

PART 6

AIRCRAFT RECOVERY

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3	Civil Aviation Department	
4	Airport Fire Contingent	
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6	Hong Kong Police	
7	Department of Health / Port Health Division (Airport Section)	
8	<i>Hospital Authority</i>	<i>Not Applicable</i>
9	AA Airfield Department	
10	<i>AA Terminal Operations Department</i>	<i>Not Applicable</i>
11	AA Airport Emergency Centre (AEC)	
12	AA Corporate Affairs Department	
13	<i>Aviation Security Company Ltd.</i>	<i>Not Applicable</i>
14	AA Technical Services Infrastructure Department	
15	<i>AA Retail and Advertising Department</i>	<i>Not Applicable</i>
16	Airline / Handling Agent	
17	Ramp Handling Licensee	

Section	Description	
18	<i>Not used</i>	<i>Not Applicable</i>
19	Line Maintenance Franchisee	
20	Into-Plane Fuelling Franchisee	
21	Cargo Terminal Operators	
22	<i>Customs and Excise Department</i>	<i>Not Applicable</i>
23	<i>Immigration Department</i>	<i>Not Applicable</i>
24	<i>Government Flying Service</i>	<i>Not Applicable</i>
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29	Marine Department	
30	<i>Civil Aid Service</i>	<i>Not Applicable</i>
31	<i>Auxiliary Medical Service</i>	<i>Not Applicable</i>
32	Civil Engineering and Development Department	
33	<i>Lands Department (Survey and Mapping Office)</i>	<i>Not Applicable</i>
34	<i>Hong Kong Observatory (Airport Meteorological Office)</i>	<i>Not Applicable</i>
35	<i>Tenants and Employees</i>	<i>Not Applicable</i>
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37	<i>Transport Department / Transport & Logistics Bureau</i>	<i>Not Applicable</i>

Section	Description	
38	<i>AA Medical Services</i>	<i>Not Applicable</i>
39	<i>AA Safety, Security and Business Continuity Department</i>	<i>Not Applicable</i>
40	<i>Tsing Ma Management Limited</i>	<i>Not Applicable</i>
41	<i>AA Landside Department</i>	<i>Not Applicable</i>
42	AA Integrated Airport Centre	
43	<i>Hong Kong St. John Ambulance Brigade</i>	<i>Not Applicable</i>
44	Air Accident Investigation Authority	
45	AA Aviation Logistics Department	
46	<i>AA APM and Baggage Department</i>	<i>Not Applicable</i>
Appendix 6A	Aircraft Recovery Equipment	

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I. General

1. Any aircraft immobilised on the airport which interferes with the normal airport operations must be removed in an expeditious manner.
2. The purpose of this Part is to outline the functions and responsibilities of the Airport Authority, government departments and other parties which may be mobilised in the recovery of crashed aircraft within the airport boundary in line with the principles defined in the Security Bureau Circular for "Contingency Plan for the Salvage of Crashed Aircraft".

II. Legal Provision

1. Disabled aircraft involved in accidents, or debris resulting from an accident, **should not be interfered with or removed** until released by the AAIA Inspector.
2. The removal of a civilian aircraft involved in a notifiable aircraft accident where death or serious injury is caused, or where the aircraft receives substantial damage, or which is the subject of an investigation by the Air Accident Investigation Authority is governed by the Hong Kong Civil Aviation (Investigation of Accidents) Regulations, 1983, Regulation 7 which states:
 - (1) Subject to Regulation 9, where a reportable accident occurs in or over Hong Kong, no person other than an authorised person shall have access to the aircraft involved in the accident and neither the aircraft nor its contents shall except under the authority of the Chief Inspector be removed or otherwise interfered with:

Provided that -

- (a) the aircraft may be removed or interfered with so far as may be necessary for the purpose of extricating persons or animals, removing any mails, valuables and dangerous goods carried by the aircraft, preventing destruction by fire or other cause, or preventing any danger of obstruction to the public or to air navigation or to other transport, or under the supervision of an Inspector or, with the agreement of an Inspector or of a police officer, for the purpose of removing any other property from the aircraft;
- (b) if an aircraft is wrecked on the water, the aircraft or any of its contents may be removed to such extent

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as may be necessary for bringing it or them to a place of safety.

- (2) In this regulation the expression "authorised person" means any person authorised by the Chief Inspector either generally or specially to have access to any aircraft involved in an accident and includes any police officer and any officer of the Customs and Excise Service.

III. Controlling Authority

1. The Controlling Authority responsible for initiating and coordinating recovery operations will vary according to aircraft ownership and the type and location of the accident, a brief summary of which is given below:

	<u>Type of Accident</u>	<u>Controlling Authority</u>
1.	Civil aircraft crash in the international airport which is subject to investigation or any aircraft wreckage which constitutes an unacceptable obstruction to the operation of the airport	AAHK in consultation with CI of AAIA and DG of CA
2.	Civil aircraft accident on land off the international airport and which is subject to investigation	CI of AAIA
3.	Civil aircraft accident on water and which is subject to investigation	CI of AAIA
4.	Aircraft accident not subject to investigation	Aircraft Owner/Operator

2. All recovery operations at HKIA shall be undertaken under the supervision of the Controlling Authority with the assistance from Airport Authority and aircraft operator. Until formal advice is received to the contrary, organisations involved in an aircraft accident shall assume that the accident is subject to investigation and shall act accordingly.

RECOVERY ACTION PLAN AT THE AIRPORT

The Action Plan serves to provide guidance for the assessment, planning and execution phases of the recovery operation and its aftermath.

	ACTIVITIES		ACTION BY
1.	Initial Assessment Stage		
	1.1	The Executive Director, Airport Operations of Airport Authority (or his deputy) shall be the overall Recovery Operation Co-ordinator.	AA
	1.2	Release of aircraft wreckage for recovery operation.	AAIA
	1.3	Arrangements to cordon and secure the crash site.	Police
	1.4	Fire protection for the crashed aircraft.	AFC
	1.5	Initial site inspection to assess the extent of damage to the aircraft and plan for the recovery methodology, technical support and equipment requirement.	AA/CAD/ AAIA/ Airline/ Line Maintenance Franchisee
	1.6	In accordance with ICAO criteria, obstacles caused by a disabled aircraft may result in the closure of movement areas and the implementation of restricted runway operations.	CAD/AA
	1.7	NOTAM actions.	CAD
	1.8	Incident command from the AA Mobile Liaison Centre on scene.	AA
	1.9	AEC continues as off-scene co-ordination and command centre at the airport during the recovery operation.	AA
2.	Planning Stage		
	2.1	Ad hoc Aircraft Recovery Committee to determine the aircraft recovery plan including	AA

		method of lifting, moving and holding area for the aircraft. Members comprising: <ul style="list-style-type: none"> • AA Executive Director, Airport Operations or Deputy Director, Airport Operations • Airport Insurer Representative • AA Corporate Affairs Department • AA Technical Services Infrastructure Department • CAD ATMD Representative • AAIA Inspector • Aircraft Operator • Line Maintenance Franchisee • Into-Plane Fuelling Franchisee • Ramp Handling Licensee • Police • Airport Fire Contingent • Information Services Department • Other Government Departments 	
	2.2	Consultation with aircraft airframe and engine manufacturers or aircraft operators having experience in similar recovery operations.	Airline / Line Maintenance Franchisee
3.	Recovery Operations Stage		
	3.1	Communication equipment for the recovery operation.	AA/Airline
	3.2	Defuelling.	Into-Plane Fuelling Franchisee
	3.3	Off-loading mail, baggage and cargo, following clearance from AAIA Inspector, and under the supervision of Customs and Excise. Disposition of cargoes and protection of high value cargo following instructions of airline and Police as required.	Ramp Handling Licensees and Cargo Franchisees
	3.4	Designate routes for conveying equipment and personnel to and from the scene.	AA
	3.5	Access control.	Police / AVSECO
	3.6	Supply of general and specialised equipment	AA/Line

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		from the airport and external sources.	Maintenance Franchisee
	3.7	Weather forecast from AMO.	AA
	3.8	Lighting.	AA
	3.9	Temporary pavement on soft ground for access and support of the disabled aircraft.	AA
	3.10	The need to monitor the obstacle clearance criteria due to the operation of cranes during the lifting of the aircraft.	CAD/AAIA /AA
	3.11	Maintain chronological log of the removal operation.	AA
	3.12	Photographs / video documentation of the recovery operation.	AA
	3.13	Weather protection, safety clothing, equipment and catering to recovery operation personnel on scene.	AA/Airline
	3.14	<p>Disposal of spilt fuel, dangerous goods and the area clean up:</p> <ul style="list-style-type: none"> • Airline or service agencies to dispose of the spilt fuel, dangerous goods and clean up the affected area(s) following the advice of Government agencies concerned. Please refer to para. 3.15 below. 	Airline
	3.15	<p>Safety precautions:</p> <ul style="list-style-type: none"> • Disconnect aircraft electrical power sources. • Ventilate the aircraft after fire has been extinguished. • Remove any fuel spills by flushing the area. • Maintain aircraft stability during lifting, jacking and removal operations. • Cautionary measures when working underneath the aircraft wreckage. • Senior Physicist of the Department of Health to supervise removal of radioactive material. • AFC to supervise removal of dangerous goods 	AA/Line Maintenance Franchisee/ Department of Health / AFC / EPD / AAIA

		<ul style="list-style-type: none"> Environmental Protection Department (EPD) to provide advice to prevent the crash vicinity from contamination by the spilt fuel or other chemicals during salvage operation. In the event of a spill of fuel, dangerous goods or other chemical on the airport platform during salvage operation, disposal of chemical waste and subsequent area clean up will follow procedures prescribed in Part 4A and 11 of EPM. For the salvage operation outside the airport platform, EPD with the assistance of Government department responsible for the management of the affected area, to collect and transport chemical wastes arising from handling of the spilt fuel or other chemicals and to clean up the area 	
4.	Post-Recovery Stage		
	4.1	Restoration of the airfield pavement and cleaning.	AA
	4.2	Inspection of airfield navigational aids, lighting, signs and other facilities prior to resumption of normal aircraft operations.	CAD/AA
	4.3	Press release and site visit.	AA/Airline/ ISD/CAD/ AAIA
	4.4	Post-recovery debriefing and critique.	AA
	4.5	Aircraft recovery report.	AA
	4.6	Subsequent review of the Aircraft Recovery Procedures.	AA

CIVIL AVIATION DEPARTMENT**RESPONSIBILITIES**

- Assisting AA in the recovery operation

1. Action by CAD Air Traffic Control (ATC)

- 1.1 Despatch a senior representative to AEC to participate in the Aircraft Recovery Committee on the recovery plan.
- 1.2 Co-ordinate with AA Mobile Liaison Centre and IAC-ACC to facilitate the transportation of specialist recovery equipment to the scene when the crossing of active runways and taxiways is involved.
- 1.3 In the event that the aircraft accident occurs on the runway or its close vicinity, ascertain obstacles to runway operation and determine with AA Executive Director, Airport Operations contingency measures to instigate reduced runway length operation. Promulgate contingency procedures by NOTAM.
- 1.4 Maintain a chronological log of events and actions taken.

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AIRPORT FIRE CONTINGENT**RESPONSIBILITIES**

- Fire prevention coverage
- Provision of manpower and specialist equipment

Action by Airport Fire Contingent (AFC)

1. Rescue Leader to release the aircraft when the fire-fighting and rescue phase is completed.
2. Rescue Leader or his representative to participate in the Aircraft Recovery Committee.
3. Provide fire prevention coverage and advise on fire safety precautions throughout the recovery operations.
4. Provide equipment and support services as required.
5. Sluicing down wreckage recovered from the sea as directed by AAIA Inspector.
6. Recover any radioactive material under the guidance of a physicist from the Department of Health.
7. Maintain a chronological log of events and actions taken.

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HONG KONG POLICE**RESPONSIBILITIES**

- Cordoning of recovery site
- Initial guarding of aircraft wreckage

Action

1. Provide cordon to prevent unauthorised access to the recovery site.
2. Guard aircraft wreckage as required by the AAIA Inspector until a physical barrier is erected to fence off the wreckage.
3. Assist in vehicular traffic control at the recovery site as required by the AA Mobile Liaison Centre.
4. Provide escort of special or outsized plant and equipment from off-airport sources to the site.
5. Maintain a chronological log of events and actions taken.

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DEPARTMENT OF HEALTH**RESPONSIBILITIES**

- Provision of a physicist

Action

1. Provide a physicist to assist with the removal of radioactive materials from the crashed aircraft.
2. Maintain a chronological log of events and actions taken.

AA AIRFIELD DEPARTMENT**RESPONSIBILITIES**

- On scene co-ordination
- Access control in conjunction with the Airport Police
- Escort services to and from the recovery site
- Deployment of aircraft recovery equipment at the airport

1. Action by General Manager, Airfield

- 1.1 The scene control and coordination in respect of the AA will be the responsibility of the General Manager – Airfield. He will be located at the AA Mobile Liaison Centre.

2. Action by Apron Section

- 2.1 Airfield Duty Manager will reform duties of Airfield Section, Apron Section and Bird Control Units.
- 2.2 Oversee the setting up of AA Mobile Liaison Centre on scene for command and control of the recovery operation in consultation with AAIA, the airline, Line Maintenance Franchisee, airport insurer and AFC.
- 2.3 In consultation with ATC Aerodrome Control Supervisor, safeguard active aircraft movement areas, in particular runway and taxiway from unauthorised access by vehicles/personnel.
- 2.4 Maintain contact with AEC and provide situation reports.
- 2.5 Liaise with the Police to control access to the recovery site, and issue identification armbands.
- 2.6 Set up shuttle service for transportation to and from the site.
- 2.7 Maintain a chronological log of events and actions taken.

3. Action by Airfield Section

- 3.1 Provide escort service between the Staging Area and the recovery site.

- 3.2 Arrange for deployment of general and specialised equipment from the Aircraft Recovery Equipment Depot to the recovery site. (A list of AA's recovery equipment is attached at Appendix 6A.)
- 3.3 Liaise with the AA Technical Services Infrastructure Department for the operation of airfield lighting, power supply and other support equipment.
- 3.4 Carry out detailed inspections of the runway, taxiways and associated areas upon completion of the recovery operations and prior to commencement of flight operations.
- 3.5 Conduct inventory check on the condition of the aircraft recovery equipment upon its return to the Aircraft Recovery Equipment Depot.
- 3.6 Maintain a chronological log of events and actions taken.

AA AIRPORT EMERGENCY CENTRE (AEC)

(Tel: 2182 0088 Fax: 2182 9088)

RESPONSIBILITIES

- Off-scene airport command, control and communication centre
- Coordination and dissemination of information to and from all responders
- Coordination of welfare to passengers and other affected person(s)
- Coordination of joint Media Management Plan of responding parties
- Coordination of the airport's Business Continuity Plans

Action

1. In respect of the AA, overall control shall be exercised by the Executive Director, Airport Operations (or his deputy) throughout the aircraft recovery.
2. Provide off-scene command and co-ordination of the recovery operation.
3. Update ATC Watch Manager on progress of the aircraft recovery and impact on aircraft movements.
4. Provide assistance to the Executive Director, Airport Operations (or his deputy) during the recovery operation. Liaise with the airlines community on impact of the aircraft accident and recovery operation. Oversee the continued business of the airport to maintain operational efficiency as far as practicable.
5. Arrange for deployment of manpower resources as required.
6. Liaise with General Manager - Airfield, the AA on-scene controller, ATC Watch Supervisor, airlines, and issuing regular situation reports.
7. Record all expenditure in respect of the recovery operation.
8. Restoration of the aircraft movement areas and co-ordination with airlines, Immigration, Customs and others on resumption of normal operation.
9. Maintain a chronological log of events and actions taken.

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AA CORPORATE AFFAIRS DEPARTMENT**RESPONSIBILITIES**

- Media co-ordination
- Issuing press release
- Handling of media enquiries

Action by Assistant General Manager, Media & Communications

1. Participate in Aircraft Recovery Committee at the AEC.
2. Co-ordinate with AA senior management, airline and Information Services Department on press matters relating to the aircraft accident.
3. Organise press release on aircraft recovery.
4. Maintain a media facility for the media at the airport.
5. In conjunction with Information Services Department, organise media interviews.
6. Ensure that a full photographic / video record of the recovery operation is made.
7. Maintain a chronological log of events and actions taken.

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AA TECHNICAL SERVICES INFRASTRUCTURE DEPARTMENT**RESPONSIBILITIES**

- Technical support and facilities
- Liaison with government departments and external agencies for assistance

Action by Fault Response Team

1. Despatch Assistant Manager, Fault Response / Superintendent, Fault Response to AEC to participate in the Aircraft Recovery Committee on planning of the recovery operations.
2. Liaise with Apron Control at AA Mobile Liaison Centre on scene.
3. Arrange for the provision and operation of additional ground lighting, mobile generators and other emergency equipment as required.
4. Provide staff on site for assistance and operation of support equipment such as mobile floodlight units.
5. In conjunction with Airfield Department, conduct airfield inspection to assess damage to pavements, lighting or other facilities, and initiate emergency repairs.
6. Maintain a chronological log of events and actions taken.

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AIRLINE/HANDLING AGENT**RESPONSIBILITIES**

- Recovery of the aircraft
- Provision of aircraft technical data
- Co-ordination

The aircraft owner/operator will be responsible for meeting all costs of removal of the disabled aircraft and payment for restoration of any property damaged as a result of the accident. In the situation where the owner/operator of the aircraft fails to remove the aircraft or neglects to do so without delay, the Airport Authority will have the right to arrange for its removal and recover all costs incurred from the aircraft owner/operator. In the latter circumstances, no liability will be accepted by the Airport Authority or those acting under its instructions for damage caused in the removal operation.

Action

1. Despatch a senior member of airport staff to AEC to participate in the Aircraft Recovery Committee on planning of the recovery operations.
2. Organise a senior representative from Head Office and Engineering to represent the airline in the aircraft recovery.
3. Arrange for the planning and execution of the recovery of the disabled aircraft by the Aircraft Maintenance Franchisee in co-ordination with AA and Aircraft Recovery Committee.
4. Despatch a Liaison Officer to the AA Mobile Liaison Centre on scene throughout the recovery operation.
5. Provide aircraft manufacturer's data, technical advice, other relevant information and any specialist tools required.
6. Arrange for off-loading of the aircraft as instructed by the CAD Inspector of Accidents, and deliver baggage / cargo / mail to the area as directed by Assistant Manager - Airfield for weighing and/or safe-keeping until released by AAIA Inspector.
7. Arrange with the Into-Plane Fuelling Franchisee for defuelling the aircraft, if required.
8. Arrange for catering to staff working on site.

9. Assist the Police in the restoration of property recovered during the operation.
10. Maintain a chronological log of events and actions taken.

RAMP HANDLING LICENSEE**RESPONSIBILITIES**

- Unloading and transportation of baggage and cargo

Action

1. Despatch equipment and operators necessary to the designated Staging Area from where they will be escorted by AA Apron Control to the recovery site.
2. Subject to approval being given by the AAIA Inspector and the airline, off-load and transport baggage/ cargo to the area specified by the AAIA Inspector in consultation with Customs and Excise Department.
3. Make special arrangements as necessary with:
 - AFC Rescue Leader in handling dangerous goods
 - Police Forward Command Post and the Cargo Terminal Operators in handling high value cargo.
4. Provide equipment and operators at the Aircraft Recovery Equipment Store and at the recovery site.
5. Maintain a chronological log of events and actions taken.

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LINE MAINTENANCE FRANCHISEE**RESPONSIBILITIES**

- Provision of technical support as required by the airline concerned or the Airport Authority
- Undertaking the recovery operations on land including dismantling, if required, and removal of the aircraft

Action

1. Appoint a senior engineer to direct the assessment and execution of the recovery, and to provide coordination with the Airport Authority and the airline concerned.
2. Proceed to the AEC to participate in the Aircraft Recovery Committee on the recovery plan.
3. Conduct an inspection of the aircraft to determine:
 - extent of damage.
 - an initial indication of the recovery method.
4. Advise the Aircraft Recovery Committee of the assessment of the initial survey and an estimate of the duration of the recovery operation.
5. Liaise with the airline in respect of the recovery operation including the question of secondary damage liability.
6. Liaise with the Aircraft Recovery Committee for the defuelling of the aircraft as necessary.
7. Determine a detailed plan of actions for the recovery and arrange for the necessary manpower and equipment.
8. Assist in delivering the aircraft removal and other equipment to the scene of the accident as required by the airline concerned or the Airport Authority.
9. Maintain a chronological log of events and actions taken.

INTO-PLANE FUELLING FRANCHISEE**RESPONSIBILITIES**

- Defuelling
- Safe-keeping of fuel removed
- Preparation of report

Action

1. Despatch a senior representative to the AEC to participate in the Aircraft Recovery Committee on the recovery plan.
2. Liaise with the AA Mobile Liaison Centre at the scene.
3. Carry out defuelling of the aircraft.
4. Arrange for the safe-keeping of fuel samples recovered.
5. Submit a report to the AAIA Inspector on the type, quality and quantity of fuel recovered.
6. Maintain a chronological log of events and actions taken.

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CARGO TERMINAL OPERATORS**RESPONSIBILITIES**

- Disposal of cargo if required
- Protection of high value cargo if required

Action

1. In conjunction with Airline and the ramp handling licensee, arrange disposition of cargo offloaded from the disabled aircraft when released by AAIA Inspector and Customs and Excise Department, following Airline's instructions.
2. In the event of high value cargo onboard the disabled aircraft, in conjunction with the ramp handling licensee, provide assistance such as the protected storage inside cargo terminal operators' premises, following instructions of the Airline and Police as required.
3. Maintain a chronological log of events and actions taken.

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INFORMATION SERVICES DEPARTMENT**RESPONSIBILITIES**

- Co-ordination
- Release of information
- Press liaison

Action

1. Co-ordinate with the airline, department concerned and the Airport Authority for the collection and dissemination of information to Government, the media and members of the public.
2. In conjunction with the Airport Authority, handle press enquiries and organise press interviews, if necessary.
3. Maintain a chronological log of events and actions taken.

MARINE DEPARTMENT**RESPONSIBILITIES**

- Provide professional input and assist in the aircraft recovery operations at sea
- Regulation of sea traffic near the recovery site

In the event of an aircraft accident occurring at sea including the CLK Sea Rescue Zone**Action**

1. At the request of the Controlling Authority, assist the owner / operator of the aircraft in the aircraft salvage operations.
2. Provide a liaison officer to the Aircraft Recovery Committee.
3. Control and regulate marine traffic in the vicinity of the recovery site.
4. Provide escort service during the movement of the crashed aircraft.
5. Implement the Oil Pollution Contingency Plan in the event of oil spillage at sea resulting from the accident.
6. Maintain a chronological log of events and actions taken.

**CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
(CEDD)**

RESPONSIBILITIES

- Provision of divers and equipment

**In the event of an aircraft accident occurring at sea including the CLK
Sea Rescue Zone**

Action

1. Call out Port Works Division / Chief Technical Officer / Floating Plant for the deployment of divers and floating equipment to assist in the salvage operations.
2. Maintain a chronological log of events and actions taken.

AA INTEGRATED AIRPORT CENTRE**RESPONSIBILITIES**

- Off scene co-ordination

1. Action by IAC-ACC

- 1.1 Co-ordinate airport operations and with CAD determine obstacles and the need for closure of aircraft movement areas.
- 1.2 Liaise with the Line Maintenance Franchisee and Ramp Handling Franchisees for the provision of manpower and equipment to assist with the transportation of aircraft recovery equipment.
- 1.3 Maintain a chronological log of events and actions taken.

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AIR ACCIDENT INVESTIGATION AUTHORITY**RESPONSIBILITIES**

- Accident investigation
- Authorizing and supervising the release and removal of aircraft wreckage for civil aircraft accident subject to investigation
- Preservation of wreckage and evidence

Alerted by ATC Aerodrome Control Supervisor.

1. Action by AAIA Inspector

- 2.1 Preserve with assistance from the Police any aircraft wreckage or other evidence for subsequent investigation.
- 2.2 On completion of the preliminary accident investigation on scene, release the aircraft wreckage to the AA Executive Director, Airport Operations.

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AA AVIATION LOGISTICS DEPARTMENT**RESPONSIBILITIES**

- Coordination and monitoring of necessary actions taken by related ALD franchisees

Alerted by IAC - ACC

Action

1. Inform relevant franchisees on the incident and provide update on any latest alerts.
2. Coordinate response activities rendered by relevant franchisees where applicable.

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AIRCRAFT RECOVERY EQUIPMENT

Available at Airport Authority Aircraft Recovery Equipment Store

Quantity	Description	Location
Airbags		
2 nos.	KUNZ Recovery Lift Bag Model: RLB 62-5 Capacity: 62t, 600mm lifting height	South ARE Store (Airbag Room)
14 nos.	KUNZ Recovery Lift Bag Model: RLB 62-3 Capacity: 62t, 600mm lifting height	South ARE Store (Airbag Room)
2 nos.	KUNZ Recovery Lift Bag Model: RLB 44-5 Capacity: 44t, 600mm lifting height	South ARE Store (Airbag Room)
18 nos.	KUNZ Recovery Lift Bag Model: RLB 44-3 Capacity: 44t, 600mm lifting height	South ARE Store (Airbag Room)
4 nos.	KUNZ Recovery Lift Bag Model: RLB 30-5 Capacity: 30t, 600mm lifting height	South ARE Store (Airbag Room)
28 nos.	KUNZ Recovery Lift Bag Model: RLB 30-3 Capacity: 30t, 600mm lifting height	South ARE Store (Airbag Room)
8 nos.	Foam Mattresses (RLB 62 in)	South ARE Store (Airbag Room)
8 nos.	Foam Mattresses (RLB 62 out)	South ARE Store (Airbag Room)
8 nos.	Foam Mattresses (RLB 44)	South ARE Store (Airbag Room)
4 nos.	Foam Mattresses (RLB 30 in)	South ARE Store (Airbag Room)
6 nos.	Portable Ejector	South ARE Store (Airbag Room)
2 nos.	Compressor (REC43)	South ARE Store
12 nos.	Pneumatic Controller (PC14) with Water Separator	South ARE Store (Airbag Room)
6 nos.	Pneumatic Controller (PC8) with Water Separator	South ARE Store (Airbag Room)
Jack System		
1 no.	Intelligent Lifting System of Recovery Jack (165t, RJ16501-001)	South ARE Store
1 no.	Tripod Jack (165t, D16501-002)	South ARE Store
Lifting		
8 nos.	KUNZ Lifting Slings CAT 4 (4t) (Also applicable for aircraft tethering)	South ARE Store
1 no.	KUNZ Heavy-duty Round Sling (3t)	South ARE Store
1 no.	KUNZ Spreader Beam CAT 4	South ARE Store
2 no.	KUNZ Alignment Beam CAT 4	South ARE Store

Debogging		
1 nos.	Polyester Round Slings (30M / 55t)	South ARE Store
4 nos.	Polyester Round Slings (4M / 55t)	South ARE Store
5 nos.	Polyester Round Slings (4M / 30t)	South ARE Store
2 nos.	Pulley AETS 55 (110t)	South ARE Store
4 nos.	Shackles (55t)	South ARE Store
2 nos.	Load Cell (Range 0 – 75t) with Hand Held Control for Debogging System	South ARE Store
4 nos.	Tow Lug Fitting for A380	South ARE Store
Tethering		
8 nos.	Tethering Winching Unit TU (32M / 3.2t)	South ARE Store
8 nos.	Steel Cable on Reel (30m)	South ARE Store
8 nos.	Earth Anchor-Set	South ARE Store
8 nos.	Tension meter for Tethering System	South ARE Store
Ground Reinforcement		
2 nos.	Mammoth mat (Robusta Holland, 25m x 4m)	South ARE Store
16 nos.	Cribbing timber (3050 x 300 x 300mm)	South ARE Store
14 nos.	Cribbing timber (2600 x 210 x 125mm)	South ARE Store
Flotation Bags		
27 nos.	Flotation bag (Seaflex)	South ARE Store (Airbag Room)
62 nos.	Flotation bag strips (6m)	South ARE Store (Airbag Room)
63 nos.	Flotation bag strips (12m)	South ARE Store (Airbag Room)
73 nos.	Flotation bag strips (18m)	South ARE Store (Airbag Room)
3 nos.	Air hose	South ARE Store (Airbag Room)
3 nos.	Air hose connector	South ARE Store (Airbag Room)
3 nos.	Glue	South ARE Store (Airbag Room)

Other Equipment		
1 no.	Mobile Liaison Centre (Tractor: AA-01936, Container: AA-01971)	South ARE Store
1 no.	Medical Supplies Van (AA-01828)	South ARE Store
3 nos.	Emergency Unit	South ARE Store
1 no.	Air tent	South ARE Store
1 no.	Extendable tent	South ARE Store
3 nos.	Portable generator (Honda Gx340)	South ARE Store
60 nos.	Traffic light (DORMAN, yellow)	South ARE Store
64 nos.	Obstruction light (small, red, for marker board)	South ARE Store
29 nos.	Obstruction light (large, red, for marker board)	South ARE Store

Appendix 6A

Available at Airport Authority Aircraft Recovery Equipment Store and Observation Facility

Quantity	Description	Location
Aircraft Removal		
1 no.	Turntable (55t)	North ARE Store
1 no.	KUNZ Recovery Trailer (90t)	North ARE Store
1 no.	Skin-pressure Measuring Bag (FTE 55t)	North ARE Store (Airbag Room)
6 no.	Foam Mattresses (For Turntable)	North ARE Store (Airbag Room)
Airbags		
2 nos.	KUNZ Recovery Lift Bag Model: RLB 30-5 Capacity: 30t, 600mm lifting height	North ARE Store (Airbag Room)
16 nos.	KUNZ Recovery Lift Bag Model: RLB 30-3 Capacity: 30t, 600mm lifting height	North ARE Store (Airbag Room)
4 nos.	Portable Ejector	North ARE Store (Airbag Room)
8 nos.	Pneumatic Controller (PC14) with Water Separator	North ARE Store (Airbag Room)
8 nos.	Foam Mattresses (RLB 30 out)	North ARE Store (Airbag Room)
2 nos.	Compressor (DCA 16 & DCA 17)	North ARE Store (Airbag Room)
2 nos.	Water separator for compressor (DCA 16 & DCA 17)	North ARE Store (Airbag Room)
Jack System		
2 nos.	Regent jack (100t)	North ARE Store (Airbag Room)
1 no.	Regent jack (60t)	North ARE Store (Airbag Room)
2 nos.	Pneudraulic pumping unit for Regent jack (100t)	North ARE Store (Airbag Room)
1 no.	Pneudraulic pumping unit for Regent jack (60t)	North ARE Store (Airbag Room)
Debogging		
2 nos.	Polyester Round Slings (30M / 55t)	North ARE Store
4 nos.	Polyester Round Slings (4M / 55t)	North ARE Store
4 nos.	Polyester Round Slings (4M / 30t)	North ARE Store
2 nos.	Pulley AETS 55 (110t)	North ARE Store

Quantity	Description	Location
4 nos.	Shackles (55t)	North ARE Store
2 nos.	Load Cell (Range 0 – 55t) with Hand Held Control for Debogging System	North ARE Store
2 nos.	Load Cell (Range 0 – 75t) with Hand Held Control for Debogging System	North ARE Store
4 nos.	Tow Lug Fitting for A380	North ARE Store
Ground Reinforcement		
3 nos.	Mammoth mat (Robusta Holland, 25m x 4m)	North ARE Store
17 nos.	Cribbing timber (3050 x 300 x 300mm)	North ARE Store
15 nos.	Cribbing timber (2600 x 210 x 125mm)	North ARE Store
Flotation Bags		
13 nos.	Flotation bag (Seaflex)	North ARE Store
31 nos.	Flotation bag strips (6m)	North ARE Store
31 nos.	Flotation bag strips (12m)	North ARE Store
37 nos.	Flotation bag strips (18m)	North ARE Store
1 nos.	Air hose	North ARE Store
1 nos.	Air hose connector	North ARE Store
1 nos.	Glue	North ARE Store
Other Equipment		
3 nos.	Emergency Unit	North ARE Store
30 nos.	Traffic light (DORMAN, yellow)	North ARE Store
32 nos.	Obstruction light (small, red, for marker board)	North ARE Store
15 nos.	Obstruction light (large, red, for marker board)	North ARE Store

Available at AFSC Refuelling Ltd.

Contact: Roger Yeo Tel: **2286-6728**

Quantity	Description	Location
1 no.	Dual purpose refueller / defueller Capacity: 18,000l Defuelling rate: 1 reel hose 400l/min 2 reel hoses 800l/min	AFSC

Available at Worldwide Flight Services Fuelling (HK) Ltd.

Contact: Francis Ng

Tel: **2180-2548** Mobile: **9726-3344**

Quantity	Description	Location
1 no.	Browser / defueller Type: FTW-R 44.360 Capacity: 36,000l Defuelling rate: 950l/min	WFS

Available at China National Aviation Fuel

Contact: Tian-Tian DAI

Tel: **2995-9540** Mobile: **6915-2172**

Quantity	Description	Location
1 no.	Browser Capacity: 17,000l	CNAF

Available at AA Technical Service Department

Contact: Fault Response Team, Airfield Maintenance

Tel: **2183-5949**

Quantity	Description	Location
2 no.	Mobile Generator (100kVA)	AA TSD Depots
4 no.	Mobile light tower	AA TSD Depots
80 no.	Sandbag	AA TSD Depots

Available at the Government of HKSAR, Marine Department

Location: Vessel Traffic Centre

Contact: Mr. LING Wai Ming Tel: **2309-5003**

Quantity	Description	Location
1 no.	Survey launch (Approx. 15m)	Government Dockyard, Stonecutters Islands

Available at the Government of HKSAR, Fire Service Department

Contact:

Divisional Officer (Diving) - CHAN Man-fai

Tel: **2195-2310 / 6293-4651**

Assistant Divisional Officer (Diving)1 - TAM Hoi-fai

Tel: **2195-2311 / 6173-2363**

Assistant Divisional Officer (Diving)2 - YIM Wing-chung

Tel: **2195-2312 / 6293-4765**

2 nos.	1. Diving Support Vessel (DSV) - Approx. 21m 2. Diving Support Speedboat (DSSBt) - 14.5m	Government Dockyard, Stonecutters Islands
1 no.	Diving Support Speedboat (DSSBt) – 14.5m	Tuen Mun Temporary Speedboat Deployment Point

Appendix 6A

Available at the Government of HKSAR, Electrical and Mechanical Services Department

Contact:

EMSD maintenance Service Hotline (24 hours)

Tel.: **2333-3762**

Mr. LEUNG TAK MAN, TM (Airport Authority's Equipment Team, EMSD)

Tel: **2183-6676** Mobile: **6792-1257**

Quantity	Description	Location
1 set	Generating Set (200kVA)	Kowloon Bay Depot
4 sets	Floodlights (Twin 200W Tripod Worklight)	Kowloon Bay Depot
1 set	Oxygen and Acetylene Cutting Set	Kowloon Bay Depot
2 nos.	Light Recovery Vehicle	Hong Kong Depot / Tuen Mun Depot /Fan Garden Depot
4 nos.	Medium Recovery Vehicle	Kowloon Bay Depot / Siu Ho Wan Depot
1 no.	Car Carrier Recovery Vehicle	Siu Ho Wan Depot

Available at Hong Kong Aircraft Engineering Company Ltd. (HAECO)

Contact: Julian Potter

Tel: **2767-3614** Mobile: **6343-7255**

Quantity	Description	Location
1 no.	Bottle Jack SWL 10Tons	Hanger 1 Tool Room
1 no.	Bottle Jack SWL 12Tons	LMTR Tool Room
1 no.	Bottle Jack SWL 20Tons	LMTR Tool Room
1 no.	Bottle Jack SWL 40Tons	LMTR Tool Room
5 nos.	Axle Jacks 35T	LMTR Tool Room
1 no.	Axle Jacks 50T	LMTR Tool Room
7 nos.	Axle Jacks 65T	LMTR Tool Room
1 no.	Axle Jacks 85T	LMTR Tool Room
11 nos.	Axle Jacks 95T	LMTR Tool Room
1 no.	Axle Jack 165T	LMTR Tool Room
2 nos.	Adaptor for A380	LMTR Tool Room
2 nos.	Recovery Axle Jack - 65T Malabar	LMTR /Rear of HGR 3
1 no.	Recovery Axle Jack - 95T Malabar	LMTR /Rear of HGR 3
2 nos.	Recovery Axle Jack - 45T Regent (Rhino Jack)	LMTR /Rear of HGR 3
1 no.	Recovery Axle Jack - Hydro	LMTR
6 no.	Atlas Copco Air Compressors	LMMB Tool Room
4 no.	Shock Strut Retention Tool	LMMB Tool Room
1 Box	Shackles - Various SWL 2tons - 8.5tons	LMMB Tool Room
1 Box	Shackles - Various SWL 2tons - 8.5tons	LMTR Tool Room
4 no.	Chain Hoist - SWL 1000 lbs	LMTR Tool Room
2 no.	Chain Hoist - SWL 1100 lbs	LMMB Tool Room
2 no.	Chain Hoist - SWL 1120 lbs	LMMB Tool Room
6 no.	Chain Hoist - SWL 1600 lbs	LMMB Tool Room
2 no.	Chain Hoist - SWL 2000 lbs	LMMB Tool Room
5 no.	Chain Hoist - SWL 2240 lbs	LMMB Tool Room
4 no.	Chain Hoist - SWL 6600 lbs	LMMB Tool Room
4 no.	Chain Hoist - SWL 9000 lbs	LMMB Tool Room
10 no.	Chain Hoist - SWL 12000 lbs	LMMB Tool Room
2 no.	Chain Hoist - SWL 15000 lbs	LMMB Tool Room
6 no.	Brake Removal Hoist - SWL 600lbs	LMTR Tool Room

Appendix 6A

Quantity	Description	Location
2 no.	Bolt Cutter	LMTR Tool Room
4 no.	Sledge Hammers 5lb	LMTR Tool Room
4 no.	High Pressure Pneumatic Hoses	LMTR Tool Room
2 no.	Low Pressure Pneumatic Hose	LMTR Tool Room
4 no.	Landing Gear Oleo Servicing Kits	LMTR Tool Room
40 no.	Standard Tripod Jacks - Wing 25T - 120T	HGR 1 Outside
20 no.	Standard Tripod Jacks - Nose 10T - 60T	HGR 1 Outside
10 no.	Standard Tripod Jacks - Tail 15T - 60T	HGR 1 Outside

Available at China Aircraft Services Limited (CASL)

Contact: Inness P.K. Tse

Tel: **2261-2356** Mobile: **9721-2878**

Quantity	Description	Location
1 no.	10 tons axle jack	LM Store
2 nos.	15 tons axle jack	LM Store
1 no.	20 tons axle jack	LM Store
2 nos.	35 tons axle jack	LM Store
1 no.	65 tons axle jack	LM Store
2 nos.	85 tons axle jack	LM Store
1 no.	90 tons axle jack	LM Store
2 nos.	150 tons axle jack	LM Store
12 nos.	Aircraft jack	BM
20 nos.	Tractors	LM Ramp
100 nos.	Tow Bars	LM Ramp

Heavy Lifting equipment Contractors:

1. Kania Logistics Ltd

Address: Room 1426, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, NT

Contact: Mr. Kenneth Leung / Mr. Stephen Lau

Tel: **2422-1792** Mobile: **9091-8269**

Barge Hatch Cover		
Weight	Dimensions	Quantity
10 tonnes	13,500 x 2,750 x 4,750mm	10 nos.
18 tonnes	15,650 x 2,750 x 500mm	12 nos.

2. Kanson Crane Service Co. Ltd.

Address: DD124, Lot 3370-6, Yick Yuen Tsuen, Hung Shui Kiu Road, N.T.

Contact: Sharon Yiu Tel: **2395-6566**

Ray Tong Tel: **6291-7184**

Mobile Crane Truck List							
Make	Model	Max. Cap. (ton)	Axle	Main Boom (m)	Fly Jib (m)	Remark	Quantity
Liebherr	LTM1750-9.1	750	9	52	-	Superlift	1 no.
Liebherr	LTM1500-8.1	500	8	84	42	Superlift	2 nos.
Liebherr	LTM1500-8.1	500	8	50	42	Superlift	1 no.
Grove	GMK6400	400	6	60	64/79^	Superlift/ Luffing Jib	1 no.

Appendix 6A

Demag	AC350	350	6	56	49.5/71.5^	Superlift/ Luffing Jib	1 no.
Grove	GMK6300L	300	6	80	37	-	1 no.
Liebherr	LTM1300-6.2	300	6	78	35	-	1 no.
Demag	AC250-1	250	6	80	36	-	1 no.
Liebherr	LTM1220-5.2	220	5	60	7+36	-	1 no.
Liebherr	LTM1220-5.1	220	5	60	7+36	-	1 no.
Liebherr	LTM1200-5.1	200	5	72	36	-	4 nos.
Liebherr	LTM1200/1	200	5	60	36	-	1 no.
Liebherr	LTM1160/1	160	5	60	36	-	1 no.
Liebherr	LTM1100-4.2	100	4	60	19	-	10 nos.

Bogies & Trailers List:						
Make	Model	Payload (ton)	Axle	Type	Remark	Quantity
Goldhofer	THP6	183.68	6	Bogie	-	1 no.
Goldhofer	THP4	122.4	4	Bogie	-	4 nos.
Goldhofer	THP3	91.8	3	Bogie	-	2 nos.
Goldhofer	THP2	61.2	2	Bogie	-	2 nos.
Goldhofer	SPZ-DH4	60.9	4	Ext. Length Trailer	Length 14.85m to 38.42m	2 nos.
Goldhofer	STZ-DH4	82.3	4	Ext. Length Trailer	Length 15.5m to 30.5m	1 no.
Brentwood	Bw8038DD	89.425	3	Variable Width Loader-Semi Trailer	Width 2.5m to 4.3m	1 no.
SuperTime	PC9480TPB	42	3	40ft Trailer	-	5 nos.
SuperTime	STEC-42- 4ASLB	80	4	Low-Bed Trailer	-	5 nos.

3. Tai Wah Sea & Land Heavy Transportation Limited

Address: 15/F., 48 Man Fai Building, Man Ying Street, Ferry Point, Kowloon, Hong Kong

Contact: Jack Ho

Tel: **2388-7578** Mobile: **9474-4274**

Heavy Duty Tractors				
Make	Model	Payload	Power	Remark
Mercedes Benz	Euro 5/6	250 tonnes	Max 653 HP/480kW	Max Torque 3000 Nm

Heavy Trailers and Modular trailer combinations				Type	Remark
Make	Model	Payload	Axle	Type	Remark
Goldhofer	THP/SL	45 tonnes	From 2 to 12	Modular Trailer	
Drake		137 tonnes	3	Trailers	Max. width 4.27m, Width extendible
Goldhofer	STZ & MPA	152 tonnes	6 & 8	Trailers	Max. length 22.6m, Length extendible
Floating Crane					
1. Length: 59.95 meters 2. Beam: 27.50 meters 3. Depth: 6.60 meters 4. Lifting System: Hydraulic Winch 5. Tonnage: 3647 tons					
Barge Hatch Cover					
Weight		Dimensions		Quantity	
Max - 400tonnes Auxiliary – 150tonnes		39m x 20x 6.4m		12 no.	