

Protection of investigators against biological and other hazards

6.373 Has the investigation authority established and implemented procedures and guidance material for the protection of investigators against biological hazards and other hazards at the accident site?



Let's build it together

- ★ Stage 1 Gathering relevant information
- ★ Stage 2 Defining the framework
- ★ Stage 3 Writing the procedure



Let's build it together

★Exercise: Protection of investigators against biological and other hazards

 \bigstar To do the exercises, we will use our fictional scenario:

★ State – Coronaland

- ★ Authority Civil Aviation Authority of Coronaland (CAAC)
- ★The accident investigation unit is not independent, being part of the CAAC



Let's build it together

★ Stage 1 – Gathering relevant information

- ★ Stage 2 Defining the framework
- ★ Stage 3 Writing the procedure



Stage 1 – Gathering relevant information

★Gather all information relevant to the development of the procedure

- ★Since the procedure of our exercise comes out from a PQ, we need to know the content of:
 - ★ the question of the Protocol USOAP
 - ★ the ICAO references to that PQ
 - ★the Guidance for Review of Evidence



Protection of investigators against biological and other hazards

6.373 Has the investigation authority established and implemented procedures and guidance material for the protection of investigators against biological hazards and other hazards at the accident site?

Key elements:

- 1. Established and implemented
- 2. And guidance material
- 3. Protection of investigators
- 4. Biological hazards and other hazards

Established and implemented

• This PQ requires evidence of implementation

And guidance material

- This is not limited to a procedure
- Great part of the work for this PQ will be building the guidance

Protection of investigators

• That protection begins with the equipment available, passes through training and finishes with the implementation of the procedure and guidance

Biological hazards and other hazards

• The guidance contained in the Doc 9756 and the Circular 315 needs to be "customized" to the State conditions



ICAO references

GM Doc 9756 Part I, 5.4, 5.5 & App. 1, C5 Part II, App. 6, Section 4 Doc 9962 4.5 Cir 315



Chapter 5

ACTIONS AT THE ACCIDENT SITE

5.4 SAFETY AT THE ACCIDENT SITE



Manual of Aircraft Accident and Incident Investigation

> Part I Organization and Planning

Approved by the Secretary Gener and published under his authorit

Second Edition — 2015

International Civil Aviation Organization

5.4.1 General

- 5.4.2 Urban accident sites
- 5.4.3 Precautions to be taken against fire
- 5.4.4 Precautions to be taken with dangerous cargo
- 5.4.5 Wreckage hazards
- 5.4.6 Biological hazards
- 5.4.7 Psychological stress
- 5.4.8 Helicopter operations



Chapter 5

ACTIONS AT THE ACCIDENT SITE

5.5 ENVIRONMENTAL AND NATURAL HAZARDS

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> Part I Organization and Planning

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5.5.1 General

5.5.2 Extreme climate

- 5.5.3 Mountainous terrain
- 5.5.4 Deserts, jungles and swamps
- 5.5.5 Poisonous plants, dangerous animals and insects



Doc 9756

lanual of

Incident Investigation

Part I Organization and Planning

Appendix 1 to Chapter 5

PERSONAL PROTECTIVE EQUIPMENT AGAINST BIOLOGICAL HAZARDS

The following provides general guidelines on the personal protective equipment to be used by accident investigators at the accident site. The protective equipment may also be required when performing off-site examinations and tests on wreckage parts.

- Disposable latex gloves
- Work gloves
- Face masks
- Protective goggles
- Disposable protective suits
- Disposable shoe covers and protective boots
- Disinfection chemicals
 - Biological hazard disposal bags



Appendix 6

MAJOR ACCIDENT INVESTIGATION GUIDE

Section 4

SITE SAFETY COORDINATOR

The Site Safety Coordinator ensures that all activities at the accident site are properly coordinated, with specific emphasis on site security and site safety. The Site Safety Coordinator is responsible to the Investigator-in-charge and coordinates his activities with the whole investigation team.



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Manual of	
Aircraft Accident and	
Incident Investigation	

Part II Procedures and Checklists

Approved by the Secretary Gener

First Edition -- 201

International Civil Aviation Organizatio



DOC 9962

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Second edition, 2019

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4.5.1 ICAO Circular 315, Hazards at Aircraft Accident Sites, contains detailed guidance on managing occupational health risks in aircraft accident investigation, including the various categories of hazards associated with accident and incident investigation. The [Accident Investigation Authority] should use the generic operational safety planning guide contained in Chapter 4 of Circular 315, as well as the operational safety plan/site assessment tool contained in Appendix A to Chapter 4 of Circular 315, and the personal protective equipment guide contained in Appendix B to Chapter 4 of Circular 315.



DOC 9962

Doc 9962
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Second edition, 2019

INTERNATIONAL CIVIL AVIATION ORGANIZATIO

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NTERNATIONAL CIVIL AVIATION ORGANIZATION

4.5 HEALTH AND SAFETY AT AN ACCIDENT SITE

4.5.2 Investigators should be aware of the potential hazards at an accident site and what precautions to take. For this reason, the *[Accident*] *Investigation Authority*] should designate a staff member (or an appropriate person or persons from another organization) as the "accident" site safety and security coordinator" responsible for accident site safety and security matters and overseeing the personal protective equipment and its use. The investigator-in-charge (IIC) or the designated accident site safety and security coordinator should brief the investigation team on all known and potential hazards and should establish appropriate safety practices. The accident site safety and security coordinator should also ensure compliance with the provisions of this manual and other ICAO guidance material regarding the health and safety of investigators during the course of investigations.





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Note.— If a specific accident site safety and security coordinator is not designated, another investigator, such as the IIC, chairperson of the structures group or another responsible person should assume the duties of ensuring proper site safety and security.





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Note. — If a specific accident site soft is not designated, another constraints of the soft of the sof





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- 4.5.3 The support of fire department and dangerous goods specialists should be enlisted, as necessary, to evaluate known and/or potential hazards, and to brief the investigation team, as appropriate.
- 4.5.4 Investigators who work among wreckage should be given a valid anti-tetanus serum inoculation and hepatitis immunization, as well as the necessary personal protective equipment against biological hazards, such as blood-borne pathogens. Records of inoculations should be maintained for each investigator.





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INTERNATIONAL CIVIL AVIATION ORGANIZATION

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4.5.5 It is the policy of the [Accident Investigation Authority] to provide all investigators with initial and recurrent training on biological hazard protective equipment and procedures. Records of such training should be maintained for each investigator.



CIRCULAR 315

Hazards at Aircraft Accident Sites



Cir 315 AN/179

Hazards at Aircraft Accident Sites

> Approved by the Secretary General and published under his authority

International Civil Aviation Organization

Introduction

Chapter 1. Terminology

Chapter 2. Managing occupational health risks in aircraft accident investigation

Chapter 3. Hazards

Chapter 4. Generic operational safety planning guide Appendix A — Operational safety plan/site assessment

Appendix B — Personal protective equipment

Chapter 5. Health and safety training



Guidance for Review of Evidence

1) Review procedures and guidance material

2) Ensure that the guidance material has been customized as needed to reflect

the local conditions and the safety equipment available.

3) Review evidence to confirm effective implementation.

That means there shall be no "copy and paste". Not everything in ICAO guidance is applicable to all the States



- ★ "Brainstorm" to find out which tasks would be part of the procedure
- ★We may use the template we developed to guide us in the process

NU	J MBER:	T	ITLE:			
	Process:					
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Step	WHA' (Detailed description		WHO (Designated person responsible for the execution)	HOW (Determination of the way the task will be performed and means to be used)	WHEN (Establish the timeline for the procedure, determining the deadlines for relevant tasks)	In COORDINATION with whom (Identify the persons to coordinate the execution of the task with when applicable)
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NUMBER:	ER: 14 TITLE: Protection against hazards on the site of the occurrence					
Process:	Investi	Investigation				
Reference:	PQ 6.373 – Has the investigation authority established and implemented procedures and guidance material for the protection of investigators against biological hazards and other hazards at the accident site?					



Step	WHAT (Detailed description of the task)	WHO (Designated person responsible for the execution)	HOW (Determination of the way the task will be performed and means to be used)	WHEN (Establish the timeline for the procedure, determining the deadlines for relevant tasks)	In COORDINATION with whom (Identify the persons to coordinate the execution of the task with when applicable)
1	Determine the environmental conditions				



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1	Determine the environmental conditions	Investigator on duty			



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1	Determine the environmental conditions	Investigator on duty	The investigator on duty will verify the environmental conditions that investigators will probably be subjected to on the site. Note 1: The information to be obtained must include, as a minimum, the topography for the events on land), the meteorological conditions, and the native fauna. Note 2: The Geographical Institute of Coronaland (phone 3561-6656), the Regional Police Command for each Region (http://nationalpolice.gov.cd/), the National Guard (phone 3443-2353 or 3447-2221), the Captaincy of Ports in each region (http://portauthority.gov.cd/institutional/), and the local office of the Secretariat for the Environment (http://sec-env.gov.cd/contact/) are the main sources of information.		



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3	Expert assistance for the safe handling of hazardous materials				



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4	Identify any medical facility				



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4	Identify any medical facility	Investigator on duty	The investigator on duty will seek for any medical facilities near to the site of the occurrence, getting all available contact information to support the actions on site. Note 1: Information to be collected shall include emergency phone numbers, address, level of services available, and regular working hours. Note 2: During office hours, this task can be delegated to the Administrative Assistant.		



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5	Briefing to the Investigator-in- charge/investigatio n team				



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5	Briefing to the Investigator-in- charge/investigatio n team	Investigator on duty	The investigator on duty will brief the Investigator-in- charge/investigation team with the all information collected in the previous steps. Note: All contact information collected shall also transmitted by in written to the Investigator-in-charge, with a copy to the Administrative Assistant.		



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6	Additional protective equipment				



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6	Additional protective equipment	Investigator-in- charge			



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6	Additional protective equipment	Investigator-in- charge	The Investigator-in-charge will select appropriate additional protective equipment in accordance with the information provided in the briefing. Note 1: Additional equipment means any equipment that is not part of the regular (ready to go) kit. Note 2: This task can be delegated to a team member.		



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6	Additional protective equipment	Investigator-in- charge	The Investigator-in-charge will select appropriate additional protective equipment in accordance with the information provided in the briefing. Note 1: Additional equipment means any equipment that is not part of the regular (ready to go) kit. Note 2: This task can be delegated to a team member.	Before leaving for the site of the occurrence	



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7	Preliminary survey of the site				



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7	Preliminary survey of the site	Investigator-in- charge			



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7	Preliminary survey of the site	Investigator-in- charge	The Investigator-in-charge will make a preliminary survey of the site to look for any safety threat not expected. Note 1: This survey will include contacting any authority already on the site and, in particular, the one responsible for the security. Note 2: This task can be delegated to a team member.		



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8	Medical support on site				



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8	Medical support on site	Investigator-in- charge			



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8	Medical support on site	Investigator-in- charge	The Investigator-in-charge will ensure that all team members are aware of their responsibilities with respect to their personal safety while working on the site. Note 1: This includes being aware of the existence and location of an adequate first-aid kit is available on site, as well as the location and emergency phone number of the medical facilities near the site. Note 2: The awareness shall be registered in a list to be signed by each member. Note 3: This task can be delegated to a team member.		



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9	Disposal of contaminated items				



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9	Disposal of contaminated items	Investigator-in- charge			



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9	Disposal of contaminated items	Investigator-in- charge	The Investigator-in-charge will coordinate the safety disposal of all disposable and/or contaminated item in the appropriate recipient. Note 1: The recipient with the contaminated items will be brought back to the AIG Section for further sending to the contracted hospital, for the proper disposal. Note 2: All items disposed shall be registered and informed to the Inventory Manager for the equipment storage, for the proper stock control and replacement in the kit. Note 3: This task can be delegated to a team member.		



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Let's build it together

★ Stage 1 – Gathering relevant information
★ Stage 2 – Defining the framework
★ Stage 3 – Writing the procedure



Writing the procedure

★After this "brainstorm" and with the template completed, we will probably be able to write the procedure



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PROCEDURE No 14/CAAC-AIG – PROTECTION AGAINST HAZARDS ON THE SITE OF THE OCCURRENCE

INTRODUCTION

The management of safety risks on the site of an occurrence is an essential activity, which can have a significant impact in the investigation if not observed.

The purpose of this procedure is to support the investigation team with steps to help ensure the safety of each member, thus ensuring the continuity of activities while on site.

PROCEDURE

- 1 The Investigator on duty will verify, within two hours after becoming aware of the occurrence and before the Investigator-in-charge departs to the site of the occurrence, the environmental conditions that investigators will probably be subjected to on the site.
 - Note 1: The information to be obtained must include, as a minimum, the topography for the events on land), the meteorological conditions, and the native jouna.
 - Note 2: The Geographical Institute of Coronaland (phone 3561-6656), the Regional Police Command for each Region (<u>http://nationaipolice.gov.cd/</u>), the National Guard (phone 3443-233) or 3447-2221, the Captaincy of Ports in each region (<u>http://portauthority.gov.cd/institutional/</u>) and the local office of the Secretoriat for the Environment (<u>http://secsim.gol.cd/contact/</u>) are the main sources of information.
- 2 The Investigator on duty will, within three two hours after becoming aware of the occurrence and before the Investigator-in-charge departs to the site of the occurrence, contact the operator, by phone, to check whether there were dangerous goods on board the aircraft.
 - Note 1: A list of national commercial operators shall be maintained up-to-date by the Administrative Assistant, in accordance with the appropriate procedure.
 - Note 2: When there is an accredited representative from the State of the Operator, the information shall be requested through that officer.
 - Note 3: In the case of international operator without accredited representative, the Investigator on duty shall contact the Dangerous Goods Section of the CAAC (phone 3795-2298, 24/7).
- 3 The Administrative Assistant will seek, within two hours after becoming aware of the occurrence and before the Investigator-in-charge departs to the site of the occurrence, for expert assistance for the safe handling of hazardous materials on site, if applicable.
 - Note 1: Whenever possible, the expert will be included in the travel arrangements related to the deployment of the Investigator-in-charge to the site.
 - Note 2: When travel is not possible, coordination through Zoom or phone will be coordinated by the Administrative Assistant (office hours) or the Investigator on duty (out of office hours).
 - Note 3: As a first option, one of the inspectors from the DG Section shall be considered.
 - Note 4: During office hours, this task can be delegated to the Administrative Assistant.

- 4 The investigator on duty will seek, within three hours after becoming aware of the occurrence and before the Investigator-in-charge departs to the site of the occurrence, for any medical facilities near
 - to the site of the occurrence, getting all available contact information to support the actions on site. Note 1: Information to be collected shall include emergency phone numbers, address, level of services available, and regular working hours.
 - Note 2: During office hours, this task can be delegated to the Administrative Assistant.
- 5 The Investigator on duty will brief the Investigator-in-charge/investigation team, before their departure for the site of the occurrence, with the all information collected in the previous steps. Note: All contact information collected shall also transmitted by in written to the Investigator-in-charge, with a copy to the Administrative Assistant.
- 6 The Investigator-in-charge will select, in accordance with the information provided in the briefing, all appropriate additional protective equipment before leaving for the site of the occurrence. Note 1: Additional equipment means any equipment that is not part of the regular (ready to go) kit. Note 2: This task can be delegated to a team member.
- 7 The Investigator-in-charge will make a preliminary survey of the site, immediately after arriving at the site of the occurrence, to look for any safety threat not expected.
 - Note 1: This survey will include contacting any authority already on the site and, in particular, the one responsible for the security.
 - Note 2: This task can be delegated to a team member.
- 8 The Investigator-in-charge will ensure, within 30 minutes after arriving at the site of the occurrence, that all team members are aware of their responsibilities with respect to their personal safety while working on the site.
 - Note 1: This includes being aware of the existence and location of an adequate first-aid kit is available on site, as well as the location and emergency phone number of the medical facilities near the site.
 - Note 2: The awareness shall be registered in a list to be signed by each member.
 - Note 3: This task can be delegated to a team member.
- 9 The Investigator-in-charge will coordinate, within 30 minutes after arriving back to the AIG Section,
 - the safety disposal of all disposable and/or contaminated item in the appropriate recipient. Note 1: The recipient with the contaminated items will be brought back to the AIG Section for further sending to the contracted hospital, for the proper disposal.
 - Note 2: All items disposed shall be registered and informed to the Inventory Manager for the equipment storage, for the proper stock control and replacement in the kit.
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ICAO SAFETY

Provision of information to the families and accident survivors

6.381 Has the investigation authority established and implemented procedures to ensure that relevant and timely information on the progress of the investigation will be provided to the families and accident survivors?