

# **TECHNICAL GUIDANCE MATERIAL**

## **for**

# **Dangerous Goods Packing Organisations**

**SUBJECT: TECHNICAL GUIDANCE MATERIAL FOR DANGEROUS GOODS PACKING ORGANISATIONS**

**EFFECTIVE DATE: 02 November 2023**

### **APPLICABILITY**

This technical guidance material is applicable to all Packing organizations involved in packing services or facilitate packing services for dangerous goods transportation by air. This requirement is in accordance with Part 92 of SACAA CAR's 2011, the SACATS Part 92 and the ICAO Technical Instructions for the Safe Transport of DG by Air.

### **1. PURPOSE**

The purpose of this user guide is to provide guidance in developing the manual of procedures for dangerous goods packing organizations involved in packing services for dangerous goods to be transported by Air.

### **2. REQUIREMENTS**

**2.1** The ICAO amendment 11 of 2013 required that each Contracting State must establish inspection, surveillance and enforcement procedures for all entities performing any function prescribed in its regulations for air transport of DG with a view to achieving compliance with its DG regulations. The requirements are applicable to Cargo entities, cargo operators and the entire supply chain including Packers as detailed below.

**2.2** Dangerous goods packing organisation requirements.

- (a) a packing organisation within the Republic involved in packing services for conveyance of dangerous goods by air shall be authorised to do so in writing by the Director.
- (b) a packing organisation shall ensure that packages that are used to pack dangerous goods have been-
  - (i) manufactured, fabricated, marked, maintained, reconditioned, or repaired, constructed and tested in accordance with the requirements as prescribed in Document SACATS 92; and
  - (ii) tested by a State authorised testing facility and issued with a valid package performance test certificate.
- (c) A dangerous goods packing organisation shall:
  - (i) appoint a person responsible for dangerous goods as required by regulation 92.01.43.
  - (ii) develop dangerous goods procedures manual as prescribed in Document SACATS 92;
  - (iii) provide personnel with training and such information as to enable them to carry out their responsibilities with regards to packing of dangerous goods for conveyance by air;
  - (iv) ensure that a dangerous goods procedures manual is approved by the Director and made accessible to personnel; and
  - (v) develop a training programme for personnel commensurate with their duties as provided for in Subpart 2 of these regulations.

**2.3** The dangerous goods packing organisation procedures manual shall contain as a minimum the following information-

- (a) description of the nature of business the entity is involved in;
- (b) the designated person responsible for dangerous goods within the organisation;

- (c) handling procedures for dangerous goods-for all personnel which include:
  - (i) packing and decanting of dangerous goods;
  - (ii) issuance of documentation and retention;
  - (iii) dealing with incidents and emergencies; and
  - (iv) availability of package performance tests;
- (d) signages within the warehouse;
- (e) training programme;
- (f) occupational Health and safety;
- (g) reporting procedures;
- (h) warehouse facility; and
- (i) emergency response kit;

Note: Nothing in this guidance material prohibits the user from adding any information in their manuals which they may deem pertinent for safe handling of Dangerous Goods.

### 3. REFERENCE:

- i. Guidance on a Competency-based Approach to Dangerous Goods Training and Assessment (Doc 10147)
- ii. ICAO Annex 18
- iii. ICAO DOC 9284 Technical Instructions
- iv. South African Civil Aviation Regulations, 2011 as amended (SACAR)
- v. South African Civil Aviation Technical Standards (SACATS)

### 4. TERMS AND ABBREVIATIONS:

TERM	DEFINITION
<b>Cargo Aircraft Only</b>	Dangerous goods that are considered to be too dangerous for carriage on passenger aircraft
<b>Consignment</b>	One or more packages of dangerous goods accepted by an operator from one shipper at one time and at one address, receipted for in one lot and moving to one consignee at one destination address.
<b>Dangerous Goods</b>	Dangerous Goods are Articles or substances which are capable of posing a hazard to health, safety, property or the environment and which are shown in the list of DG in the ICAO Technical Instructions, or which are classified according to those Instructions.
<b>Exception</b>	A provision in ICAO Annex 18 which excludes a specific item of dangerous goods from the requirements normally applicable to that item.
<b>Exemption</b>	An authorization, other than an approval, granted by an appropriate national authority providing relief from the provisions of the Technical Instructions for the safe Transport of Dangerous Goods by air (ICAO Doc. 9284).
<b>Forbidden Dangerous Goods</b>	Dangerous goods that are considered too dangerous to be carried on any aircraft under any circumstances
<b>Forbidden Unless exempted</b>	Dangerous goods that are forbidden under normal circumstances but may be carried with specific approvals.
<b>Handling agent</b>	An agent who performs on behalf of the operator some or all of the functions of the latter including receiving, accepting, loading, unloading, transferring or other processing of passengers or cargo.
<b>Hidden Dangerous Goods</b>	Are defined as cargo declared under a general description which may contain hazardous articles that are not apparent.
<b>ICAO competency Framework</b>	A competency framework, developed by ICAO, is a selected group of competencies for a given aviation discipline. Each competency has an associated description and observable behaviours.
<b>Knowledge</b>	Knowledge is specific information required to enable a learner to develop and apply the skills and attitudes to recall facts, identify concepts, apply rules or principles,

	solve problems, and think creatively in the context of work.
<b>Observable behaviour</b>	A single role-related behaviour that can be observed and may or may not be measurable.
<b>Operator</b>	A person, organization or enterprise engaged in, or offering to engage in a road and an aircraft operation
<b>Passenger &amp; Cargo Aircraft</b>	Dangerous goods to be carried on both passenger and Permissible cargo aircraft provided all the requirements of the Dangerous Goods Regulations are met and can be safely transported by air
<b>Performance criteria</b>	Statements used to assess whether the required levels of performance have been achieved for a competency. A performance criterion consists of an observable behavior, condition(s) and a competency standard
<b>Shipper</b>	The individual or company offering the consignment for shipment. They must fully comply with the dg regulations when offering a consignment of dangerous goods
<b>Skill</b>	Skill is an ability to perform an activity or action. It is often divided into three types: motor, cognitive and metacognitive skills.

ABBREVIATION	DESCRIPTION
ATO	Aviation Training Organisations
CBTA	Competency-Based Training and Assessment
DG	Dangerous Goods
DGR	IATA Dangerous Goods Regulations
E: AVSEC	Executive: Aviation Security
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
M: DG	Manager: Dangerous Goods
MOP	Manual of Procedures
MOP	Manual of procedures
OJT	On the Job Training
OM	Operations Manual
POI	Principal Operations Inspector
SACAA	South African Civil Aviation Authority
SACARs	Civil Aviation Regulations
SACATs	Civil Aviation Technical Standards
SM	Senior Manager
SM: DC	Senior Manager: Dangerous Goods and Cargo Security
TI	ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air

## 5. GENERAL

### 5.1 Programme Objectives

- 5.1.1 The main objective of this manual is to ensure that dangerous goods conveyed on a commercial aircraft are packaged, labeled, documented, stored and declared correctly through the application of safety measures laid down in Part 92 of the South African Civil Aviation Regulations, as well as its associated Technical Standards (SACATS-92).
- 5.1.2 This programme is designed to meet the requirements of Aviation Safety related standards contained in ICAO Annex 18 and is in line with Part 92 of the CARs', the SACATS-92.

5.1.3 This programme has been prepared by the official responsible for the implementation and maintenance of safety, in consultation with all applicable operational role players, submitted to and signed and dated by Company Management. This programme will be reviewed and updated as and when necessary.

## 5.2 Scope

5.2.1 The provisions of this Dangerous Goods Manual apply to:

- a. All personnel employed by Company Name (Pty) Ltd allocated with the responsibility of acceptance, packing, processing, storage, documentation and transportation of dangerous goods by road and air in all branches of Company name (Pty) Ltd.
- b. All contracted or third-party service providers contracted to Company name (Pty)Ltd and handling dangerous goods or related documentation; and
- c. Any person seeking access to the dangerous goods designated areas of company name (Pty) Ltd cargo facilities.

## 5.3 Commitment Statement

5.3.1 I declare that, to the best of my knowledge, the information contained in company name (Pty) Ltd Dangerous Goods manual for Packing of dangerous goods for Air Transport is true and accurate, the practices and procedures set out in this Manual will be implemented and maintained at all sites of Company name (Pty)Ltd

5.3.2 This Procedures Manual will be adjusted and adapted to comply with all future relevant changes to Part 92 of the South African Civil Aviation regulations, unless Company name (Pty)Ltd informs the SACAA that it no longer wishes to pack dangerous goods for conveyance by air.

5.3.3 Company name (Pty) Ltd will inform the SACAA in writing of:

- a. minor changes / deviation to its Dangerous Goods Manual promptly and at least within 10 working days; and
- b. major planned changes, such as new packing instruction or procedures, labeling, handling, storage and segregation procedures and or major building works which might affect compliance with relevant Civil Aviation legislation or change of site/address, at least 15 working days prior to the commencement/the planned change,

5.3.4 In order to ensure compliance with relevant Civil Aviation legislation, company name (Pty) Ltd will cooperate fully with all inspections and audits, as required, and provide access to all documents, as requested by authorized officers,

5.3.5 Company name (Pty)Ltd will inform the SACAA of any serious safety breaches and of any suspicious circumstances which may be relevant to aviation safety and security in particular any attempt to concealing dangerous goods or any security prohibited articles in consignments,

5.3.6 Company name (Pty)Ltd will ensure that all relevant staff receive appropriate training and are aware of their responsibilities under the company's Dangerous Goods manual, and

5.3.7 Company name (Pty)Ltd will inform the SACAA if it ceases trading; it no longer deals with packing of dangerous goods; or it can no longer meet the requirements of the relevant Civil Aviation legislation.

I shall accept full responsibility for this declaration.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name surname, Managing Director or similar.

## 5.4 Amendments to Manual

- 5.4.1 All amendments to an approved Dangerous Goods manual shall be submitted to the SACAA for approval before being implemented. The organisation will always operate in accordance with an approved Manual.
- 5.4.2 The Dangerous Goods manual may not be altered or amended without the written approval of the SACAA and of the person or position that undersigned the compliance undertaking as contained in the manual.
- 5.4.3 Where a revision of this manual is affected, the following steps will be followed:
  - a. A cover letter, indicating the amended pages and the number of amended pages.
  - b. New pages will be issued for insertion into the programme identified by a revision number and date.
  - c. Amendments will contain new information or revised meaning of text.
  - d. The old pages must be destroyed in a secure manner not accessible to unauthorised persons and the Record of Amendment completed accordingly.
  - e. Each recipient shall acknowledge receipt of updates and confirm implementation to the DG designated person within 48 hours after receipt.
- 5.4.4 Each holder of a copy of the Dangerous Goods manual is responsible to verify that all pages listed on the covering letter have been received.
- 5.4.5 The control, amendment and distribution of the Dangerous Goods manual or any subsequent amendments will be done by the DG designated person.
- 5.4.6 The DG designated person shall be responsible for the distribution of copies of the Dangerous Goods manual, amendments thereof or any subsequent Emergency Amendments.
- 5.4.7 The DG designated person is responsible for making such amendments as well as making them available to relevant staff once approved by the SACAA.
- 5.4.8 The DG designated person shall maintain a register to account for all copies or parts of the Dangerous Goods manual distributed/issued and shall ensure the retrieval of any absolute manuals not returned by assigned persons.

## 5.5 Organisational Structure

### 5.5.1 Company profile

Company name (Pty)Ltd (Head Quarters)  
 100 James Avenue  
 Bellville  
 Johannesburg  
 1600

### 5.5.2 Nature of business: (specify)

- a. Dangerous Goods Packing Services
- b. Cargo Handling Organisation with packing services
- c. Freight Forwarding with packing services
- d. Consolidator with packing services
- e. Operator with packing services

### 5.5.3 Cargo is received from the following sources:

- a. Corporate Companies – Mainly Account Holders
- b. Manufacturers
- c. Freight forwarders
- d. Courier organizations
- e. Consolidators
- f. Air carriers
- g. Individual customers

5.5.4 **Physical characteristics of premises used for receipt, dispatch, processing, and storage of dangerous goods.**

- a. Type(s) of Warehouse: leased and not shared with other companies.
- b. Address (es) of dangerous goods processing / storage area(s):

LOCATION	SITE LOCATION	ADDRESS
Administration	Head Office	
Location Site 2	Bloemfontein	
Location Site 3	Cape Town	
Location Site 4	Durban	
Location Site 5	East London	

5.6 **Organisational Structure**

The dangerous goods manual shall contain an organogram, depicting the organizational structure. The organizational structure shall indicate the relationship between the aviation security structure and safety structures (dangerous goods) within the organization if applicable. The hierarchy and reporting lines of all structures that pertain to aviation safety are attached as per **Appendix A**

5.7 **Designated official- Dangerous Goods Responsible Person**

- 5.7.1 The person whose name appears below has been appointed by the organization as the Management Representative responsible for the implementation, monitoring and supervision of the aviation Dangerous Goods safety controls prescribed by Part 92 of the South African Civil Aviation Regulations.
- 5.7.2 Communication between the SACAA and Company name (Pty) Ltd should be directed to this official. This official is senior enough in the organization, as can be seen in Appendix A, to affect any directives which might be necessary in the interest of aviation security for dangerous goods. He/she has the necessary experience and qualifications for this responsibility.

5.8 **Duties of the Designated Dangerous Goods Official**

5.8.1 Duties should cover the minimum roles outlined in the designation regulation as follows:

- a. Compliance with the regulations.
- b. Quality control.
- c. Reporting of accidents and incidents.
- d. Maintenance of dangerous goods incidents and accidents records.

5.8.2 Additional responsibilities may include the following:

- a. The development, amendment and implementation of the overall dangerous goods manual for the organisation.
- b. The development and promulgation of companywide Dangerous Goods safety standards and practices to ensure compliance with Part 92 regulation.
- c. Establishing and maintaining effective liaison with the SACAA, as well as other stakeholders in the supply chain involved in ensuring that the dangerous goods packages are transported safely.
- d. Ensuring that effective risk assessment and analysis are conducted regularly and that there is sufficient response capability in case of incidents and accidents.

- e. Ensuring understanding of legislation and regulations relating to Dangerous Goods throughout the organisation.
- f. Providing specialized advice to line management in all aviation safety functions regarding dangerous goods.
- g. Ensuring all staff dealing with dangerous goods and related documentation are trained and proper control of training records is established and maintained.
- h. Ensuring appointment of suitably qualified persons as dangerous goods officials in the respective branches of (Company name) (Pty) Ltd in a case where multiple branches exist.

**Note:** The incumbent must accept the duties and responsibilities mentioned above by signing the appointment document named “**APPOINTMENT LETTER: PERSON RESPONSIBLE FOR DANGEROUS GOODS**”, attached as **Appendix B**

## 5.9 Qualifications requirement

5.9.1 The organisation must ensure that the appointed individual has the necessary experience and meets the minimum requirements for a designated dangerous goods person in terms of the regulations. The regulations stipulates that the minimum shall be the following—

- a. the successful completion of a Group A based dangerous goods advanced training based on the competency-based training framework from an approved Aviation Training Organisation (ATO); and
- b. Risk management or safety management aviation-based qualification.

5.9.2 The organisation must specify the minimum experience requirement for a packer.

**Note:** The curriculum vitae and the above qualifications must accompany the appointment letter and the qualification certificates must be part of the manual as **Appendix B**.

## 5.10 Recommendation

5.10.1 In addition to the Dangerous Goods Responsible Person, it is recommended for organisations with multiple offices to have Dangerous Goods Officials at branch or station level. The local Dangerous Goods official must be qualified in Dangerous goods Group A.

5.10.2 The main duties of the Local Dangerous goods official are to support and implement the duties of Designated dangerous goods official at the station level.

## 5.11 General Packer Responsibilities

5.11.1 Any packing organisation packing dangerous goods for transport by air shall:

- a. Ensure full compliance with the ICAO Technical Instructions for the safe transport of dangerous goods or IATA DGR, Part 92 regulations and related technical standards, and any applicable safety regulations set forth by the Republic.
- b. ensure that all persons involved are aware that offering articles or substances in violation of the regulations, is a breach of national law and may be subject to legal penalties.
- c. provide information to the employees which will enable them to carry out their responsibilities with regard to the transportation of dangerous goods by air.
- d. ensure that the articles or substances to be packed are not prohibited for transport by air.
- e. ensure that the articles or substances are properly identified, classified, marked, labelled, documented and are in the condition for transport in accordance with the regulations.
- f. ensure that all relevant persons involved in preparation for a dangerous goods consignment offered for air transport have received training to enable them to carry out their responsibilities, as detailed in Sub-Part 2 of the Part 92, Dangerous Goods Regulations.

- g. ensure that dangerous goods are packed in compliance with all applicable air transport requirements in line with packing instructions.
- h. ensure that the warehouse facility or cargo facility is compliant with Part 92 requirements.

## 5.12 Operational procedures for handling dangerous goods.

- 5.12.1 Company name (Pty) Ltd will apply systems and methods to ensure that dangerous goods in their care are accepted from clients, properly identified, classified, packed, labelled, handled, documented, stored and are safe and secure for conveyance in commercial air transport operations.
- 5.12.2 The identity of visitors shall be recorded and where visitors are required to enter areas where Dangerous Goods are handled, stored, packed or processed, such visitor will remain under escort by an authorised representative.
- 5.12.3 Visitors requiring access to Dangerous Goods areas shall be subject to search as to prevent the introduction of explosives, incendiary devices or any other prohibited or harmful articles which may be used to commit acts of unlawful interference.
- 5.12.4 Acceptance of dangerous goods from customers/clients' procedure
- 5.12.5 Storage procedures within the warehouse
- 5.12.6 Packing and decanting of dangerous goods
- 5.12.7 Labelling and marking of dangerous goods
- 5.12.8 Issuance of documentation and retention
- 5.12.9 Dealing with incidents and emergencies; and
- 5.12.10 Availability of package performance tests certificates
- 5.12.11 Availability of packing materials

## 5.13 Classification

- 5.13.1 Dangerous Goods are defined as those goods which meet the criteria of one or more of 9 UN Hazard Classes and where applicable, to one of 3 UN Packing Groups. The 9 Classes relate to the type of hazard. Some Dangerous Goods classes are further subdivided into divisions. Some articles or substances may have more than one hazard to indicate the various hazardous characteristics.
- 5.13.2 Dangerous Goods are assigned to the relevant Packing Group according to the degree of Danger they present as follows:
  - a. Packing Group I - High Danger
  - b. Packing Group II - Medium Danger
  - c. Packing Group III - Low Danger

**Note:** It is the Shipper's responsibility to identify and classify all Dangerous Goods intended for transport by air in compliance with regulations as per the attached table.



**Caution:** for complete details refer to the current dangerous goods regulations or company operations manual.

Class / Div	IMP Code(s)	Description
1.4 B, C, D, E, G, S	RXB, RXC, RXD, RXE, RXG, RXS	Explosives
	REX	Explosives, normally forbidden (1.1, 1.2, 1.3 (not C and G), 1.4F, 1.5 & 1.6)
1.3C	RCX	Explosives
1.3G	RGX	Explosives
2.1	RFG	Flammable gas
2.2	RNG (and RCL if applicable)	Non-flammable, non-toxic gas (and cryogenic liquid)
2.3	RPG	Toxic gas
3	RFL	Flammable liquid
4.1	RFS	Flammable solid
4.2	RSC	Spontaneously combustible
4.3	RFW	Dangerous when wet
5.1	ROX	Oxidizer
5.2	ROP	Organic peroxides
6.1	RPB	Toxic substances
6.2	RIS	Infectious substances
7	RRW RRY	Radioactive material I-White Radioactive material II-Yellow and III-Yellow
8	RCM	Corrosive material
9	RMD ICE MAG RSB RLI (ELI) RLM (ELM)	Miscellaneous dangerous goods Dry ice Magnetized material Expandable Polymeric Beads / Plastics Moulding Compounds Lithium ion batteries: Class 9 (Section II - excepted) Lithium metal batteries: Class 9 (Section II - excepted)
Misc.	RDS REQ RRE AVI PER, FIL, HEG	Biological substance, Category B Dangerous goods in excepted quantities Radioactive material, excepted package Live animals Perishable cargo (includes PES, PEM, EAT, etc.), undeveloped film, hatching eggs

**Table 1: Classification Table**

#### 5.14 Acceptance of dangerous goods

5.14.1 A dangerous goods consignment will only be accepted by Company name (Pty)Ltd under the following conditions:

- a. Only Company name (Pty) Ltd trained Staff and or third-party staff that is trained on Dangerous Goods Group A shall do acceptance duties.
- b. Collections from clients must be done by drivers trained on Dangerous Goods.
- c. The goods have no evidence of leaking and damage.
- d. Proper documentation such as safety data sheet describing the name of the substance or article to assist the packer in terms of handling, storage, packing, documentation and transporting of the dangerous goods as well as to prepare for what will be required in case of emergency.

5.14.2 Dangerous Goods must have been clearly identified with the following:

- a. UN Number
- b. Proper shipping name
- c. Class Division or Number
- d. Packing Group

#### 5.15 Storage procedures within the warehouse

- 5.15.1 Designate specific area for dangerous goods storage, preferably isolated from other non- dangerous goods materials in the warehouse.
- 5.15.2 The designated area shall have the following:
- a. Adequate space to safely accommodate and segregate the envisaged dangerous goods;
  - b. Have a legible copy of a dangerous goods segregation table;
  - c. Have clear and visible dangerous goods notices/signage with classes;
  - d. Have a dangerous goods spill kit;
  - e. Have a list of emergency numbers for dealing with dangerous goods incidents; and
  - f. Have a procedure readily accessible on how to deal with dangerous goods incidents.
- 5.15.3 Storage procedures shall ensure the following:
- a. Segregation for different classes of dangerous goods is applied to prevent chemical reactions and fires.
  - b. incompatible substances are stored separately.
  - c. Use dedicated storage areas or cabinets for specific hazard classes to minimize cross-contamination risks.
  - d. Provide prominent, clear and visible segregation signage around the dangerous goods designated area.
  - e. Dangerous Goods will not be packed close to each other and or on top of each other unless they are compatible as per the Compatibility Chart displayed.
  - f. Trained Staff and a Dangerous Goods official are to handle the storage in the warehouse.
  - g. Mandatory use of PPE when handling dangerous goods.

## 5.16 Packing and decanting of dangerous goods

- 5.16.1 It is the responsibility of the packer to ensure that the Dangerous Goods received from the shipper are packed correctly as follows:
- a. ensure that containers used are made of compatible materials that are resistant to the substance's properties to prevent corrosion and or leakage.
  - b. Ensure containers used have current and valid package test certificates.
  - c. Ensure containers are tightly sealed to prevent leaks and spills.
  - d. Ensure usage of correct absorbent material where combination packing is required.
  - e. Ensure correct dangerous goods quantity limits are adhered to as per packing instructions.
- 5.16.2 Decanting of dangerous goods refers to the process of transferring hazardous materials from one container to another. This process is often necessary for various reasons, such as consolidating smaller quantities of a substance into larger containers, transferring liquids for use in a controlled environment, or preparing materials for transportation. However, decanting dangerous goods can pose significant risks if not conducted properly. It's crucial to follow strict safety procedures and adhere to relevant regulations to minimize the potential for accidents, spills, or exposure to harmful substances. Here are some key considerations and steps for safely decanting dangerous goods:
- a. **Risk Assessment:**

Before initiating the decanting process, conduct a thorough risk assessment to identify potential hazards and develop strategies to mitigate them. This assessment should consider factors such as the nature of the hazardous material, its compatibility with containers, the decanting process, and the surrounding environment.
  - b. **Proper Equipment and Containers:**

Use appropriate containers, tools, and equipment that are specifically designed and approved for handling the hazardous material being decanted. Ensure that these containers are in good condition and compatible with the material.

**c. Personal Protective Equipment (PPE):**

Require personnel involved in the decanting process to wear the necessary PPE, including gloves, safety goggles, protective clothing, and respiratory protection if required.

**d. Ventilation:**

Conduct decanting in a well-ventilated area to prevent the buildup of potentially hazardous vapors. If decanting indoors, consider using fume hoods or ventilation systems.

**e. Static Electricity Control:**

Static electricity can ignite flammable materials during decanting. Use grounded equipment, anti-static containers, and follow procedures to minimize the risk of static discharge.

**f. Avoid Contamination:**

Prevent cross-contamination by ensuring that containers are clean and free of residues from previous substances. This is especially important when transferring reactive or incompatible materials.

**g. Labelling and Documentation:**

Ensure that containers are properly labelled with the correct information, including the name of the substance, hazard class, and appropriate warning labels. Maintain accurate documentation of the decanting process for regulatory compliance.

**h. Emergency Procedures:**

Have emergency response procedures in place, including spill containment and cleanup materials. Train personnel on how to respond in case of spills, leaks, or accidents.

**i. Training and Competency:**

Ensure that individuals involved in the decanting process are adequately trained and competent in handling hazardous materials. Regular training and refresher courses are essential to maintaining safe practices.

**j. Supervision:**

Supervision by knowledgeable personnel can help oversee the decanting process and intervene if any deviations from safe practices occur.

## **5.17 Labelling/Identification/Marking**

5.17.1 The packer acting on behalf of the shipper is responsible for all necessary markings and labelling of Dangerous Goods in compliance with the Regulations.

5.17.2 Proper Shipping Name and the associated UN Number as identified by the shipper or the manufacturer in line with the substance or article hazard classification and their composition must be used for markings.

5.17.3 All labels must meet the quality and specification requirements of the Regulations and must be affixed in the correct location and in a secure manner. All markings must be visible, legible and so placed that they are not covered or obscured in any way.

#### 5.17.4 Required Markings are:

- a. UN Number and Proper Shipping Name
- b. Full Name and Address of Shipper and Consignee
- c. Hazard Label – must bear the Class and division number if applicable in the bottom corner label. Unless otherwise provided in the DGR, Hazard text indication the nature of the risk may be inserted in the lower half of the hazard label in addition to the hazard class, division or compatibility group
- d. Handling Label – give an additional information on how to handle, store or load Dangerous Goods
- e. The net quantity (for Class 1 and Dry Ice) of Dangerous Goods contained in each package must be shown adjacent to the UN Number and Proper Shipping Name with the letter “G”
- f. For Infectious Substance (Blood, etc.) the Name and Telephone Number of Responsible Person
- g. For Class 2 – DO NOT DROP – HANDLE WITH CARE
- h. UN3373: BIOLOGICAL SUBSTANCE CATEGORY B”
- i. The word “SALVAGE” to be used when transporting packages into which damaged, defective, leaking or non-conforming Dangerous Goods packages, or Dangerous Goods that have spilled or leaked and are placed for the purpose of transport for recovery or disposal
- j. Consolidated packages – multi packages from more than one person
- k. “Not Restricted” – if the package does not fall into the criteria of classification.

**Note:** Should any of the above points be overlooked, the consignment will be rejected by the ground handler and returned to the Shipper immediately.

### 5.18 Documentation

#### 5.18.1 There are three documents which accompany all shipments of Dangerous Goods:

- a. **Shipper's Declaration** for Dangerous Goods – must be completed in English and in duplicate. Cannot be altered or amended unless the alteration has been signed by the Shipper with the same signature used to sign the document. When Dry Ice is used as a refrigerant for Dangerous Goods, the details of the dry ice must be shown on the Shipper's Declaration. The DGD shall only be signed by an individual qualified in Group A or equivalent acceptance course. The Packer shall use and retain a copy of the safety data sheet with all other required documents.
- b. **Air Waybill** – Handling Information is required i.e., Air Waybill must have the following information: Dangerous Goods as per associated shipper's declaration or Dangerous Goods as per associated DGD. Where dangerous goods are for the cargo aircraft only, the words “Cargo Aircraft Only” or CAO must be added. An airway bill containing both Dangerous and Non-Dangerous Goods should indicate the number of pieces of Dangerous Goods.  
  
Care should also be given to the “Nature and Quantity of Goods” column as additional information is often required for items such as Dry-Ice used as a refrigerant, lithium batteries transported under Section II of the applicable packing instructions, etc.
- c. **NOTOC (Notification to Captain)** – This is the responsibility of the operator or the appointed agent.

- d. **Additional Information** – when dangerous goods shipments are shipped under an exemption, a copy of the exemption must accompany the consignment.

## 5.19 Package performance tests

- 5.19.1 Company name (Pty)Ltd shall ensure the following:
- that packages in use are tested by a state approved testing organisation; and
  - that packages in use have valid and current package performance certificates.

## 5.20 Packing materials

- 5.20.1 Company name (Pty)Ltd shall ensure the following:
- that materials in use are durable, good quality and meeting the packaging specifications and performance tests,
  - that the necessary absorbent materials and cushioning materials are readily available and are used in accordance with the Packing Instructions requirements.

## 5.21 High Consequence Dangerous Goods

- 5.21.1 High consequence dangerous goods accepted into the facility will be stored in an area that is covered by CCTV. Where it is not possible to store such commodities in areas covered by CCTV, measures will be implemented to maintain constant surveillance over such commodities while under the care and control of the organisation. Subject to the size and quantity of the consignment and where such consignment is required to remain overnight, the police authorities will be notified of the presence of such commodities.
- 5.21.2 Any loss or theft of high consequence dangerous goods will without delay be brought under the attention of the designated official. The incident shall be reported to the Civil Aviation Authority and followed up with a written report within 48 hours.

## 5.22 Arms & Ammunition

- 5.22.1 Company name (Pty)Ltd does or does not handle Arms and Ammunition.
- 5.22.2 Any Arms and Ammunition detected during the acceptance or handling of cargo shall be stopped and the police authorities shall be notified. The incident shall be reported to the Civil Aviation Authority and followed up with a written report within 48 hours.

**Note:** Ammunition can be transported in line with the recommendations of the ICAO Technical Instructional for safe Transport of Dangerous Goods or the IATA dangerous Goods regulations manual.

## 5.23 Other Articles - Lifesaving Drugs & Human Organs

- 5.23.1 All above items shall be required to be:
- Clearly declared on shipping documents as such;
  - Physically checked upon receipt for signs of tampering;
  - Subjected to documentary checks to establish on face value the correctness and sufficiency of information on any document; and
  - Protected from unauthorised interference.
- 5.23.2 The above items are also client specific and done with dedicated fleet and Standard Operating Procedure.

## 5.24 Transportation and Loading

- 5.24.1 Only closed vehicles which protect the Dangerous Goods from sunlight will be used to transport Dangerous Goods to the airport.
- 5.24.2 Only trained Staff will collect the Dangerous Goods and transport them to Company name (Pty)Ltd warehouses.
- 5.24.3 Packages with Radioactive Material must be handled with care as far as possible from the person in order to maintain the principle of keeping exposure to radiation as low as possible.

## 5.25 Inspection for Damage and Leakage

- 5.25.1 Company name (Pty)Ltd before accepting the package will inspect them for damage and or leakage.
- 5.25.2 If the package is damaged and or is leaking –the Shipper must be notified immediately to come and collect the package for proper packaging.
- 5.25.3 Should a package be damaged and or leaking whilst in the care of Company name (Pty)Ltd – the following needs to be done:
  - a. Notify the shipper.
  - b. Inspect adjacent packages for contamination and put aside any that have been contaminated.
  - c. Clean the area using the spill kit.
  - d. Report to the supervisor who should in turn report to the Dangerous Goods Official.

## 5.26 Resolution of incident (Damaged and Leaking Dangerous Goods)

- 5.26.1 Notify a supervisor or responsible person about the incident immediately. If the exposure is significant or if symptoms develop, seek medical attention promptly. Supervisor of responsible person must arrange for a chemical cleaning organisation to collect and dispose.
- 5.26.2 Notify the Shipper and or the Consignee
- 5.26.3 Notify authorities (airport authorities, Aviation authorities, the operator)
- 5.26.4 If the package contains infectious substances, notify Health authorities.
- 5.26.5 If personnel were in contact with the contents of the package, the following must be done:
  - a. Provide immediate first aid measures based on the nature of the hazardous material and the type of exposure. This might include rinsing affected areas with water, removing contaminated clothing, and seeking medical attention if necessary.
  - b. Consult the Safety Data Sheet (SDS) for the specific hazardous material involved. The SDS contains detailed information about the material's properties, hazards, first aid measures, and recommended actions in case of exposure.
  - c. If the exposure involved a spill or leak, isolate the affected area to prevent the spread of the hazardous material. Follow appropriate containment and cleanup procedures to minimize further exposure and environmental impact.
  - d. Document the Incident: Maintain accurate records of the exposure incident. Document details such as the date, time, location, personnel involved, nature of exposure, symptoms, and any actions taken. This documentation is important for regulatory compliance and future reference.
  - e. Follow Up and Monitoring: After receiving medical attention, continue to monitor the affected personnel for any delayed symptoms or adverse health effects. Follow any medical recommendations for observation or follow-up care.
  - f. Review and Improve Procedures: Conduct a thorough review of the circumstances surrounding the exposure incident. Identify any shortcomings in procedures, training, equipment, or communication that contributed to the incident. Use this information to improve safety protocols and prevent similar incidents in the future.
  - g. Training and Communication: Use the incident as an opportunity to reinforce training and communication among personnel. Emphasize the importance of adhering to safety protocols, wearing appropriate personal protective equipment (PPE), and promptly reporting any incidents or concerns.
  - h. Establish the root cause and provide corrective Actions: Implement corrective actions based on the findings of the incident review. This could involve updating procedures, providing additional training, enhancing equipment, or making other improvements to prevent future exposures.

- i. Remember that the specific actions to be taken will depend on the hazardous material involved, the extent of exposure, and the organization's internal procedures. It's important to have clear protocols in place for dealing with such incidents to ensure the safety and well-being of personnel and to comply with relevant regulations.

## 5.27 Dangerous Goods Accident and Incident Reporting to the CAA

5.27.1 Dangerous Goods incident or accident must be to:

- a. SACAA within 48hrs on [AVSECIncidents@caa.co.za](mailto:AVSECIncidents@caa.co.za) and [Dangerousgoodsoperations@caa.co.za](mailto:Dangerousgoodsoperations@caa.co.za)
- b. The airport authorities where applicable

## 5.28 Examining and completing of shipping documentation

The completion and shipping documentation shall be conducted by suitably trained and background checked staff. During the acceptance of any cargo consignment, acceptance staff will examine received documentation to establish the correctness and sufficiency of information.

## 5.29 Dangerous Goods Audit Trail

5.29.1 Records shall be maintained either manually or in electronic format showing at least the following detail:

- a. Consignee and Consignor detail
- b. description of the goods
- c. Security controls applied to such consignments.
- d. Whether the consignment was accepted or declined

5.29.2 Records shall be maintained for a period not less than one year.

## 5.30 Rejected/Returned Dangerous Goods

5.30.1 Where Dangerous Goods are rejected during delivery, the integrity of such Dangerous Goods will be maintained such goods will be returned under secure transportation to the appropriate storage facility. Where the integrity of such goods is not maintained, such goods will be retained and subjected to inspection.

5.30.2 SACAA and other relevant local authorities shall be notified. All incidents and accidents shall be recorded and kept on file.

## 5.31 Risk/Vulnerability Assessments

5.31.1 Frequency of risk/vulnerability assessments: annually or when an incident occurred requiring the re-assessment of safety measures and systems.

5.31.2 The Designated Dangerous Goods Official or authorized representative will conduct risk/ vulnerability assessments.

5.31.3 Copies of these assessments as well as the documented proof of action taken are available at our offices for the SACAA's perusal.

## 6. RECORD KEEPING

### 6.1 Shipping Documents

6.1.1 The following shipping documents will be maintained for a period not less than one year:

- a. Shipper's Letter of Instructions

- b. House Air waybills-where applicable
- c. Master Air waybills- where applicable
- d. Dangerous Goods Manifests
- e. Air waybill assignments – Forms of Undertaking
- f. Shipping documents
- g. Copies of shipper's declarations
- h. NOTOCs if issued.
- i. Acceptance checklist (if applicable)
- j. Safety Data Sheet

## 6.2 Personnel Records

Personnel Training records, certificates and associated documents must be readily accessible. These documents shall be made available upon request by the authorities, i.e. SACAA

## 6.3 Quality Management System

Company name (Pty) Ltd shall apply a quality management system to ensure the sustained effectiveness of the Dangerous Goods procedures as contained in this manual. Such quality management system shall cover areas of document control, record keeping, internal auditing, and control of non-conforming aspects and the introduction of corrective and preventative action.

## 7. TRAINING

### 7.1 Training

- 7.1.1 All operators, cargo entities involved in the cargo supply chain including packers must establish a training program for transport Dangerous Goods by Air. Dangerous Goods Training programme shall be reviewed and approved by the SACAA.
- 7.1.2 Personnel must be trained and assessed commensurate with the functions for which they are responsible prior to performing any of these functions.

### 7.2 Training Programme

- 7.2.1 Refer to the technical guidance material for Competency Based Training and assessment.
- 7.2.2 A packing organisation must establish a training programme for all its employees who require dangerous goods training in terms of CAR Part 92

### 7.3 Competency Based Training and Assessment employee grouping

- 7.3.1 The employee grouping table below is to assist employers and training organisations in defining employee categories for job functions and training purposes in accordance with CAR Part 92. For the purpose of these groupings, the term deemed employee means a person who, although not employed by the packer performs or supervising any of the following services:
  - a. Handling cargo consigned for transport on an aircraft at any time after it leaves the custody of the original consignor, or supervising someone whose duties include handling such cargo; and
  - b. packing dangerous goods, or supervising someone whose duties include packing such goods, in the course of the goods' being consigned for carriage on an aircraft.

#### 7.3.2 *Group A employee* means:



- a. an employee whose duties include accepting, or supervising someone whose duties include accepting, cargo known or believed to contain dangerous goods consigned for transport on an aircraft at any time after it leaves the custody of the original consignor;
- b. a deemed employee whose function includes those duties; or
- c. any other employee whose duties are defined in the operations manual including but not limited to training, moderating and overseeing dangerous goods activities within the organisation.

**7.3.3 Group B employee** means:

- a. an employee whose duties include accepting, or supervising someone whose duties include accepting, cargo consigned for transport on an aircraft (other than cargo known or believed to contain dangerous goods) at any time after it leaves the custody of the original consignor; or
- b. a deemed employee whose function includes those duties.

**7.3.4 Group C employee** means:

- a. an employee who is a member of an aircraft's flight crew or a load planner or flight dispatcher; or
- b. a deemed employee whose function includes performing the duties of a member of an aircraft's flight crew or flight dispatcher or a load planner.
- c. Load planner, in relation to dangerous goods, means a person nominated by an operator to be responsible for any one or more of the following:
  - i. specifying where dangerous goods may be stowed on an aircraft.
  - ii. specifying the necessary segregation of the goods from other dangerous goods, other cargo, or passengers on the aircraft.
  - iii. preparing information for the use of the pilot-in-command; and
  - iv. providing dangerous goods emergency response information for the pilot-in command.

**7.3.5 Group D employee** means:

- a. an employee who is a member of an aircraft's cabin crew; or
- b. a deemed employee whose function includes performing the duties of a member of an aircraft's cabin crew.

**7.3.6 Group E employee** means:

- a. any employee of an operator, ground handling agent, freight forwarder or screening authority who is not a group A, B, C or D employee and whose duties involve handling:
  - i. cargo consigned for transport on an aircraft at any time after it leaves the custody of the original consignor; or
  - ii. passenger's checked or carry-on baggage; or
  - iii. a deemed employee whose function includes those duties.

**7.3.7 Group F employee** means:

- a. an employee of a shipper of goods whose duties include packing dangerous goods, or supervising someone else whose duties include packing dangerous goods, in the course of the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

**7.3.8 Group G employee** means:

- a. an employee of a shipper of goods whose duties include handling and packing infectious substances, or supervising someone else whose duties include handling and packing infectious substances, during the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

**7.3.9 Group H employee** means:

- a. an employee of a shipper of goods whose duties include handling and packing Lithium Batteries, or supervising someone else whose duties include handling and packing lithium batteries, during the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

**7.3.10 Group I employee means:**




- a. an employee of a postal operator or postal service entity whose duties include handling and processing mail and cargo, or supervising someone else whose duties include handling and processing mail and cargo, during the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

**7.3.11 Group J employee means:**

- a. an employee of an operator, shipper or any entity whose duties include accepting, handling and processing of radioactive material, or supervising someone else whose duties include accepting, handling and processing of radioactive material, in the course of the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

**8. DANGEROUS GOODS EMPLOYEE GROUPINGS TABLE**

- **Group A** Dangerous Goods Acceptance personnel/Instructors/Moderators/ designated DG responsible personnel/quality auditors
- **Group B** Non-DG Cargo acceptance personnel
- **Group C** Pilots/load controllers  
Flight dispatch  
Flight Operations officers
- **Group D** Cabin Crew
- **Group E** Passenger handling  
Baggage handlers  
Warehouse personnel  
Security Screeners
- **Group F** Shippers  
Packers of dangerous goods  
Freight forwarders  
Courier personnel
- **Group G** Infectious substances handling personnel.
- **Group H** Lithium battery handling personnel
- **Group I** Post Office personnel involved in handling mail and cargo.
- **Group J** Radioactive material handling personnel

<b>DEVELOPED BY:</b>		
	<b>BHEKI NGIBA</b>	<b>02 November 2023</b>
<b>SIGNATURE OF M: DG</b>	<b>NAME IN BLOCK LETTERS</b>	<b>DATE</b>
<b>REVIEWED &amp; VALIDATED BY:</b>		
	<b>NICO SMIT</b>	<b>02 November 2023</b>
<b>SIGNATURE OF SM: DC</b>	<b>NAME IN BLOCK LETTERS</b>	<b>DATE</b>
<b>APPROVED BY:</b>		
	<b>NICO SMIT</b>	<b>02 November 2023</b>
<b>SIGNATURE OF (Acting) E: AVSEC</b>	<b>NAME IN BLOCK LETTERS</b>	<b>DATE</b>



Section: Dangerous Goods

APPENDIX A
------------

ORGANOGRAM OF COMPANY (PTY)LTD:

## APPOINTMENT LETTER: PERSON RESPONSIBLE FOR DANGEROUS GOODS

I, James Bond in my capacity as Cargo Operations Manager, appoints you James Bond Jnr, Cargo Safety & Compliance, as the designated person responsible for Dangerous Goods for James Bond Airways (Pty) Ltd as per the SACAA Regulatory Standards and Requirements (Part 92.00.30).

For your convenience, please refer to Part 92.01.43 outlining roles and responsibilities as follows:

Designation of persons responsible for dangerous goods

92.01.43 (1) Each operator, ramp handling organisation, ground handling organisation and aerodrome manager shall designate a dangerous goods person who shall be responsible for the following matters involving dangerous goods—

- a) Compliance with the regulations;
- b) Quality control;
- c) Reporting of accidents and incidents;
- d) Maintenance of dangerous goods incidents and accidents records.

Additional responsibilities may include the following:

- a) The development, amendment and implementation of the overall dangerous goods operations Manual for the operator or dangerous goods procedures manual for the Shipper, airport, Freight Forwarder, packer or Cargo Operator.
- b) The development and promulgation of companywide Dangerous Goods safety standards and practices to ensure compliance with Part 92 regulation.
- c) Establishing and maintaining effective liaison with the SACAA, airport authorities as well as other government and law enforcement agencies.
- d) Ensuring that effective risk assessment and analysis are conducted regularly and that there is sufficient response capability in case of incidents and accidents.
- e) Ensuring understanding of legislation and regulations relating to Dangerous Goods throughout the organisation.
- f) Providing specialized advice to line management in all aviation safety functions regarding dangerous goods.
- g) Ensuring all staff dealing with dangerous goods and related documentation are trained and proper control of training records are established and maintained.
- h) Ensuring appointment of suitably qualified persons as dangerous goods officials in the respective branches of (Company name) (Pty) Ltd in a case where multiple branches exist.

Sincerely,



Signature:

Name: James Bond

Position: Executive Flight Operations

Date: 10 May 2023

ACCEPTANCE

I James Bond Jnr, hereby accept and acknowledge the above responsibilities of this appointment.

Signature: 

Date: 11 May 2023

## EMERGENCY RESPONSE CHART

## Dangerous Goods Emergency Response Chart

Hazard Class Division and Compatibility Group	Dangerous Goods Class	Hazard Description	Immediate Action Minimise leakage and contact with other cargo
1.3C 1.3G	Explosives (Acceptable on Cargo Aircraft only)	Fire and minor blast hazard and/or minor propulsive hazard	Notify Fire Department  Guard Against fire
1.4B 1.4C 1.4D 1.4E 1.4G		Fire, But no other Significant hazard	
1.4S	Explosives (safety)	Small fire hazard	
2.1 2.2 2.2	Flammable Gas Non-Flammable Gas Cryogenic Liquid	Ignites when leaking High pressure cylinder bursting Sub cooling	Notify Fire Department Evacuate goods Ventilate area Keep away Minimum 25 m
2.3	Toxic Gas (acceptable on Cargo Aircraft only)	High pressure cylinder and toxic inhalation	
3	Flammable Liquid	Ignites when leaking	Notify Fire Department Do not use water under any circumstances
4.1 4.2 4.3	Flammable Solid Spontaneously Combustible Dangerous when wet	Combustible, contributes to fire Ignites in contact with air Ignites in contact with water	
5.1 5.2	Oxidizer Organic Peroxide	Ignites combustibles on contact Reacts violently with other substances	
6.1 6.2	Poison  Infectious Substance	Harmful if swallowed, inhaled or in contact with skin  Causes disease in Humans and Animals	Isolate area Obtain qualified assistance Do not touch
7 Cat I 7 Cat II/III	Radioactive – White Radioactive – Yellow	Radiation hazards and h Harmful to health	
8	Corrosive	Hazardous to skin and metal	Notify Fire Department Avoid contact with skin
9	Polymeric Beads Magnetized Material Dry Ice Miscellaneous Dangerous Goods	Evolves small quantities of flammable gas Affects navigation system Causes sub cooling/suffocation Hazards not covered by other classes	Avoid contact with skin No immediate action required



APPENDIX C

SEGREGATION TABLE/COMPATIBILITY CHART

Segregation chart

IMP	CL / Div.	RCX	REX	RVB	RVC	ROD	ROE	ROG	ROH	ROJ	ROK	ROL	ROM	RON	ROO	ROQ	ROV	ROW	RSC	RSE	RSH	RSL	RSM	RSP	RST	ROU	ROX	ROY	ROZ	REB		
		1.3C	1.3G	1.4B	1.4C	1.4D	1.4E	1.4G	2.1	2.2	2.3	3	4.2	4.3	5.1	5.2	8															
RCX	1.3C			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
RCX	1.3S			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROB	1.4B	X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROC	1.4C			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROD	1.4D			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROE	1.4E			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROG	1.4G			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROH	2.1	X	X	X	X	X	X	X																								
ROJ	2.2	X	X	X	X	X	X	X																								
ROK	2.3	X	X	X	X	X	X	X																								
ROL	3	X	X	X	X	X	X	X																								
ROM	4.2	X	X	X	X	X	X	X																								
RON	4.3	X	X	X	X	X	X	X																								
ROO	5.1	X	X	X	X	X	X	X																								
ROV	5.2	X	X	X	X	X	X	X																								
ROW	8	X	X	X	X	X	X	X																								
REB	7																															
REB	6.1																															
REB	6.2																															
REB	9																															
HUM																																

\* HUM should not be loaded in close proximity to live animals and foodstuff.

\*\* For complete segregation and separation distances, refer to your company operations manual.

\*\*\* An "X" at the intersection indicates packages containing these classes/divisions require segregation. Classes not included do not require segregation.



APPENDIX D

DANGEROUS GOODS SIGNAGE EXAMPLE:



**THINK BEFORE YOU AIR FREIGHT IT**

 <p><b>EXPLOSIVES</b></p>  <p>Toy Caps    Grenades Ammunition    Fireworks</p>	 <p><b>FLAMMABLE SOLIDS</b></p>  <p>Matches FIRE LIGHTERS</p>	 <p><b>RADIOACTIVE MATERIALS</b></p>  <p>RADIOACTIVE MEDICINE</p>
 <p><b>FLAMMABLE GAS</b></p>  <p>Gas Cylinders    Aerosols Lighter Fuel</p>	 <p><b>OXIDISING SUBSTANCES</b></p>  <p>BLEACHING POWDER CHLORINE</p>	 <p><b>CORROSIVES</b> INSTRUMENTS CONTAINING MERCURY</p>  <p>ACIDS    Thermometer</p>
 <p><b>FLAMMABLE LIQUIDS</b></p>  <p>Petrol    Paint    Thinners</p>	 <p><b>TOXIC SUBSTANCES</b></p>  <p>POISON    Pesticides</p>	 <p><b>MISCELLANEOUS DANGEROUS GOODS</b></p>  <p>Certain Batteries Magnetised Materials Dry Ice</p>

**CONSULT YOUR AIRLINE OR CARGO AGENT FOR FURTHER DETAILS**



Section: Dangerous Goods

APPENDIX D

COPIES OF CERTIFICATES

1. Group A certificate for acceptance
2. Risk management or safety management certificate