

	TANZANIA CIVIL AVIATION AUTHORITY SAFETY REGULATION AERODROMES AND GROUND AIDS	Revision: 0
Document No. TCAA/FRM/SR/AGA-17	CHECKLIST FOR ASSESSMENT OF RESCUE AND FIRE FIGHTING SERVICES (RFFS)	Page 1 of 16

AERODROME:	ICAO REF CODE:	REPORTED FIRE CAT:
NAME OF INSPECTOR:	DATE:	

KEY: S = Satisfactory, U = Unsatisfactory, N/C = Not Checked

Ref Doc: Civil Aviation (Aerodromes) Regulations, Manual of Aerodrome Standards. Manual of Aerodromes Certification, ICAO Doc 9137 AN/898

LEVEL OF PROTECTION TO BE PROVIDED					
No.	Item	S	U	N/C	Remarks
1	Does the aerodrome operator provide information concerning the level of protection available at an aerodrome for aircraft rescue and fire fighting (RFF) purposes?				
2	Is the fire service compliant with the aerodrome certificate?				
3	Is the minimum required complementary agent available on the vehicles?				
4	Is the minimum foam compound available for the depletion of two loads of water carried on the vehicles?				
5	Is the minimum required complementary agent available on the vehicles?				
6	Is the quantity of available foam compound, compliant with the level of foam used?				
7	Are the operations limited to the size of aircraft what the aerodrome is certified for?				
8	Does the aerodrome have a fire-prevention program?				
9	<i>Does this programme include all areas of the aerodrome?</i>				
10	<i>Does the aerodrome RFFS make provision for rescue work in the event of an accident?</i>				

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AERODROME FACILITIES AFFECTING THE RFFS

No.	Item	S	U	N/C	Remarks
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	<i>Are there any emergency gates on the aerodrome?</i>				
5	<i>Are these gates accessible to the emergency vehicles?</i>				
6	<i>Is there any additional water available for fire fighting on the aerodrome?</i>				
7	<i>Is the pressure in the hydrants sufficient to enable rapid filling of vehicles?</i>				
8	<i>Does the aerodrome appointed fire prevention officer/s?</i>				
9	<i>Does the aerodrome have a fire prevention program?</i>				
10	<i>Are there any records as require to this effect?</i>				

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COMMUNICATION AND ALARM REQUIREMENTS


No.	Item	S	U	N/C	Remarks
1	<i>Are there any communication and alarm notification systems in place?</i>				
2	<i>Are there a discrete communication system and an alerting system among vehicles, fire stations and aerodrome control towers?</i>				
3	<i>Is the alarm system tested regularly?</i>				
4	<i>Are there any radios available for communication with ATC, Aerodrome Management?</i>				
5	<i>Are these radios on the required frequency?</i>				
6	<i>Is the quantity sufficient to enable communication between vehicle operators, Control personnel and rescue operators?</i>				
7	<i>Has all personnel been properly trained in radiotelephony?</i>				
8	<i>Is there any telephone or other type of system available to summon assisting parties to the aerodrome emergency procedure/ plan?</i>				
9	<i>Are these equipment tested regularly?</i>				
10	<i>Is the result of these tests properly recorded?</i>				

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FACTORS IN THE SPECIFICATION PROCESS FOR RFFS VEHICLES					
No.	Item	S	U	N/C	Remarks
1	Are the vehicle's have off road capability?				
2	Are the vehicle's tyres of an off road type?				
3	Do 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	<i>Do all the fire appliance valves operate properly?</i>				
7	<i>Are the rescue equipment maintained?</i>				
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	<i>Does all emergency lighting operate properly?</i>				
11	<i>Can the vehicles achieve the required speed within the prescribed minimum response time?</i>				
12	<i>Can the vehicle reach the threshold of the furthest runway and discharge half of its contents within the required times?</i>				

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Equipment for rescue operations	Aerodrome Fire Category			
	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
Blanket, fire resisting	1	1	2	3
Ladder, extending (of over-all length appropriate to the	1	1	2	3
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 – pneumatic rescue chisel complete – plus spare	1	1	1	2
Seat belt/ harness cutting tool	1	2	3	4
Gloves, flame resistant pairs (unless issued to individual	2	3	4	8
Breathing apparatus and spare cylinder	One set per fire fighter on duty			
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	One set per fire fighter on duty			
Stretcher	1	2	2	2

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Chapter 5, Doc 9137-AN/898, Third edition 1990 (Airport Services Manual)

PROTECTIVE CLOTHING AND RESPIRATORY EQUIPMENT					
No.	Item	S	U	N/C	Remarks
1	Is every individual fire fighter equipped with protective clothing?				
2	<i>Does every fire fighter have protective gloves?</i>				
3	<i>Does every fire fighter have fire resistant boots?</i>				
4	<i>Does every fire fighter have fire hoods?</i>				
5	<i>Does the aerodrome have proximity suits?</i>				
6	<i>Are there sufficient breathing apparatus sets?</i>				
7	<i>Have these breathing apparatus sets been subjected to pressure tests as required?</i>				
8	<i>Are there any records to substantiate this?</i>				

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

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CHARACTERISTICS OF EXTINGUISHING AGENTS
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No.	Item	S	U	N/C	Remarks
1	Is the complimentary agent compatible with the primary extinguishing agent?				
2	What percentage foam concentrate is used? 3%, 6% or 9%				
3	<i>Is this foam approved by standards?</i>				
4	Is the storage facility of the supplementary 200% extinguishing agent adequate? <i>(Both primary and supplementary)</i>				
5	<i>Was the viscosity of the foam tested?</i>				
6	<i>Are there any records to this effect available?</i>				
7	<i>Was the type of foam used, approved?</i>				
8	<i>Is a copy of the approval certificate available?</i>				

COMMENTS	
Appearance	Colourless
Density	1.013 g/ml ± 0.020
pH	7.0 – 8.5
Surface Tension (6% Solution)	18 ± 1 dynes/cm
Viscosity	2 ± 1 centistoke

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FIRE STATION					
No.	Item	S	U	N/C	Remarks
1	Does the aerodrome have a fire station?				
2	Can the fire station house all the vehicles?				
3	<i>If not, how and where are the vehicles housed?</i>				
4	<i>Is sufficient accommodation available for the required level of personnel?</i>				
5	<i>Is there any accommodation available for the fire fighters?</i>				

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PERSONNEL					
No.	Item	S	U	N/C	Remarks
1	Are sufficient fire personnel available to utilise the fire vehicles effectively?				
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	<i>Are these numbers published in the AIP?</i>				
6	<i>Has the personnel numbers been adjusted during the past 12 months?</i>				
7	<i>Was this done after consultation with the Director General of Civil Aviation?</i>				
8	<i>Was this adjustment done in accordance with re-categorisation of the aerodrome? Up or down?</i>				

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AIRCRAFT RESCUE AND FIRE FIGHTING PROCEDURES					
No.	Item	S	U	N/C	Remarks
1	Do the fire fighting personnel know the appropriate techniques to enter or break into an aircraft structure?				
2	<i>Have all fire personnel receive training on aircraft design and construction?</i>				
3	<i>Are all the fire fighters certified in aircraft construction for fire fighters?</i>				
4	Do all personnel know how to initiate the appropriate fire fighting techniques for an aircraft wheel fire?				
5	Do 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	<i>Are these instructions clearly depicted on the daily duty roster?</i>				
8	<i>Is there any documentation to substantiate the above?</i>				

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RESCUE OPERATION IN DIFFICULT ENVIRONMENT					
No.	Item	S	U	N/C	Remarks
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	<i>If not self-provided for, does the aerodrome have agreements with the other bodies?</i>				
3	<i>Is a copy of such agreement available?</i>				
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	<i>Is there any proof of agreements available?</i>				

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TRAINING					
No.	Item	S	U	N/C	Remarks
1	<i>Are there sufficient trained personnel to operate all the necessary RFF equipment at maximum capacity available at the aerodrome?</i>				
2	<i>Have all the fire personnel receive on-going/ refresher training?</i>				
3	Are individual records kept in dedicated training files or system?				
4	<i>Do the personnel periodically have live/ hot fire drills? At what frequency?</i>				
5	Are these training records available?				
6	Are all fire fighting vehicle drivers certified as competent on the vehicle entrusted to them?				
7	<i>How frequently are these personnel subjected to re-testing?</i>				

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FOAMING OF RUNWAYS FOR EMERGENCY LANDING					
No.	Item	S	U	N/C	Remarks
1	Is the aerodrome capable of providing runway foaming?				
2	<i>If yes, can the vehicles be replenished before the aircraft is allowed to land?</i>				


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AIRCRAFT FUELLING AND DEFUELLING PROCESSES					
No.	Item	S	U	N/C	Remarks
1	Does the aircraft crew conduct periodic inspections of aircraft fuelling process?				
2	<i>Is the bonding of aircraft and vehicles monitored?</i>				
3	<i>Does the refuelling personnel provide the fire extinguishers and are placed the strategically during refuelling?</i>				
4	<i>Are all refuelling personnel adequately trained?</i>				
5	<i>Does the Aerodrome Management have copies of the refuelling personnel's competency certificates?</i>				
6	<i>Are all the refuelling vehicles inspected periodically and certified as safe?</i>				
7	<i>Does Aerodrome Operational Management monitor refuelling or defueling practices?</i>				
9	<i>Is all fuel on the aerodrome stored in appropriate containers or storage facilities</i>				

COMMENTS

AVAILABILITY OF RFFS PUBLISHED INFORMATION					
No.	Item	S	U	N/C	Remarks
1	Is all relevant information pertaining to the fire services published in the Aeronautical Information Publication (AIP)?				
2	<i>Does this information contain the number of personnel per shift during hours of operation?</i>				
3	<i>Is the ATC and airlines notified of deviations from the published personnel strength and level of protection normally available at the aerodrome?</i>				
4	Is there any objection to the CAA publishing this information?				

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NAME OF INSPECTOR: _____ SIGNATURE _____ DATE _____
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