENCE OF CONFLICT OF INTEREST /

Occurrence type:	Accident	Occurrence date:	17/05/2022	
Aircraft(s) involved:	CN-9734-JT	Term of Secondment:	04/DG/2022	

I, the undersigned **RICHARD THOMPSON**, being seconded to support the AIG Section in the investigation of the above-mentioned occurrence, hereby solemnly declare that I am not and shall not be in any situation which could give rise to a conflict of interest in what concerns the activities to be carried out by myself and the functions under my responsibility while supporting such investigation.

I undertake to act with complete impartiality and in good faith with respect to this investigation and to promptly report to the AIG Section and the Director-General, in writing, any situation that may raise concerns regarding a conflict of interest, impartiality or my ability to properly execute the investigation-related activities assigned to me.

Coronaland City, 20 May 2022

RICHARD THOMPSON

Form 13/AIG - Declaration of Absence of Conflict of Interest

# Conflict of Interest Exercise



# Initial response following the receipt of a notification

6.316 Has the State established procedures and guidance, including a checklist, for the initial response following the receipt of a notification?

6.316 Has the State established procedures and guidance, including a checklist, for the initial response following the receipt of a notification?

#### Within the State

(i.e. being State of Occurrence)

Decide on the institution of an investigation

- If yes:
  - Designate the investigator-in-charge (IIC)
  - Request info from operator, service provider, CAA, maintenance organization, etc.
  - Apply process to investigate the type of occurrence (PQ 6.343)
  - Register the occurrence in the database
- If not:
- Register the occurrence in the database Prepare notification to other States and ICAO if applicable

#### From other State

(State of Registry, Operator, Design, or Manufacture)

To the State that sends the notification:

Acknowledge receipt

To the State of the Occurrence:

- Provide relevant information regarding the aircraft and flight crew
- Inform whether it intends to appoint an accredited representative
- Provide details of dangerous goods on board the aircraft (if State of the Operator)

6.316 Has the State established procedures and guidance, including a checklist, for the initial response following the receipt of a notification?

- Procedures will be seen in Session 3 of the Project
- Guidance shall be developed based on the procedures



# Determine the extent of an accident investigation

6.343 Has the State established and implemented policies, procedures and guidelines to help determine the extent of an accident investigation (including the scope of the investigation and whether or not investigators will be deployed on site), depending on the circumstances of the accident and the safety lessons that it expects to draw from the investigation?

Key elements:

- 1. Policies
- 2. Extent
- 3. Circumstances
- 4. Safety lessons

**Policies:** 

## A policy is a declaration of intent

### Extent:

The extent of an investigation means how wide, how far and how deep you will go with the investigation, and that will depend on the circumstances of the occurrence

In some situations, the determination of the extent can be predetermined (e.g. accidents caused by illegal interference, accidents with non-certified aircrafts, accidents caused by non-qualified person, etc. Other situations will require assessment during the investigation Guidance has to be provided for both cases.

### **Circumstances:**

Accidents may be grouped according to certain criteria, as: type of operation, category of aircraft, injury level, damage, social repercussion, involvement of other States, presence of illegal activity, etc.

Circumstances will help determine these criteria

Different approaches will address each of the criteria



## Example of accident investigation





## **Accident investigation process**

- ★Activities may be more or less complex depending on the characteristics of the accident (or incident)
- ★The investigation process must be planned in a way to assist the IIC in carrying out the activities at the level of complexity required by the investigation

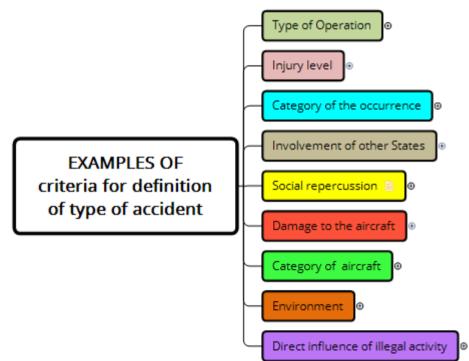


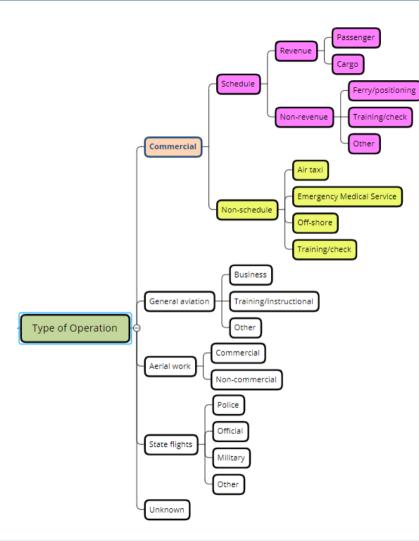
## **Accident investigation process**

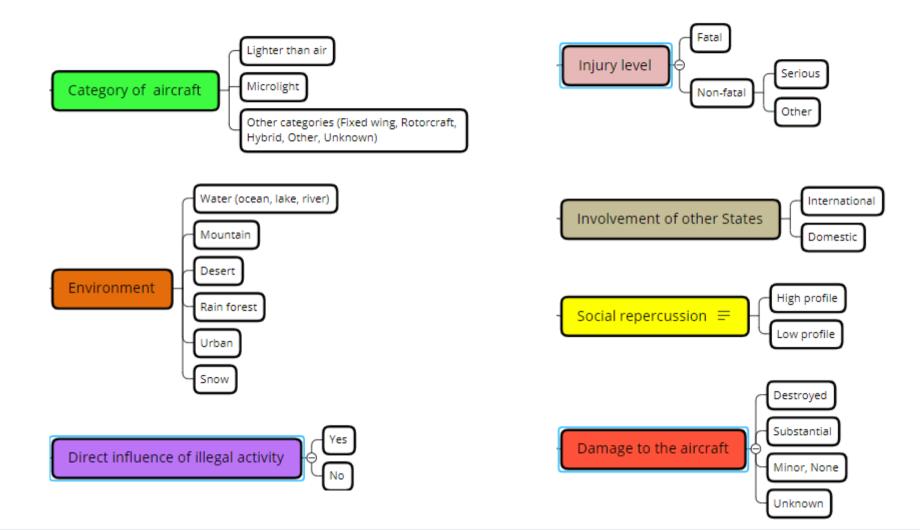
- ★ The process should offer different routines for each activity whose degree of complexity varies according to the circumstances of the accident, like:
  - ★ The appointment of a IIC only, or a large team
  - $\bigstar$  Going or not to the crash site
  - ★Interaction with other entities
  - **⊀**Etc.



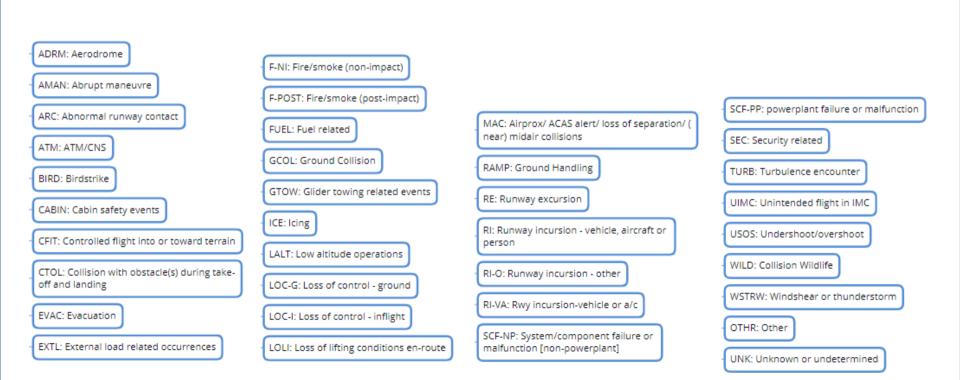
## **Selecting relevant criteria**







Category of the occurrence





## **Fictitious Scenario - Coronaland**

★Relevant aspects/circumstances for Coronaland:

★ Type of operation

★Injury level

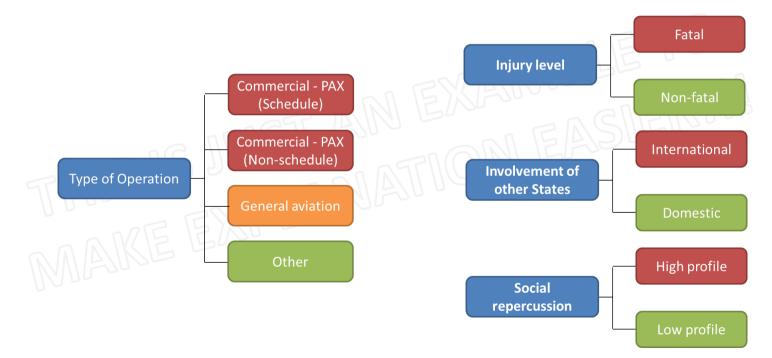
- ★ Involvement of other States
- ★ Social repercussion



## Fictitious Scenario - Coronaland THIS IS JUST AN EXAMPLE 1 ★Relevant aspects/circums MAKE EXPLANATION EASIER!!! ★ Type of operation

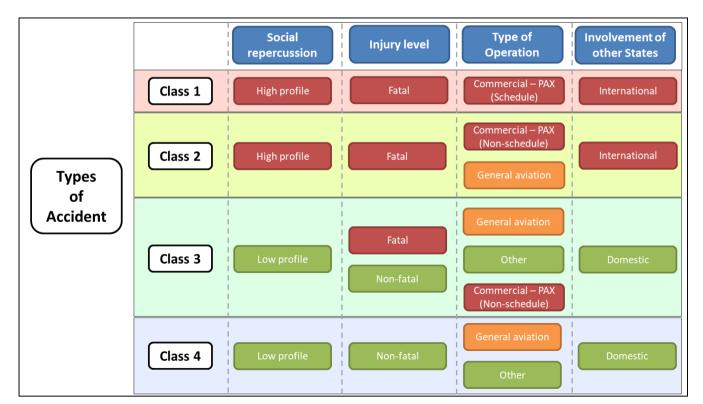


#### **Relevant aspects/circumstances for Coronaland**





#### **Forming classes of accidents**





## Framework for the investigation process

★Create a plan of investigation covering:

- ★ The main aspects of the investigation
- ★The different approaches for each "Class" (group, type) of accident
- ★Develop procedures and guidance to cover all the activities mentioned in your plan



## Aspects to be planned\*

★Response to a received notification:

- **⊀IIC** only X Investigation Team
- ★ Sending investigators to actions on site
- ★ Parallel support activities from the State's AIG office
- ★ Special needs due to environment



## Aspects to be planned

★Interaction with other stakeholders

- ★ Other investigations (e.g. Police, Justice, CAA)
- $\bigstar$  Victims and families
- **★**Press



## Aspects to be planned

★Examination of parts and components
 ★Arrangements with laboratories, workshops, etc.
 ★When not to readout flight recorders



#### Aspects to be planned

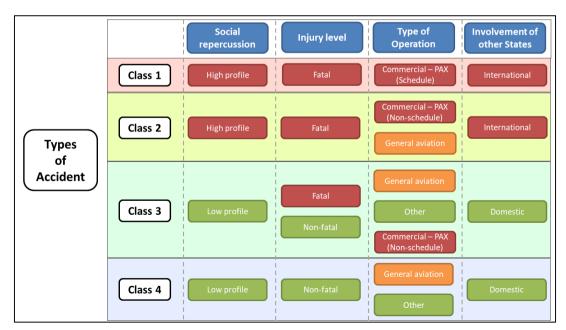
★Reporting
★Types of report
★Formats of report

## Process of Investigation of Accidents Exercise

## Process of Investigation of Accidents Exercise

- Establishment of categories
- Activities
- Investigation team
- Report

	Notifying other States and ICAO	Designate an IIC or a Team	Deploy to the site or not	Flight recorders	Autopsies	Take parts for tests	Public hearings	Meeting with families and victims	Certificat. from CAA	Coord. with other authorities	Draft final report	Final report	ADREP accident report
Class 1	х	Т	Y	Y	Y	Possible	Υ	Y	Y	Y	Y	Y	Y
Class 2	х	т	Y	Y	Y	Possible	Y	Possible	Y	Y	Y	Y	Y
Class 3		I.	Y	Possible	Possible	Possible	Ν	Ν	Possible	Possible	Ν	Y	Y
Class 4		I	Only when necessary	Ν	N	Ν	Ν	Ν	N	Ν	Ν	Y	Y





## **Investigating serious incidents**

6.345 Has the State established and implemented:
a) a process for investigating serious incidents, as well as
b) a process, based on risk analysis, to help determine which types of incidents will be investigated by the investigation authority, in conformance with Annex 13?

6.345 Has the State established and implemented:
a) a process for investigating serious incidents, as well as
b) a process, based on risk analysis, to help determine which types of incidents will be investigated by the investigation authority, in conformance with Annex 13?

For "a)":

- We will be basically applying the same approach (grouping into criteria) to serious incidents and do the same work done with PQ 6.343
- Depending on the complexity of the aviation system of the State, serious incidents may be considered one only category

6.345 Has the State established and implemented:
a) a process for investigating serious incidents, as well as
b) a process, based on risk analysis, to help determine which types of incidents will be investigated by the investigation authority, in conformance with Annex 13?

For "b)":

- Risk analysis: for certain types of incident, the AIA should establish the use of a safety analysis tool to assess the risk associated with the incident and make a determination on the institution of an investigation or not
- Several models of risk analysis available

#### **Risk severity**

		Catastrophic A	Hazardous B	Major C	Minor D	Negligible E
Risk probability	Frequent 5	5A	5B	5C	5D	5E
	Occasional 4	4A	4B	4C	4D	4E
	Remote 3	3A	3B	3C	3D	ЗE
	Improbable 2	2A	2B	2C	2D	2E
	Extremely improbable 1	1A	1B	1C	1D	1E



## Ensure that a draft Final Report is not disclosed to the public

6.417 Has the State, when issuing or receiving a draft Final Report, established and implemented measures to ensure that it is not disclosed to the public?

6.417 Has the State, when issuing or receiving a draft Final Report, established and implemented measures to ensure that it is not disclosed to the public?

#### Issued by the State

Measures include (*since the preparation of the draft*):

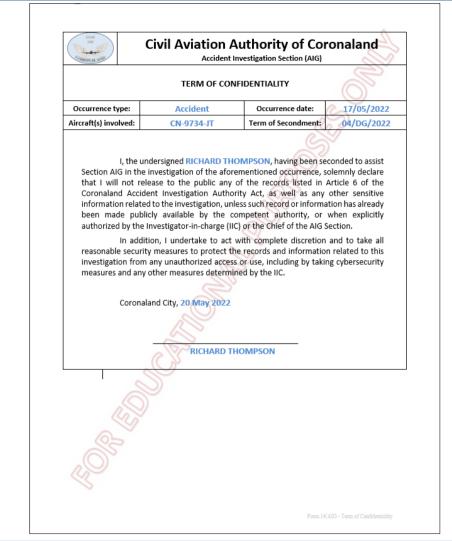
- Initial and recurrent briefings with the team regarding the importance of adopting safety measures to protect information
- Adopt a strict control of access to the investigation registries:
  - Use of safes and locked rooms to keep investigation information
  - Use of a reserved room to meet with the team
  - Term of Confidentiality to be signed by all team members
- The adoption of strict rules regarding cybersecurity, like:
  - The use of segregated intranet to work in the investigation
  - The use of secure FTP to send/receive files
  - Updated professional antivirus
  - Avoid the exchange of pen drives
- Destroy preliminary versions of the draft

6.417 Has the State, when issuing or receiving a draft Final Report, established and implemented measures to ensure that it is not disclosed to the public?

#### Received from other State

In this case, the AIA will probably have to share the draft (or parts of it) with the operator and/or manufacturer, thus the measures shall include:

- Control the access to the draft
- Terms of Confidentiality to be signed by any person that will have access to the draft
- Whenever possible, meet with the operator and/or manufacturer representatives in a controlled room to discuss the draft
- Make use of secure FTP to send the draft and to receive the comments from operator and/or manufacturer



## Confidentiality Exercise



## Agenda

★Understanding and drafting models of the processes and measures required in AIG

★Understanding and drafting models of the systems required in AIG

★Identifying and drafting the organization/structure of the means required in AIG



## **AIG Systems**

- ★Coordination and standardization with Regional Offices
- ★Receiving and processing notifications without delay
  ★Contact details for the notification to the investigation authority



## **AIG Systems**

- ★Assistance to aircraft accident victims and their families
- ★Mandatory incident reporting
- ★Accident and incident database



# Coordination and standardization with regional offices

6.103 If the investigation authority has regional offices, is there an effective system in place for coordination and standardization?



# Standardizatic regional 6.103 If the to the majority of the States in our Regional Not applicable to the majority L

6.103 If the investigation authority has regional offices, is there an effective system in place for coordination and standardization?

Elements that usually require coordination include:

- Progress of the investigations
- Training
- Standardization of procedures
- Procurement for the equipment (when centralized in HQs)
- Meetings



# Receiving and processing notifications without delay

6.315 Has the State established and implemented a system to ensure that:
1) notifications of accidents and incidents (forwarded within the State or forwarded by other States) are received and processed without delay during office hours as well as out-of-office hours; ...

#### This PQ is linked with 6.316

6.316 Has the State established procedures and guidance, including a checklist, for the initial response following the receipt of a notification?

Key elements:

- 1. Received
- 2. Processed
- 3. Without delay
- 4. Office hours & out-of-office hours

#### Received:

The system shall include the means to receive the notifications

- E-mail:
  - The most usual today
  - Practical if you have a template
  - May be redirected to the mobile
- Website:
  - You may have the form available to be filled
  - Everything on the place (guidance and form)

- Telephone:
  - Reach you immediately
  - Mobiles can access e-mails
  - May require the support of a form to gather the info
- Fax:
  - The last option
  - Will require an office with staff to handle it

#### Processed:

Take the appropriate action regarding the information:

- Decide on the institution of an investigation (see PQ 6.316)
- Acknowledge receipt or notify other States and ICAO
- Register the occurrence in the database

#### Without delay:

- Without delay means immediately
- The main purpose of the notification is to allow the State to take action:
  - Institute an investigation (time is key to preserve evidence)
  - Provide support to the investigation conducted by another State (by providing information on aircraft, crew, <u>dangerous goods</u>, etc.)

*Note: The auditor will look for evidences on the hour of the occurrence and the time of the notification to other States/ICAO* 

#### Office hours and out-of-office hours:

- States need to have someone on duty 24/7 to receive notifications and take actions in response
- It doesn't need to be an investigator on duty, but someone able to take the appropriate actions (i.e. call the investigator on duty, inform the DG to take the necessary actions, engage someone who works in the AIG section, etc.)
- The system includes a procedure containing all the actions need to receive and process the notifications



...

# Receiving and processing notifications without delay

6.315 Has the State established and implemented a system to ensure that:

2) the contact details for the notification to the investigation authority have been made publicly available and notified to ICAO?

6.315 Has the State established and implemented a system to ensure that:

...

2) the contact details for the notification to the investigation authority have been made publicly available and notified to ICAO?

The up-to-date details necessary to address the notification to the AIA (i.e. 24/7 telephone numbers, e-mail, fax numbers, website) need to be available to the public and to other States (through ICAO website) 6.315 Has the State established and implemented a system to ensure that:

...

2) the contact details for the notification to the investigation authority have been made publicly available and notified to ICAO?

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About AIG Accident Inves	ICAO / Safety / Air Navigation Bureau / Accident Investigation Section (AIG) / Accident Investigation Authorities Addresses About AIG Accident Investigation Authorities Addresses Accident Investigation							Please additionally put the NACC Regional Office in copy
Accident Repor e-Library of Fin Reports Protection of	Ŭ.	addresses and	l contact details of <u>accie</u>	dent inves		NACC-AIG@icao.int		
Investigation Re Safety Recommendation addressed to IC	ons	Changes reg cstjohn@icad		etails sho	ould be forward	ed to AIG	nbox@icao.int with a copy to	
Safety Recommendatio Global Concern								
Investigative Technologies a Techniques	nd				Share this page:			

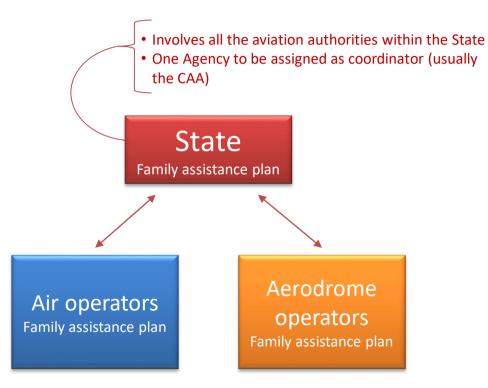


# Assistance to aircraft accident victims and their families

6.383 Has the State established a comprehensive system for providing assistance to aircraft accident victims and their families?

Legislation and/or policies shall establish family assistance plans that address:

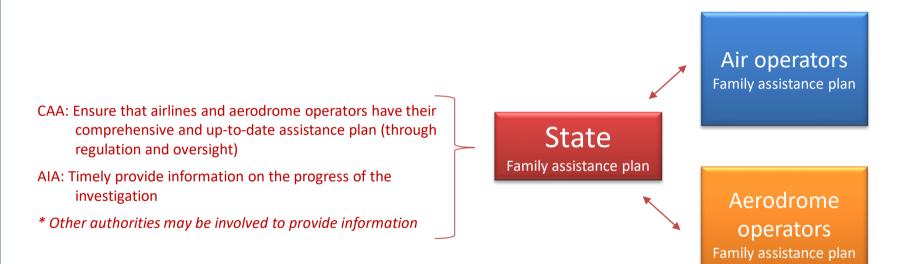
- Scope
- Responsibilities
- Roles
- Coordination



#### <u>SCOPE</u>

The scope of the assistance shall include:

- Information
- Medical support
- Psychological support
- Transportation, accommodation and food
- Places to meet and provide assistance







## **Mandatory incident reporting**

6.501 Has the State established and implemented (through the necessary legislation, procedures and guidance to the industry) a mandatory incident reporting system to facilitate the collection of information on actual or potential safety deficiencies?

6.501 Has the State established and implemented (through the necessary legislation, procedures and guidance to the industry) a mandatory incident reporting system to facilitate the collection of information on actual or potential safety deficiencies?







#### Notification of accidents and incidents



Mandatory incident reporting system

- To the investigation authority
- Determine immediate actions by the State
- ASAP and by the quickest means available
- Mandatory for accidents and serious incidents

- To the authority in charge of SSP
- Doesn't determine any immediate actions by the State
- Usually made periodically or days after the event (e.g. every Wednesday, or within 72 hours, etc.)

Mandatory incident reporting system

- The regulation needs to determine:
  - Which types of incident shall be reported
  - Who is obliged to report
  - The timelines for reporting
  - To whom the report will be directed
- The guidance shall provide the industry with details on:
  - How to report (website, forms, e-mail, etc.)
  - The types of incident to be reported
  - The information required in each report
- Database:
  - The reports shall be inserted in a database from the State
  - Preferably the same where accident and serious incidents are

*Note: Effective implementation will be verified by the auditor by assessing the number of reports received (commensurate with the level of aviation activity)* 



### **Accident and incident database**

6.507 Has the State established an accident and incident database, in a standardized format, to facilitate the effective analysis of information on actual or potential safety deficiencies and to determine any preventive actions required?

6.507 Has the State established an accident and incident database, in a standardized format, to facilitate the effective analysis of information on actual or potential safety deficiencies and to determine any preventive actions required?

- This is the database of the investigation authority (with access to the State's SSP)
- It needs to be ADREP compatible
- ECCAIRS is the recommended software to be used (but it is not mandatory)
- The amount of data needs to reflect the complexity of the State and needs to contain all the accidents, serious incidents and investigated incidents

*Note:* It is expected to have a lot of serious incidents for each accident (Heinrich and Bird pyramids) Several air traffic serious incidents are expected



## Agenda

- ★Understanding and drafting models of the processes and measures required in AIG
- ★Understanding and drafting models of the systems required in AIG
- ★Identifying and drafting the organization/structure of the means required in AIG



## **AIG Means**

- ★Ensure provision of the necessary, up-to-date documentation
- ★Ensure the proper maintenance of investigation files
- ★Ensure the availability of hangars/storage facilities when needed



## **AIG Means**

- ★Correct and up-to-date contact information of AIG authorities to be made available and used
- ★Ensure cooperation and separation between the AIG authority and the judicial authorities



# Ensure provision of the necessary, up-to-date documentation

6.209 Has the investigation authority established and implemented means to ensure that its investigators are provided with the necessary, up-to-date documentation to effectively accomplish their functions and responsibilities? 6.209 Has the investigation authority established and implemented means to ensure that its investigators are provided with the necessary, up-to-date documentation to effectively accomplish their functions and responsibilities?

#### Wrong reference:

GM Doc 9756 Part I, 2.6.1.1, 2.6.2 & App. 8 6.209 Has the investigation authority established and implemented means to ensure that its investigators are provided with the necessary, up-to-date documentation to effectively accomplish their functions and responsibilities?

#### Wrong reference:

The correct would be: 2.7.1.1, 2.7.2 and App. 8

6.209 Has the investigation authority established and implemented means to ensure that its investigators are provided with the necessary, up-to-date documentation to effectively accomplish their functions and responsibilities?

#### Information to be provided includes:

- ICAO documentation
- Manufacturers' documents
- Plans
- Processes
- Procedures
- Checklists

6.209 Has the investigation authority established and implemented means to ensure that its investigators are provided with the necessary, up-to-date documentation to effectively accomplish their functions and responsibilities?

Documentation needs to be up-to-date:

- Control of internal documents
- Membership or internal control of currency of 3rd party documentation

- May be hard copy and/or digital
- Access must be granted to all investigators



# Ensure the proper maintenance of investigation files

6.210 Has the investigation authority established and implemented means to ensure the proper maintenance of aircraft accident and serious incident investigation files?

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Investigation files (*includes sensitive information*)

- Aircraft documents (CR, CA, Maintenance registers, relevant aircraft manuals, engine documentation, etc.)
- Crew (Licences, experience, rates, training records, medical cert., etc.)
- Meteorological information (Reports, METAR, SIGMET, etc.)
- Records of the examination and testing of the system or component
- Graphs, calculations, studies, etc.
- Photographs, diagrams, etc.
- Investigation reports (preliminary, final and ADREP data)
- Etc.

6.210 Has the investigation authority established and implemented means to ensure the proper maintenance of aircraft accident and serious incident investigation files?

- Whenever possible, make soft copy back-ups
- To be stored in an organized folder (with index, numbered pages and divided in accordance with a pre-established criteria)
- Folder to be kept in a safe environment and organized in accordance with a pre-established criteria
  - An appropriate room equipped with cabinets for archiving documents
  - Fire protection

Hard copy files

Accessible by authorized persons only

6.210 Has the investigation authority established and implemented means to ensure the proper maintenance of aircraft accident and serious incident investigation files?

Soft copy files

- To be stored in an organized folder (with index and divided in accordance with a pre-established criteria)
- Folder to be kept in a safe environment and organized in accordance with a pre-established criteria
  - Accessible by authorized persons only
  - Preferably segregated from internet
- Back-up



# Ensure the availability of hangars/storage facilities when needed

6.211 Has the State established and implemented arrangements and/or procedures to ensure the availability of hangars/storage facilities when needed in order to protect the evidence and maintain safe custody of the aircraft for such a period as may be necessary for the purposes of the investigation?

Key elements:

- 1. Arrangements and/or procedures
- 2. Hangars/storage facilities
- 3. Maintain safe custody
- 4. Period necessary

### Arrangements and/or procedures:

- Arrangements:
  - They may be MoUs, contracts (e.g. rental, assignment of temporary use, etc.), legislation (when referring to a public area), owning their own areas, etc.
  - They are necessary to secure the commitment to authorize the use of the site to the authority in case of need
- Procedures:
  - May apply to complement the arrangement with the appropriate level of details regarding how this use will be authorized and put in place
  - May also address the access control and other issues

### Hangars/storage facilities:

- The investigation authorities need to have spaces to store wreckage, parts and components during investigations
- For large States, consideration must be given to the needs of having storage facilities in more than one region (to cover the needs of the investigation), or to have the appropriate means for the timely transportation of the wreckage from the site to the storage facility

### Maintain safe custody:

- The facilities need to ensure the appropriate level of protection to the wreckage to avoid deterioration, damages, pilfering and any circumstance that could affect the characteristics of the material in a way that jeopardizes its use in the investigation
- For large States, consideration must be given to the needs of having storage facilities in more than one region (to cover the needs of the investigation), or to have the appropriate means for the timely transportation of the wreckage from the site to the storage facility
- In sensitive cases (that involve judicial proceedings), safeguard measures must be put in place in coordination with the police or other relevant authorities to ensure safe custody (seal access doors, security, surveillance cameras, etc.)

### Period necessary:

- The arrangement must ensure the availability for the period necessary (which is always uncertain)
- In the case of contracts, there has to be:
  - A clause to ensure the extension of the contract in the case the area is being used by the AIA (i.e. wreckage is being stored in the facility)
  - A procedure to opportunely guarantee the renewal of the current contract or a new contract, in order to maintain the permanent availability of storage facilities
- MoUs with a with predetermined term also require a renewal procedure



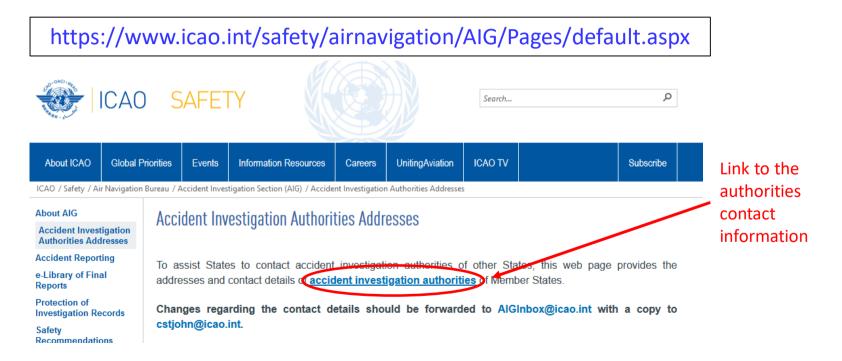
# Correct and up-to-date contact information of AIG authorities to be made available and used

6.311 Does the State have means in place to ensure that correct and up-to-date contact information of aircraft accident investigation authorities of other States is made available to, and used by the personnel in charge of forwarding accident or incident initial notifications to other States?

6.311 Does the State have means in place to ensure that correct and up-to-date contact information of aircraft accident investigation authorities of other States is made available to, and used by the personnel in charge of forwarding accident or incident initial notifications to other States?

- The ICAO website is supposed\* to have the current information regarding the investigation authorities from all contracting States
- The list of contact information of investigation authorities is required as part of the notification procedure, where the State may either have a list of contact information as an appendix, or the procedure may direct to the ICAO website (more practical)
- If the State has a list with contact information, there has to be a procedure to ensure the list is kept up-to-date (this will be verified by the auditor)
- If the State directs to the ICAO website, everyone charged with tasks related to the notification to other States must have access and know how to access that webpage (this might also be checked by the auditor)
  - \* States have the obligation to inform ICAO of any changes in their contact information of accident investigation authorities, thus the currency of the site depends on the compliance of the States

6.311 Does the State have means in place to ensure that correct and up-to-date contact information of aircraft accident investigation authorities of other States is made available to, and used by the personnel in charge of forwarding accident or incident initial notifications to other States?





#### Accident Investigation Authorities Addresses

#### As of August 2021

DT for Dependent territory NCS for Non-Contracting States

Country	Address
Afghanistan	President of Civil Aviation Operations Ministry of Civil Aviation and Tourism Ansari Watt, P.O. Box 165 Kabul Afghanistan Tel.: (873) 68 2341450 / 49 Fax: (873) 68 1280784 AFTN: OAK9WAY Cable: CIVAVIA Kabul
Albania	Ministry of Transport and Infrastructure National Investigation Body of Accid/Incid in Civil Aviation (OXIIA) 3, Rruga, Princ Vidi PCO. Box 74, Tirana Albania TeL: +(355) 47 203-686 E-mail: info@okiia.gox.al Website: www.okiia.gox.al
Algeria	Ministère des transports Direction de l'Aviation civile et de la météorologie 119, rue Didouche Mourad Alger Algérie Tel: (213) 2 74 06 81 (standard) (213) 2 74 76 30 (ligne Directeur directe) Fax: (213) 2 74 76 14 (213) 2 74 76 24 RSITA: ALGMUTCR Telex: 66 129
Andorra	National Civil Aviation Administration Département des Transports et de l'Énergie Ministère de l'Économie



## **Ensure cooperation and separation between the AIG authority and the judicial authorities**

6.359 Has the State established and implemented means to ensure:
a) the cooperation between the accident investigation authority and the judicial authorities, so that an investigation is not impeded by administrative or judicial investigations or proceedings; and
b) separation between the investigation conducted under Annex 13 and the one by the judicial authority?

6.359 Has the State established and implemented means to ensure:
a) the cooperation between the accident investigation authority and the judicial authorities, so that an investigation is not impeded by administrative or judicial investigations or proceedings; and
b) separation between the investigation conducted under Annex 13 and the one by the judicial authority?

Cooperation		Access to and safety at the site of the accident Preservation of and access to the evidence Identification of victims/autopsies Flight recorder read-outs Examinations of relevant material/evidence Initial and ongoing debriefings of the status of each process Exchange of information Appropriate use of safety information Resolution of conflicts Training
-------------	--	--

6.359 Has the State established and implemented means to ensure:
a) the cooperation between the accident investigation authority and the judicial authorities, so that an investigation is not impeded by administrative or judicial investigations or proceedings; and
b) separation between the investigation conducted under Annex 13 and the one by the judicial authority?

- Custody of evidence
- Examinations of relevant material/evidence
- Exchange of information (limited to factual)
- Statements/interviews
- Appropriate use of safety information
- Use of investigation reports
- Resolution of conflicts

Separation \_

6.359 Has the State established and implemented means to ensure:
a) the cooperation between the accident investigation authority and the judicial authorities, so that an investigation is not impeded by administrative or judicial investigations or proceedings; and
b) separation between the investigation conducted under Annex 13 and the one by the judicial authority?

How to build cooperation with the judicial authority?

- Try to know with details what is the mission (mandate) of the authority and what sort of activities that authority performs
- Identify, among those activities, the ones that might be of interest for AIG
- Identify which of the capacities the AIG has that could be of interest for the judicial authority
- Try to establish contacts at the technical level to begin conversations, then try to draft (in coordination with them) the points of interest of each organization
- Once mature, try to level up the conversations









