

The following checklists are to be used during an aerodrome RFFS inspection/ audit.

- a) Level of protection to be provided, as well as he level of back-up supplies required. Chapter 2 of Doc 9137-AN/898. Checklist RFFS 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10
- Airport facilities affecting Rescue and Fire-fighting Services. Chapter 3 of Doc 9137-AN/898. Checklist RFFS 11
- c) Communications and alarm requirements. Chapter 4 of Doc 9137-AN/898. Checklist RFFS 12
- d) Factors in the specifications process for Rescue and Fire-fighting vehicles. Here only existing vehicles will be tested for compliance. Chapter 5 of Doc 9137-AN/898. Checklist RFFS 5, 13, 14 and 15.
- e) Protective clothing and respiratory equipment. Chapter 6 of Doc 9137-AN/898. Checklist RFFS 16 and 17.
- f) Ambulance and Medical Services. Chapter 7 of Doc 9137-AN/898. Checklist RFFS 18.
- g) Extinguishing agent characteristics. Chapter 8 of Doc 9137-AN/898. Checklist RFFS 19
- h) Fire stations. Chapter 9 of Doc 9137-AN/898. Checklist RFFS 20 and 21.
- i) Personnel. Chapter 10 of Doc 9137-AN/898. Checklist SACAA. Fire. Doc 22.
- j) Emergency organisations. Chapter 11 of Doc 9137-AN/898 and Doc 7192-AN/857 Appendix E2. Checklist RFFS 11.
- k) Airport fire-fighting and rescue procedures. Chapter 12 of Doc 9137-AN/898. Checklist Checklist RFFS 24 & 25
- l) Rescue in difficult environments. Chapter 13 of Doc 9137-AN/898. Checklist RFFS 26
- m) Training. Chapter 14 of Doc 9137-AN/898 Part 1. And Doc 9137-AN/898 Pert 7. Checklist RFFS 27.
- n) Foaming of runways for emergency landings. Chapter 15 of Doc 9137-AN/898. Checklist RFFS 28.
- o) Aircraft fuelling practices. Chapter 16 of Doc 9137-AN/898. Checklist RFFS 29.

p) Availability of rescue and fire-fighting information. Chapter 17 of Doc 9137-AN/898. Checklist RFFS 30.

The checklists commencing on the next page have been compiled in accordance with ICAO Doc. 9137-AN/898, Part 1 and will be used during the airport inspection/ audit.

ICAO Doc. 9137 - Chapter 2: Level of Protection to be Provided

No.	Questions	Yes	No	N/A	Note No.
1	Is the Fire Service compliant with the aerodrome license?				
2	Is the minimum useable amount of water for fire				
	extinguishment maintained?				
3	Is the minimum foam compound available for the				
	depletion of two loads of water carried on the vehicles?				
4	Is the minimum required complementary agent available on the				
	vehicles?				
5	Is the quantity of available foam compound, compliant with the				
	level of foam used?				
6	Are the operations limited to the size of aircraft what the airpor				
	is licensed for?				
7	Does the airport have a fire-prevention program?				
8	Does this programme include all areas of the aerodrome?				
9	Does the aerodrome ARFFS make provision for rescue work in				
	the event of an accident?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 3: Airport facilities affecting Rescue and Fire Fighting Services

No.	Questions	Yes	No	N/A	Note No.
1	Are there any Hydrants available on the Aerodrome?				
2	Are there adequate emergency access roads on the aerodrome?				
3	Are these roads maintained?				
4	Are there any emergency gates on the aerodrome?				
5	Are these gates accessible to the emergency vehicles?				
6	Is there any additional water available for fire fighting on the				
	airport?				
7	Is the pressure in the hydrants sufficient to enable rapid filling				
	of vehicles?				
8	Does the aerodrome have an appointed fire prevention				
	officer/s?				
9	Does the aerodrome have a fire prevention program?				
10	Are there any records as require to this effect?				

Note No.	Comments

Auditor's Name: Signature:

Date:

ICAO Doc. 9137 - Chapter 4: Communication and Alarm Requirements

No.	Questions	Yes	No	N/A	Note No.
1	Are there any communication and alarm notification systems in				
	place?				
2	Is the alarm system tested regularly?				
3	Are there any radios available for communication with ATC,				
	Airport Management, or airline?				
4	Are these radios on the required frequency?				
5	Is the quantity sufficient to enable communication between				
	vehicle operators, Control personnel and rescue operators?				
6	Has all personnel been properly trained in radiotelephony and				
	licensed accordingly?				
7	Are there any telephone or other type of system available to				
	summon assisting parties to the aerodrome emergency				
	procedure/ plan?				
8	Are these equipment tested regularly?				
9	Is the result of these tests properly recorded?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 5: Factors in the Specification process for Rescue and Fire Fighting Vehicles

No.	Questions	Yes	No	N/A	Note No.
1	Does the vehicle's have off road capability?				
2	Are the vehicle's tyres of an off road type?				
3	Does the foam induction systems work properly?				
4	Provide proof of regular testing of induction system. At least				
	two monthly.				
5	Is the available equipment as per ICAO requirement?				
6	Does all the fire appliance valves operate properly?				
7	Are the rescue equipment maintained?				
8	Are there any records available to substantiate the serviceability				
	of the required pieces of equipment?				
9	Is the vehicles foam carrying capacity as required to discharge				
	2 loads of water?				
10	Does all emergency lighting operate properly?				
11	Can the vehicles achieve the required speed within the				
	prescribed time frame?				
12	Can the vehicle reach the threshold of the furthest runway and				
	discharge half of its contents within the required times?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 5: Equipment for rescue operations Airport Category

	Airport Category				
Equipment for rescue operations	1-2	3-5	6-7	8-10	
Adjustable wrench	1	1	1	1	
Axe, rescue, large non-wedge type	1	1	1	1	
Axe, rescue, small non-wedge or aircraft type	1	2	4	4	
Cutter bolt, 61 cm	1	1	1	1	
Crowbar, 95 cm	1	1	1	1	
Crowbar, 1.65 cm	-	-	1	1	
Chisel, cold 2.5 cm	-	1	1	1	
Flashlight/hand lamps	2	3	4	8	
Hammer, 1.8 kg	-	1	1	1	
Hook, grab or salving	1	1	2	3	
Saw, metal cutting or hacksaw, heavy duty, complete	1	1	1	1	
with spare blades					
Blanket, fire resisting	1	1	2	3	
Ladder, extending (of over-all length appropriate to the	1	1	2	3	
aircraft types in use)					
Rope line, 15m length	1	1	2	3	
Rope line, 30 m length	-	-	2	3	
Pliers, 17.8 cm, side cutting	1	1	1	1	
Pliers, slip joint 25 cm	1	1	1	1	
Screwdrivers, assorted (set)	1	1	1	1	
Snippers, tin	1	1	1	1	
Chocks, 15 cm high	-	-	1	1	
Chocks, 10 cm high	1	1	-	-	
Powered rescue saw complete with two blades; or -	1	1	1	2	
pneumatic rescue chisel complete – plus spare cylinder,					
chisel, and retaining spring					
Seat belt/ harness cutting tool	1	2	3	4	
Gloves, flame resistant pairs (unless issued to individual	2	3	4	8	
crew member)					
Breathing apparatus and spare cylinder	(One set per fire	e fighter on du	ty	
Oxygen inhaler	-	1	1	1	
Hydraulic or pneumatic forcing tool	-	1	1	1	
Medical first aid kit	1	1	2	3	
Tarpaulin	1	1	2	3	
Fan for ventilation and cooling	-	1	2	3	
Protective clothing	Protective clothing One set per fire fighter on duty				
Stretcher Chamter 5, Dec 0127 ANS	1	2	2	2	

Chapter 5, Doc 9137-AN/898, Third edition 1990

& Guidance material related to rescue equipment carried on RFF vehicles (Airport Services Manual)

Auditor's Name:
Signature:
Date:

ICAO Doc. 9137 - Chapter 6: Protective Clothing and Respiratory Equipment

No.	Questions	Yes	No	N/A	Note No.
1	Is every individual fire fighter equipped with				
	protective clothing?				
2	Does every fire fighter have protective gloves?				
3	Does every fire fighter have fire resistant boots?				
4	Does every fire fighter have fire hoods?				
5	Does the aerodrome have proximity suits?				
6	Are there sufficient Breathing apparatus sets?				
7	Are these sets tested regularly?				
8	Are there any records to substantiate the above?				
9	Have these Breathing apparatus sets been				
	subjected to pressure tests as required?				
10	Are there any records to substantiate this?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 7: Ambulance and Medical Service

No.	Questions	Yes	No	N/A	Note No.
1	Does the airport have a clinic or a first aid room as required?				
2	Is the clinic or first aid room suitably equipped?				
3	Are there any medical supplies or first aid kits available on the				
	fire engines?				
4	Is there an ambulance available on the airport?				
5	If not, is there any agreement in place to have an ambulance be				
	made available within reasonable time, if needed?				
6	Are these agreement/s current?				
7	Are these ambulances suitable type and equipped to deal with aircraft disasters?				
8	If yes, is it regularly serviced and are there any records available?				
9	Are the medical supplies on the airport regularly checked for expiring dates?				
10	Provide a list of medical supplies at airport.				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 8: Extinguishing Agent Characteristics

No.	Questions	Yes	No	N/A	Note No.
1	Is the complimentary agent compatible with the primary				
	extinguishing agent? Provide proof?				
2	What percentage foam concentrate is used? 3%, 6% or 9%				
3	Is this foam SABS approved? Provide proof?				
4	Is the storage facility of the supplementary 200% extinguishing				
	agent adequate? (Both primary and supplementary).				
5	Was the viscosity of the foam tested?				
6	Are there any records to this effect available?				
7	Was the type of foam used, approved by the SARPS?				
8	Is a copy of the SARPS certificate available?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 9: Fire Stations

No.	Questions	Yes	No	N/A	Note No.
1	Does the airport have a fire station?				
2	Can the fire station house all the vehicles?				
3	If not, how and where are the vehicles housed?				
4	Is sufficient accommodation available for the				
	required level of personnel?				
5	Is there any accommodation available for the fire				
	fighters?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 10: Personnel

No.	Questions	Yes	No	N/A	Note No.
1	Are sufficient fire personnel available to utilise the fire vehicles				
	effectively? Including the hand-lines.				
2	Are there personnel available to utilise the rescue equipment				
	simultaneously with the fire fighting process?				
3	Total number of fire fighting personnel?				
4	Number of fire fighting personnel per shift?				
5	Are these numbers published in the AIP?				
6	Has the personnel numbers been adjusted during the past 12				
	months?				
7	Was this done after consultation with the Director General of				
	Civil Aviation?				
8	Was this adjustment done in accordance with recategorisation				
	of the aerodrome? Up or down?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 11: Emergency Organisations

No.	Questions	Yes	No	N/A	Note No.
1	Does the airport have an emergency manual?				
2	Was this Manual submitted to and Approved by the CAA?				
3	Is a copy of this manual available to all firemen?				
4	Does this manual contain a grid reference chart, which includes				
	a ten-kilometre radius from the aerodrome?				
5	Is a grid reference chart available on each fire-fighting vehicle?				
6	Did the prescribed annual emergency exercise take place?				
7	Can rescue & fire fighting operations be performed up to the 10				
	kilometre radius from the airport?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 12: Aircraft Fire Fighting and Rescue Procedures

No.	Questions	Yes	No	N/A	Note No.
1	Does the fire fighting personnel know the appropriate				
	techniques to enter or break into an aircraft structure?				
2	Did all fire personnel receive aircraft construction for fire				
	fighters?				
3	Is all the fire fighters certified in aircraft construction for fire				
	fighters?				
4	Does all personnel know how to initiate the appropriate fire				
	fighting techniques for an aircraft wheel fire?				
5	Does all firemen know how to position the fire appliances to				
	achieve the best possible fire fighting capability at a potential				
	aircraft accident?				
6	Are clearly defined instructions available for immediate				
	reaction to an aircraft accident?				
7	Are these instructions clearly depicted on the daily duty roster?				•
8	Is there any documentation to substantiate the above?				

Note No.	Comments

Auditor's Name
Signature:
Date:

ICAO Doc. 9137 - Chapter 13: Rescue Operations in Difficult Environment

No.	Questions	Yes	No	N/A	Note No.
1	Is a process defined to address possible unforeseen scenarios				
	such as swampy areas, large masses of water or a possible				
	accident at sea?				
2	If not self-provided for, does the airport have agreements with				
	the other bodies such as the NSRI?				
3	Is a copy of such agreement available?				
4	Is a process defined to address possible				
	unforeseen scenarios such as deserts or				
	mountainous areas? or any other type of areas				
	unique to your specific aerodrome?				
5	Is there any proof of agreements available?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 14: Training

No.	Questions	Yes	No	N/A	Note No.
1	Did all the fire personnel receive ongoing/ refresher aircraft				
	construction related training?				
2	Is individual records kept of all fire related training?				
3	Does the personnel periodically have live/ hot fire drills? At				
	what frequency? Monthsweeks				
4	Are these training records available?				
5	Is all fire fighting vehicle drivers certified as competent on the				
	vehicle entrusted to them?				
6	How frequently are these personnel subjected to				
	re-testing? Annually: Bi Annually				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 15: Foaming of Runways for Emergency Landings

No.	Questions	Yes	No	N/A	Note No.
1	Is the aerodrome capable of providing runway foaming?				
2	If yes, can the vehicles be replenished before the aircraft is				
	allowed to land?				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 16: Aircraft Fuelling Practices

No.	Questions	Yes	No	N/A	Note No.
1	Does the fire-crew do periodic inspection on the aircraft				
	fuelling processes?				
2	Is the bonding of aircraft and vehicles monitored?				
3	Does the refuelling personnel offload the fire				
	extinguishers during refuelling and placing the				
	strategically?				
4	Are all refuelling personnel adequately trained?				
5	Does the Airport Management have copies of the				
	refuelling personnel's competency certificates?				
6	Are al the refuelling vehicles inspected				
	periodically and certified as safe?				
7	Does Airport Management monitor the above?				
8	Is record thereof available?				
9	Is all fuel on the aerodrome stored in appropriate				
	containers or storage facilities				

Note No.	Comments

Auditor's Name: Signature: Date:

ICAO Doc. 9137 - Chapter 17: Availability of Rescue and Fire Fighting Information

No.	Questions	Yes	No	N/A	Note No.
1	Is all the relevant information pertaining to the fireservices as				
	required in paragraph 2.6, published in the Aeronautical				
	Information Publication (AIP)?				
2	Does this information contain the number of personnel per shift				
	during hours of operation?				
3	Is the ATC and airlines notified of deviations from				
	the published personnel strength?				
4	Is there any objection to the CAA publishing this				
	information?				

Note No.	Comments

Auditor's Name: Signature: Date: