

SAFETY NOTICE

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REV.	0

AW189

CRASH CARD

GROUND EMERGENCY AND RESCUE OPERATIONS



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Table of Contents

INTRODUCTION.....	5
GENERAL INFORMATION.....	6
HAZARDS	10
SAFETY INFORMATION: GROUND STAFF (OUTSIDE THE HELICOPTER) 19	
ACCESS INTO THE HELICOPTER.....	20
ENGINE AND APU ACCESS.....	27
FIREFIGHTING RECOMMENDATIONS	29
SAFETY INFORMATION: GROUND STAFF (INSIDE THE HELICOPTER).....	30
PERSONNEL RESCUE	31
EMERGENCY APU AND ENGINE SHUTDOWN.....	32
NEXT OPERATIONS	36

Table of Figures

Figure 1 – Overall Dimensions [mm].....	6	Figure 27 – Hinged Passenger Emergency Exits - Opening Procedure.....	24
Figure 2 – Engines	7	Figure 28 – Baggage Door - Opening Procedure	25
Figure 3 – Fuel Tank Location	7	Figure 29 – Nose Radome Door - Opening Procedure.....	26
Figure 4 – Auxiliary Fuel Tank Location – Standard Configuration	8	Figure 30 – Engine Cowlings Opening Procedure	28
Figure 5 – Auxiliary Fuel Tank Location – Underbelly Configuration.....	8	Figure 31 – APU Cowling Opening Procedure	28
Figure 6 – Structural Materials – Fuselage	9	Figure 32 – Recommended Fire Fighting Agents	29
Figure 7 – Structural Materials	9	Figure 33 – Helmet Disconnection	31
Figure 8 – Hazards – Approach Cones.....	10	Figure 34 – Opening of the Safety Belt	31
Figure 9 – Hazards – Fragmentation	10	Figure 35 – APU Shutdown – Major Emergency/Fire	32
Figure 10 – Hazards – Pressure Recipients	11	Figure 36 – Engine Fuel Supply Interruption – Major Emergency/Fire	33
Figure 11 – Hazards – Explosive Charges	12	Figure 37 – APU Fire Extinguishing – Major Emergency/Fire	33
Figure 12 – Hazards – Batteries Location.....	13	Figure 38 – Engine Fire Extinguishing – Major Emergency/Fire.....	34
Figure 13 – Hazards – Hot Surfaces.....	14	Figure 39 – Normal APU Shutdown – Minor Emergency.....	34
Figure 14 – Hazards – Fuel Location.....	15	Figure 40 – Normal Engine Shutdown – Minor Emergency.....	35
Figure 15 – Hazards – APU	16	Figure 41 – Normal Pump and Shut Off Valve Closure – Minor Emergency.....	35
Figure 16 – Hazards – Pitots.....	16	Figure 42 – Rotor Brake	36
Figure 17 – Hazards – Emergency Floatation System	17	Figure 43 – Floatation System – De-activation	36
Figure 18 – Hazards – Emergency Life Rafts	17	Figure 44 – ELT System – De-activation	37
Figure 19 – Hazards – Emergency Location Transmitter	18	Figure 45 – Interruption of the Power Supply from the Control Panel	37
Figure 20 – Hazards – Igniter Boxes	18	Figure 46 – Battery Location and Disconnection Procedure.....	38
Figure 21 – Normal and Emergency Access Doors Scheme	20	Figure 47 – Adjustment of the Pilot Seats.....	39
Figure 22 – Pilot/Co-Pilot Door - Opening Procedure.....	21	Figure 48 – Removal of the Pilot Seats.....	39
Figure 23 – Pilot/Co-Pilot Emergency Exits - Opening Procedure	21		
Figure 24 – Sliding Passenger Door - Opening Procedure	22		
Figure 25 – Sliding Passenger Emergency Exits - Opening Procedure	23		
Figure 26 – Hinged Passenger Door - Opening Procedure.....	24		

INTRODUCTION

The purpose and objective of this card is to support ground personnel to respond to accident or incident crash-rescue operations on AW189 within their capability and training and to be able to rescue survivors of a crash in a safe, efficient manner. This crash card is not intended to cover every contingency which may arise, nor does the card detail every safety emergency ingress and egress practice. Specialized basic aircraft firefighting training should be sought to supplement the information contained herein.

It is intended that the AW189 configuration herein covered is generic and it is under the Operators' responsibility to estimate the applicability on their current configurations.

Moreover, this document will not be updated to be personalized for each operator in terms of both language and configuration used.

GENERAL INFORMATION

WEIGHT	[kg]
Empty Weight	5120-6120
Max Take off Weight	8600

OCCUPANCY	[pax]
Max Crew (Cockpit)	2
Max Passengers (Cabin)	Max 16/19

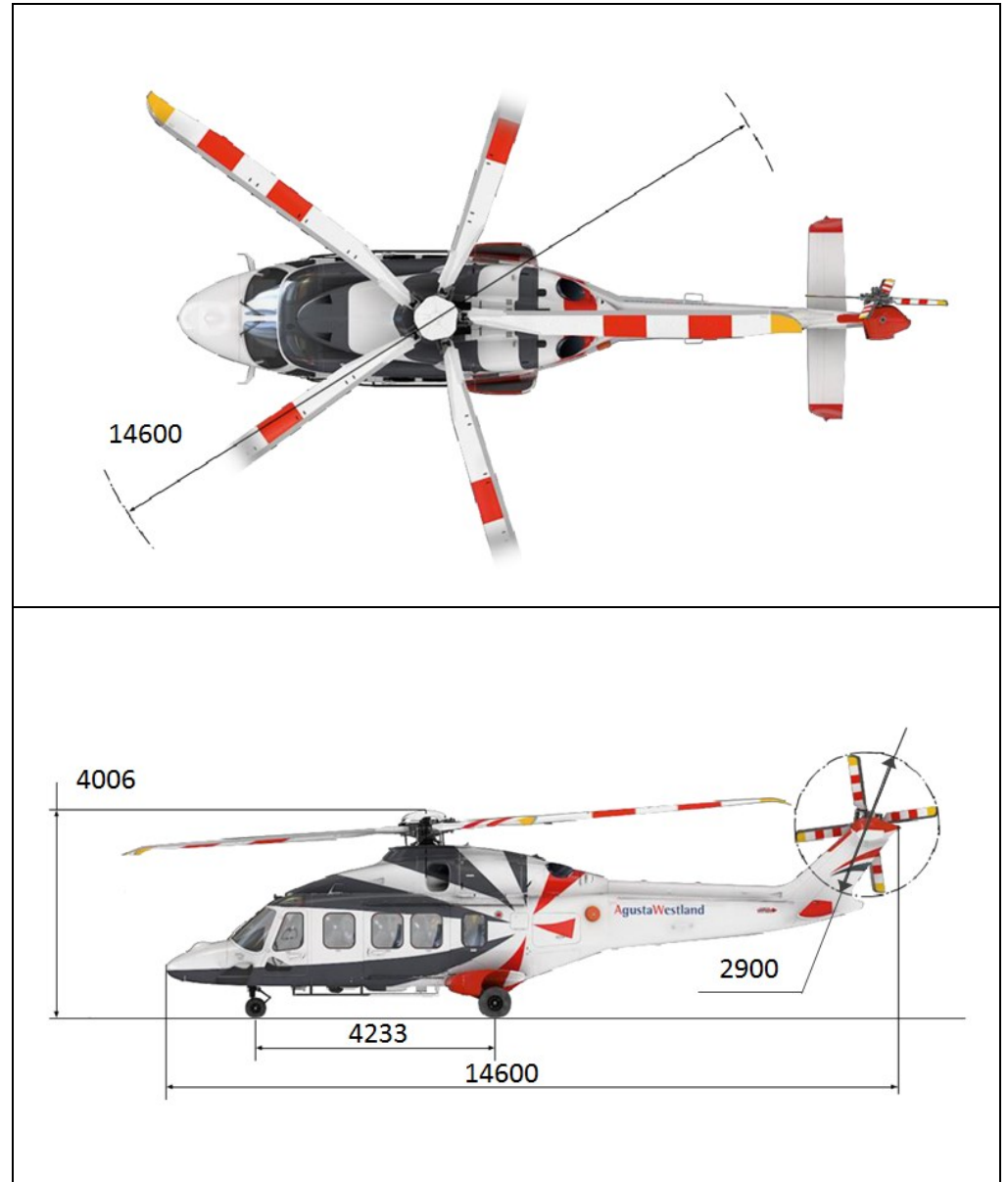
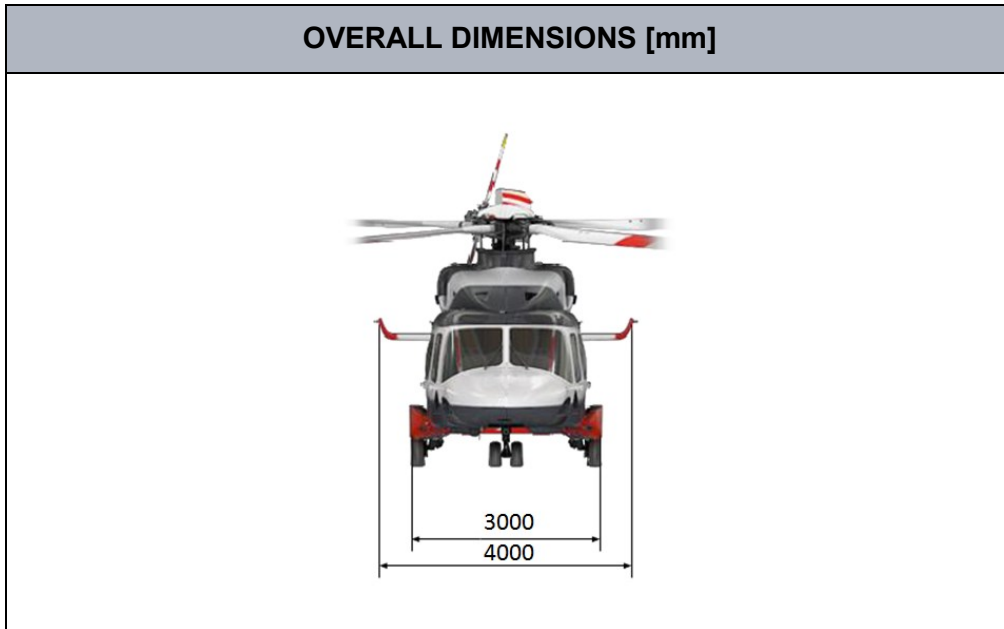


Figure 1 – Overall Dimensions [mm]

POWERPLANTS	#
GE CT7-2E1 or Safran Aneto-1K	2
APU Microturbo eAPU60H (between the engines)	1

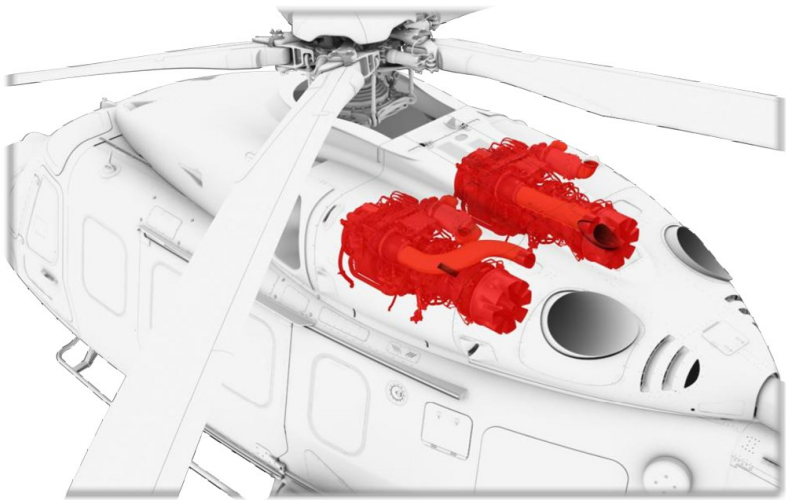


Figure 2 – Engines


FUEL SYSTEM

Maximum tank capacity: 1344 l

Figure 3 – Fuel Tank Location

OIL	Capacity [l]
Engine	6.4 (Safran) 6.9 (GE)
APU	2.8
MGB	27
TGB	1.22
IGB	1.87
Hydraulic system – max nominal pressure 207 bar	

**AUXILIARY FUEL TANK INSTALLATION
(KIT – STANDARD CONFIGURATION)**



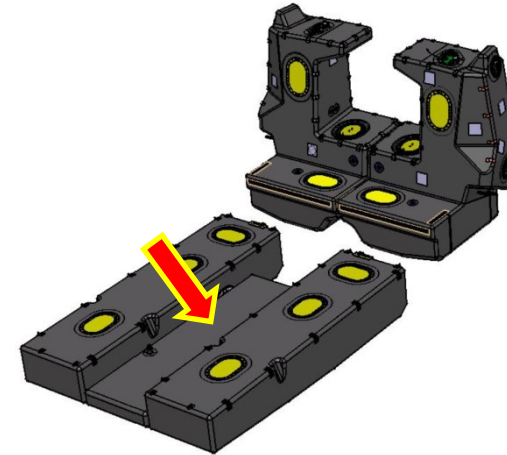
Auxiliary Central Tank (capacity 510 l)



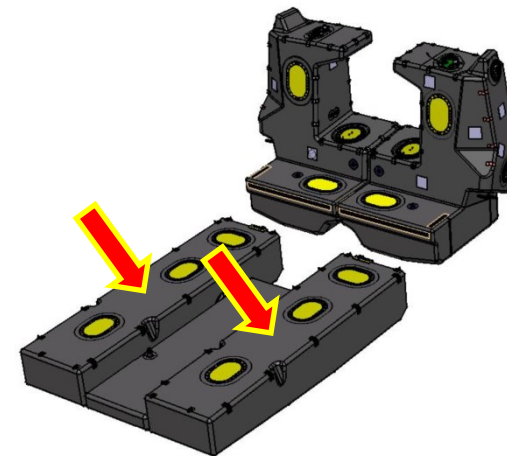
Two Sub Floor Tanks (RH and LH – total capacity 270 l)

Figure 4 – Auxiliary Fuel Tank Location – Standard Configuration

**AUXILIARY FUEL TANK INSTALLATION
(KIT – UNDERBELLY CONFIGURATION)**



Sub Floor Central Tank (capacity 216 l)



Sub Floor RH and LH Tanks (total capacity 1062 l)

Figure 5 – Auxiliary Fuel Tank Location – Underbelly Configuration

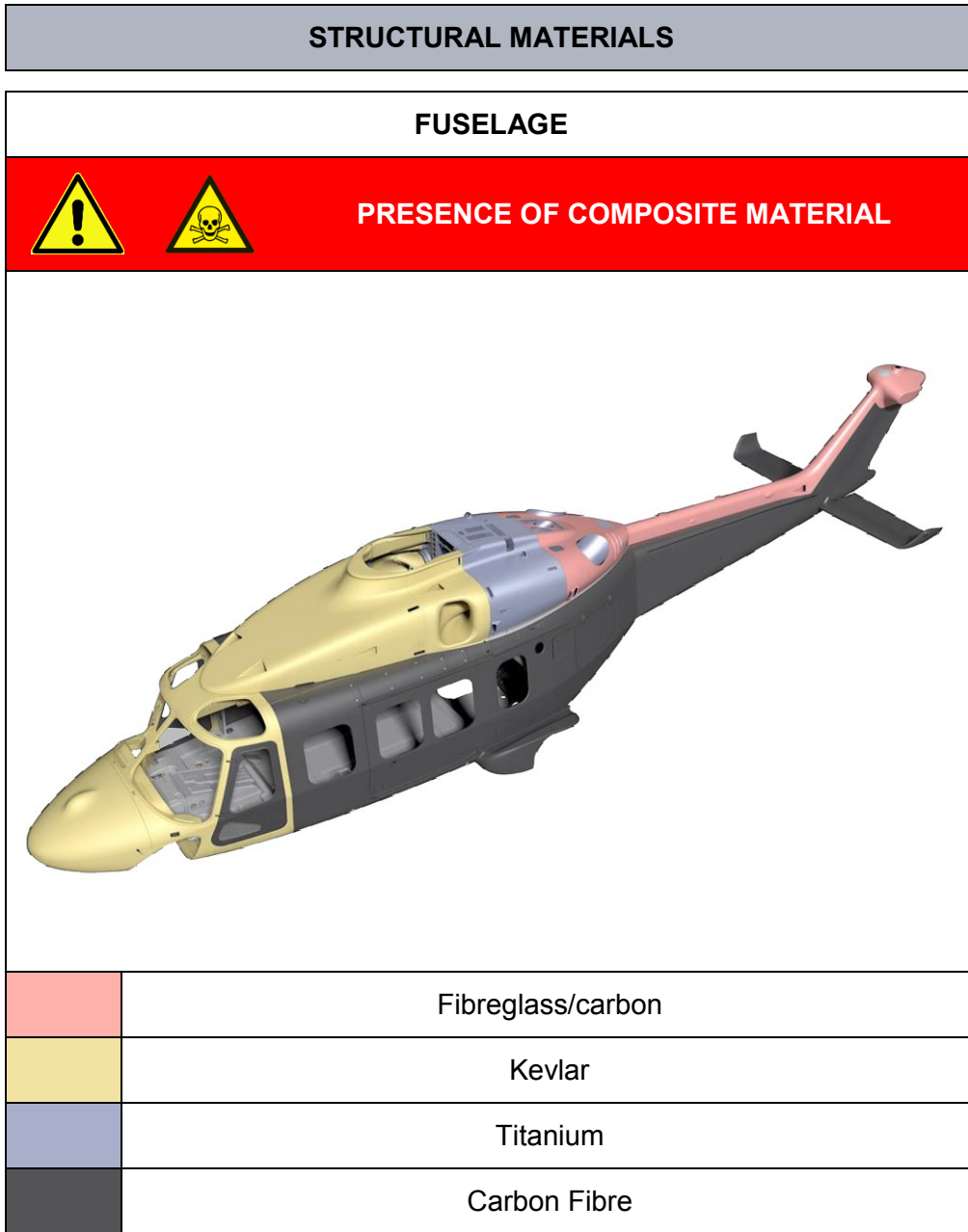


Figure 6 – Structural Materials – Fuselage

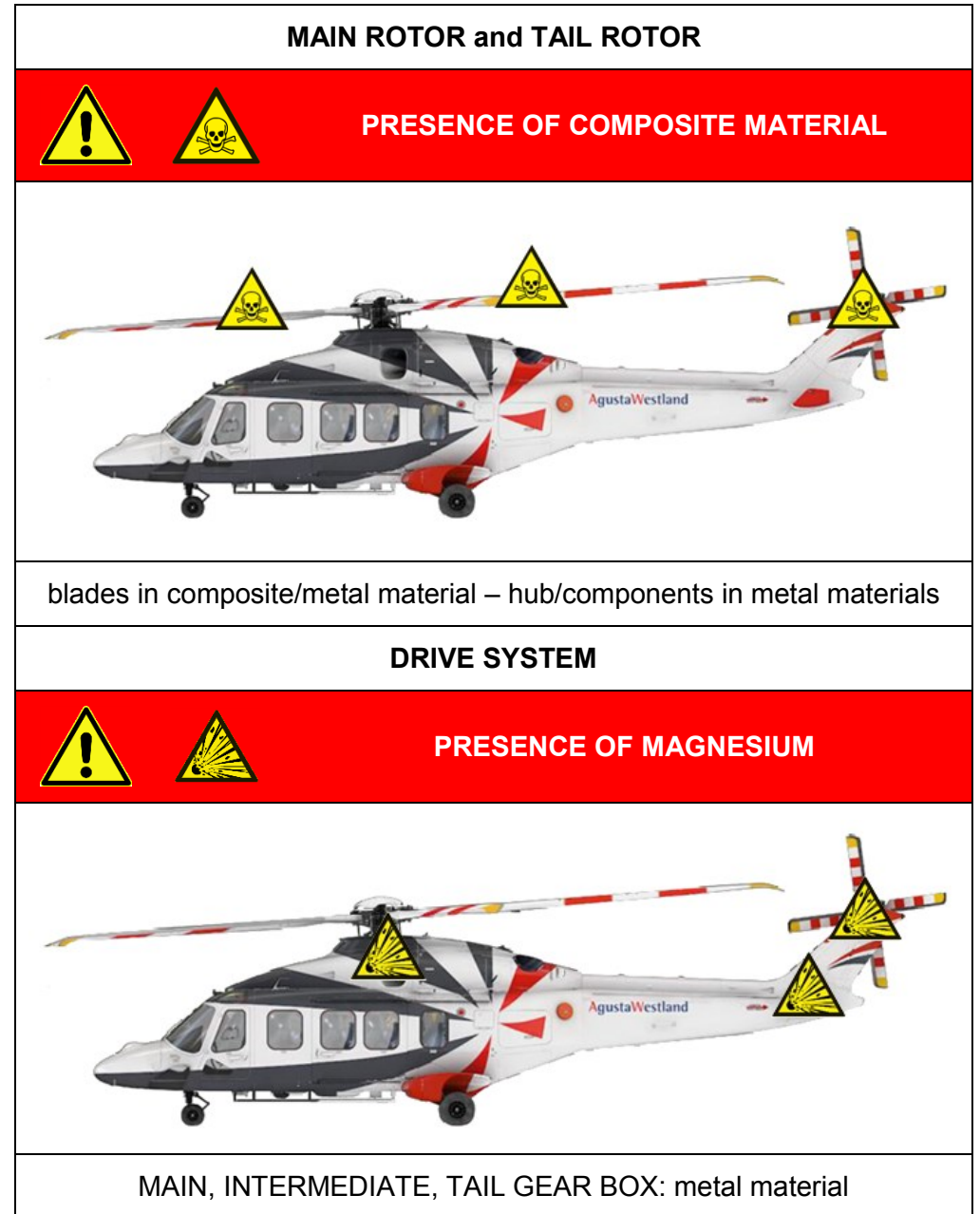


Figure 7 – Structural Materials

HAZARDS

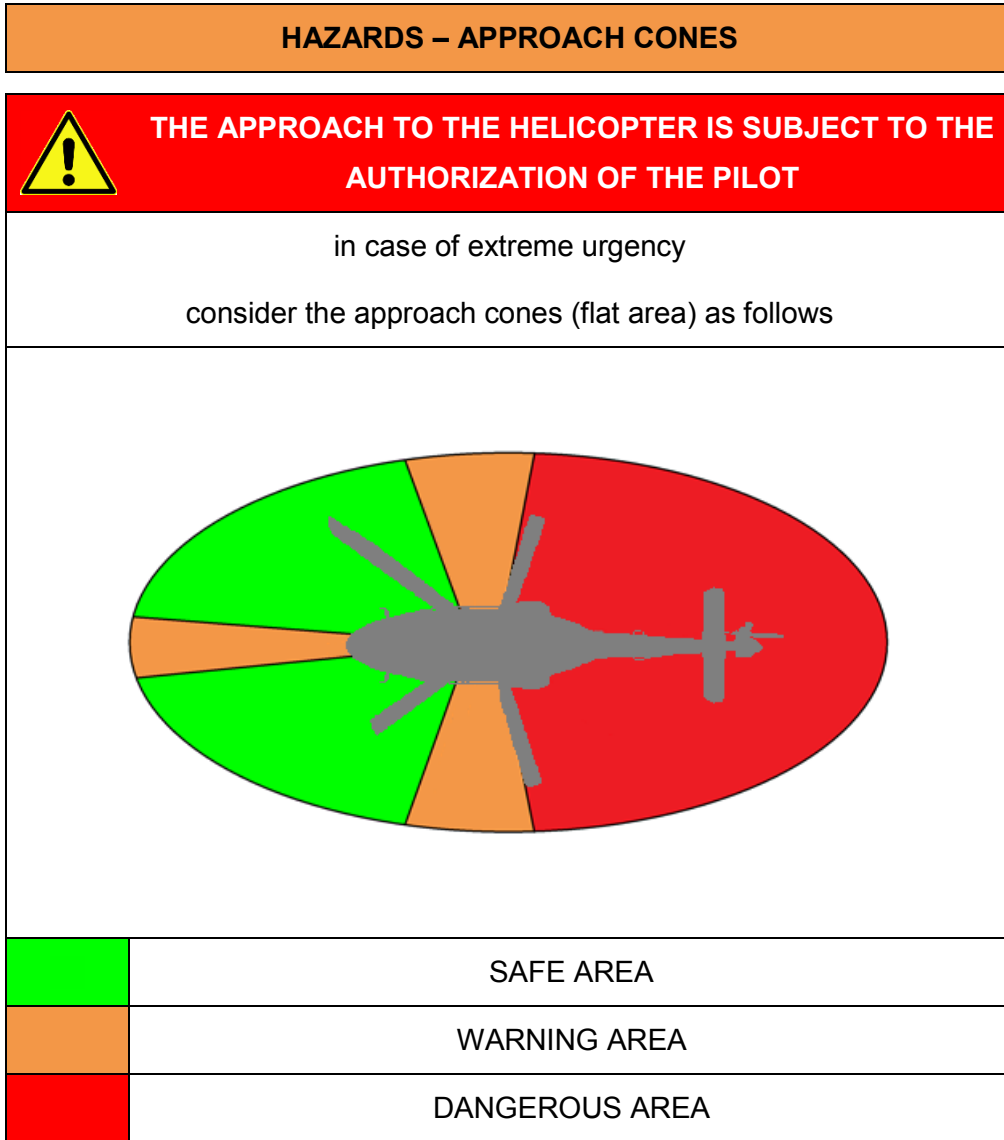


Figure 8 – Hazards – Approach Cones

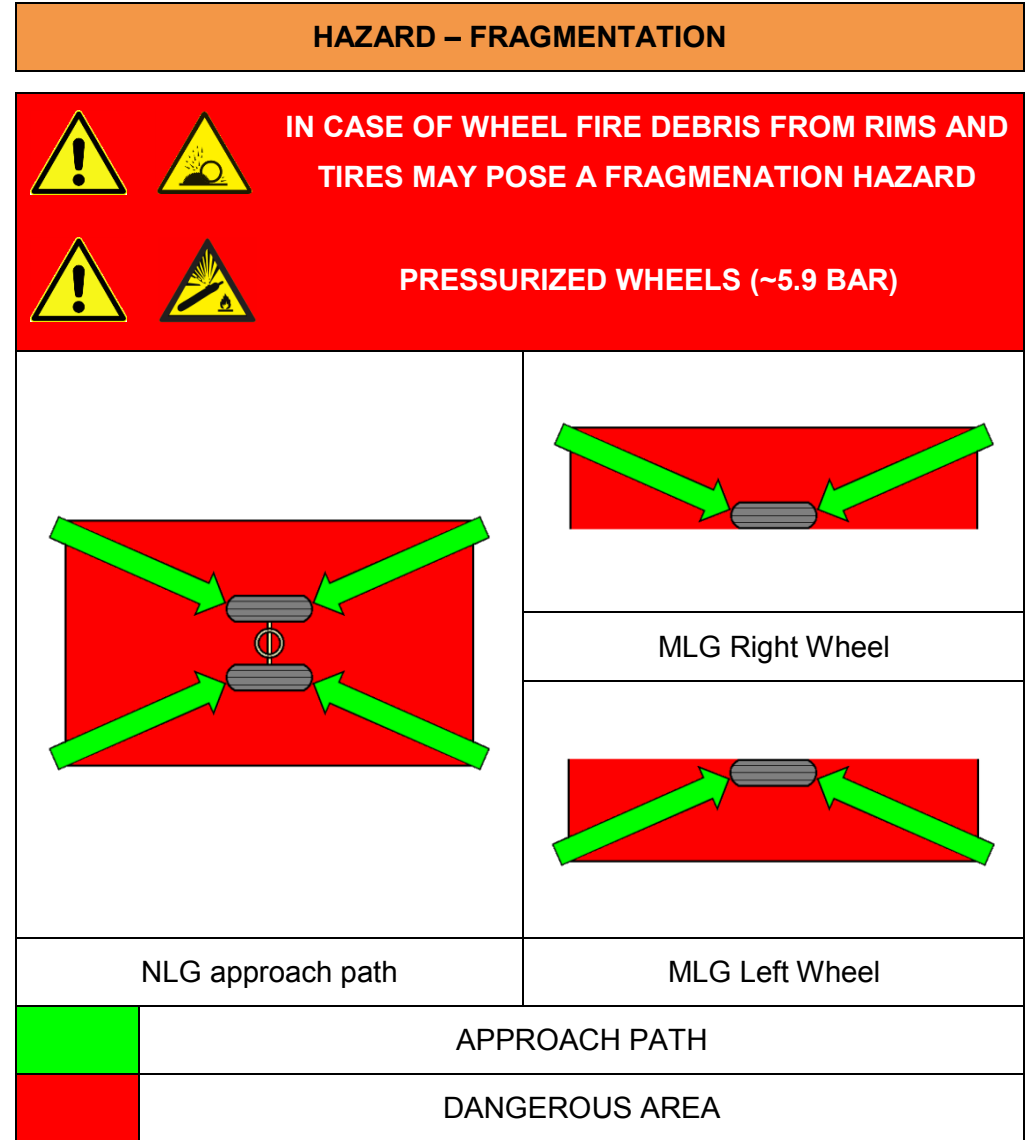


Figure 9 – Hazards – Fragmentation

HAZARDS – PRESSURIZED RECIPIENTS



**CHECK THE INTEGRITY OF THE AREAS
ADJACENT TO THE PRESSURIZED RECIPIENTS
AND APPROACH AS APPROPRIATE**

SYSTEM (number of bottles)	REF IN FIGURE	Pressure [bar] @21 C
Floating (2)	①	>344
Liferaft (2)	②	>270
Engine Fire Extinguisher (2)	③	>24 (43 aneto)
APU Fire Extinguisher (1)	④	>24
Wheels (3)	-	~5.9
Cabin Fire Extinguisher (1 up to 3)	Inside cockpit (next to pilot's seat) and cabin, depending on configurations	9
Oxygen Bottles (1 up to 3)		200

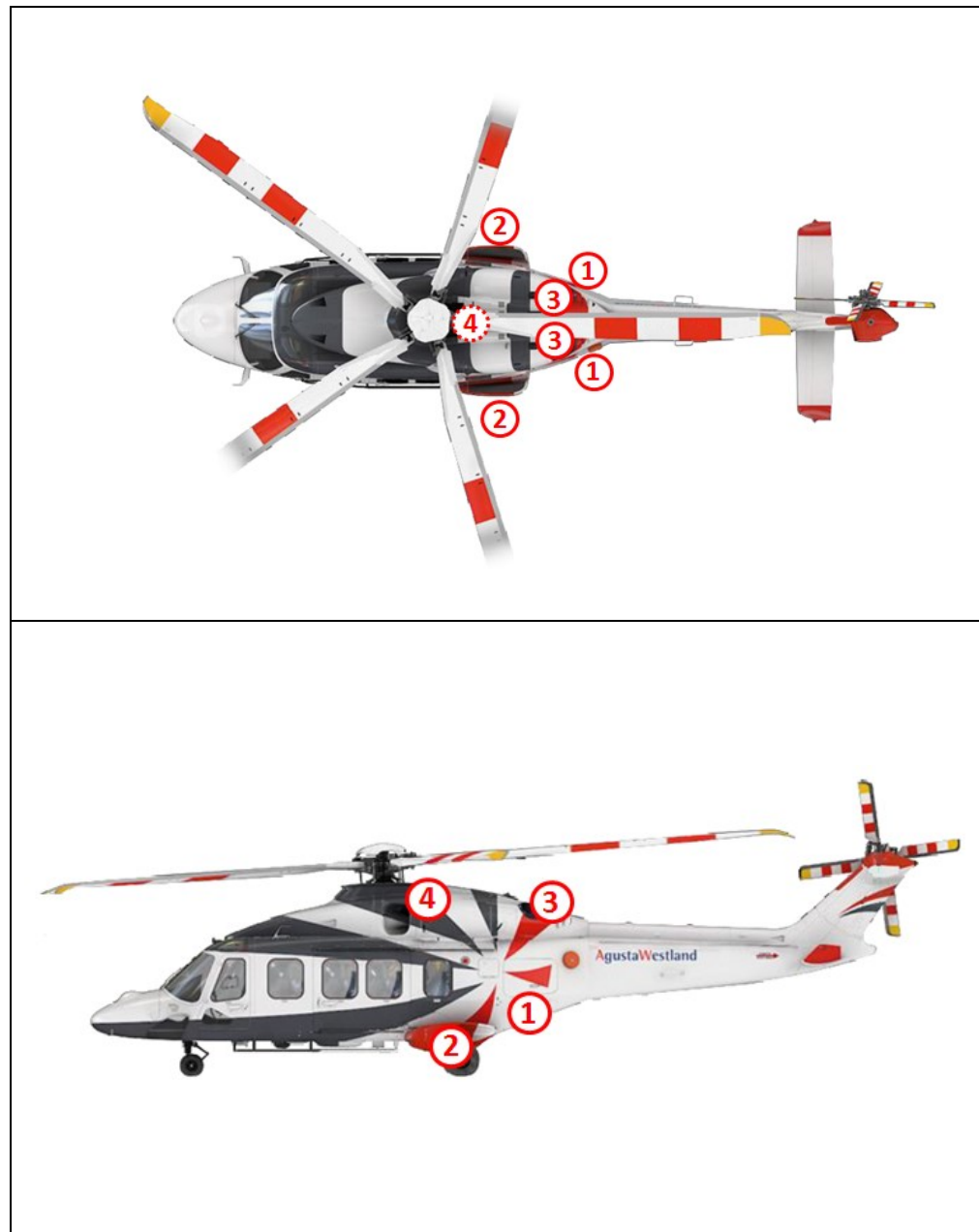


Figure 10 – Hazards – Pressure Recipients

HAZARDS – EXPLOSIVE CHARGES

**PRESENCE OF EXPLOSIVE CHARGES
APPROACH AS APPROPRIATE**

ACTIVATION (number of charges)	REF IN FIGURE	
Rescue Hoist (1)	①	right side
Cargo Hook (1)	②	bottom side
Engine Fire Extinguisher (2)	③	-
APU Fire Extinguisher (1)	③	In between

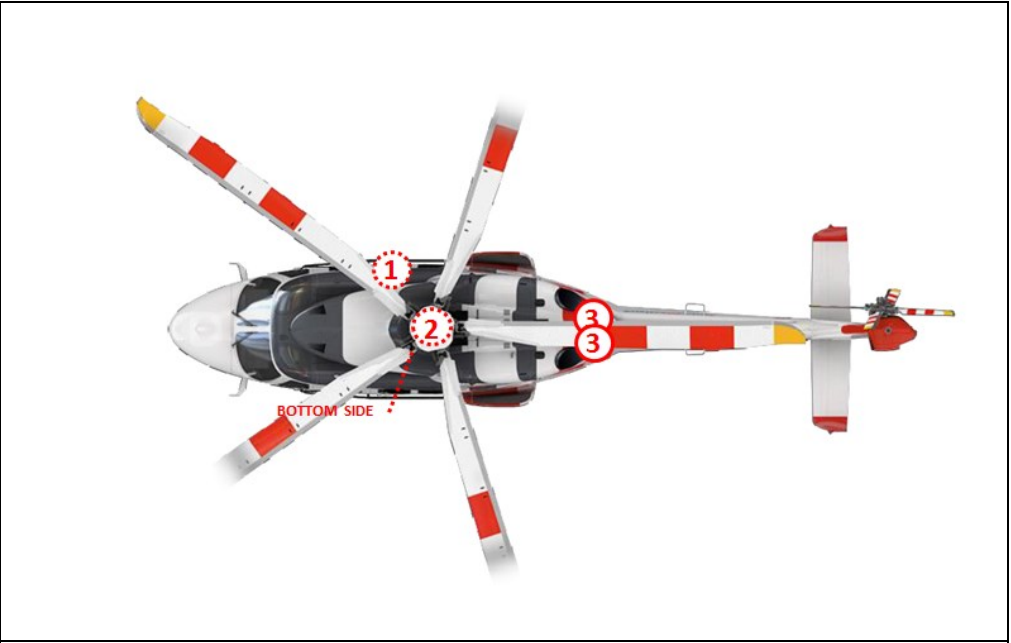


Figure 11 – Hazards – Explosive Charges

HAZARD – BATTERIES

 **BATTERIES MAY EXPLODE WITH FIRE**

 **POSSIBLE RELEASE OF TOXIC GASES**

BATTERY	REF IN FIGURE	
Main (1)	①	Nose Avionics Bay
Emergency Locator Transmitter, ELT (1) / ADELT (1)	②	Tail / Rear LH side of the fuselage
ADI STBY Emergency (1)	③	RH side of Nose Avionics Bay
Emergency Lights System Battery Pack (1)	④	Nose Avionics Bay
Helicopter Emergency Egress Lighting System Battery packs (6)	⑤	Inside Doors under window, under the two small windows of LH side of HC – depending on configuration
Flight Data Recorder (1)	⑥	Rear Avionic Bay
Life Raft ELT (2), Sea Light (2), Torch (4)	⑦	Sponsons

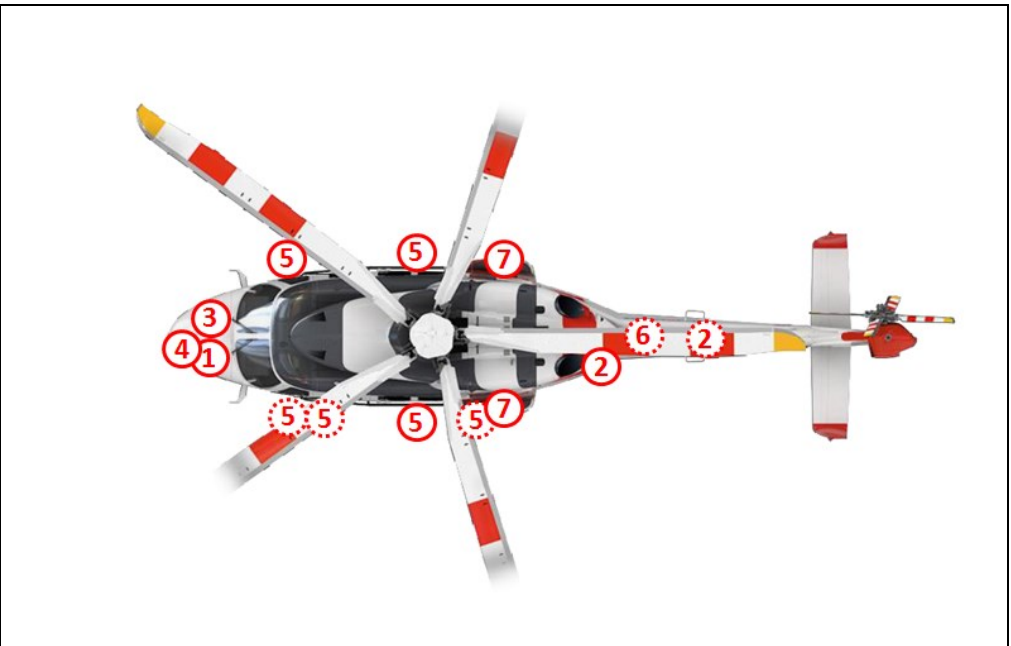


Figure 12 – Hazards – Batteries Location

HAZARDS – HOT SURFACES

⚠️ 🔥 PRESENCE OF HOT SURFACES

SURFACE	REF IN FIGURE
Pitots (2, see Figure 16)	①
Engine exhausts (2)	②
APU exhaust (1)	③
Air intake (2)	④
Latches, handles, metallic components (in case of fire)	access doors/panels

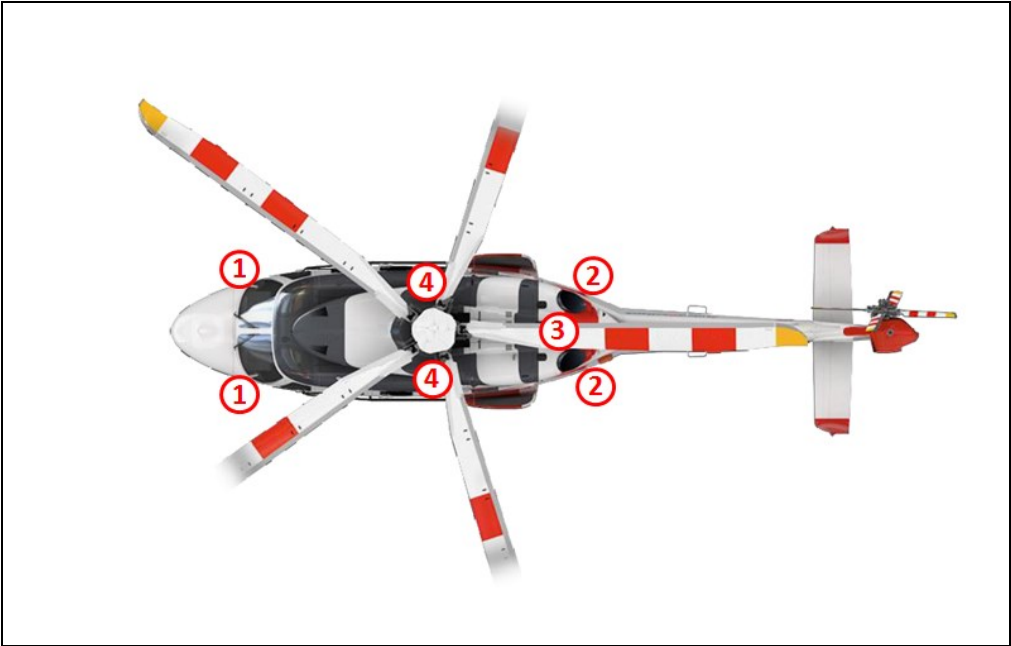


Figure 13 – Hazards – Hot Surfaces

HAZARD – FUEL AND LIQUIDS IN HYDRAULIC SYSTEM



PRESENCE OF FLAMMABLE LIQUIDS



MAX NOMINAL PRESSURE 207 BAR IN HYDRAULIC SYSTEM

FUEL TANK



max tank capacity: 1344 l (see Figure 3)

AUXILIARY FUEL TANK - KIT STANDARD CONFIGURATION



Auxiliary Central Tank (capacity 510 l, see Figure 4)

Sub Floor Tanks (total capacity 270 l, see Figure 4)

AUXILIARY FUEL TANK - KIT UNDERBELLY CONFIGURATION



Sub Floor Central Tank (capacity 216 l, see Figure 5)

Sub Floor Tanks (total capacity 1062 l, see Figure 5)

Figure 14 – Hazards – Fuel Location

HAZARDS – APU



HOT SURFACES



POSSIBLE RELEASE OF TOXIC GASES



Figure 15 – Hazards – APU

HAZARDS – PITOTS



PITOTS ARE HEATED DURING COLD OPERATIONS



THE SHARP SHAPE CAN CAUSE INJURY



One Pitot for each side

Figure 16 – Hazards – Pitots

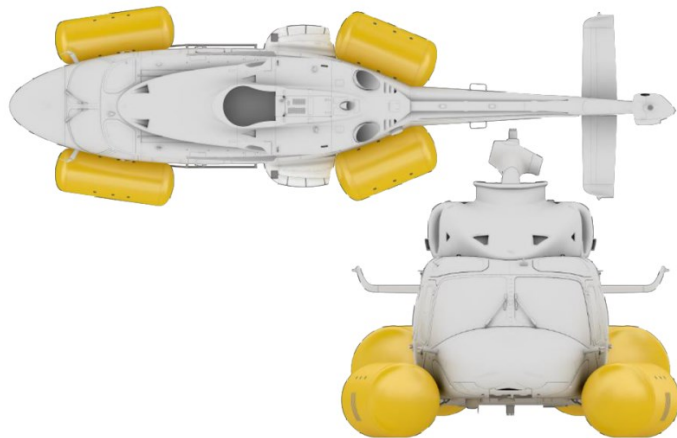
HAZARDS - EMERGENCY FLOATATION SYSTEM (EFS)



THE FRONT AND BACK BALOONS MAY INFLATE SUDDENLY



THE INFLATION BOTTLES INSTALLED RIGHT AFTER THE SPONSONS HAVE A PRESSURE ABOVE 344 BAR



Two Baloons for each side. See Figure 43 for the de-activation procedure

Figure 17 – Hazards – Emergency Floatation System

HAZARDS – EMERGENCY LIFE RAFTS



LIFE RAFTS MAY INFLATE SUDDENLY



PRESSURE OF THE INFLATION BOTTLES INSTALLED INSIDE THE SPONSON IS ABOVE 270 BAR



One Life Raft for each side

Figure 18 – Hazards – Emergency Life Rafts

HAZARDS - EMERGENCY LOCATION TRANSMITTER (ELT)



THE ELT BEACON MAY DEPLOY SUDDENLY



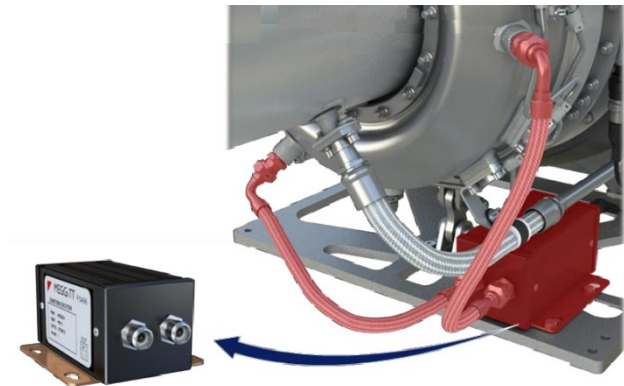
One ELT Beacon for the Helicopter

Figure 19 – Hazards – Emergency Location Transmitter

HAZARDS – IGNITER BOXES



**VOLTAGE HIGH AMPERAGE OUTPUT
BEFORE SERVICING DISCONNECT INPUT CURRENT
BEFORE OPERATING CONNECT OUTPUT LEADS AND
IGNITER PLUG**



One Igniter Box for each engine

Figure 20 – Hazards – Igniter Boxes

SAFETY INFORMATION: GROUND STAFF (OUTSIDE)

THE HELICOPTER)



IT IS RECOMMENDED TO APPROACH PERSONNEL NOT ADEQUATELY TRAINED ON GENERAL RISKS OR HELICOPTER EMERGENCY MEASURES



PERSONNEL IS REQUIRED TO WEAR THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT



USE CAUTION WHEN APPROACHING THE HELICOPTER, CHECKING THE STRUCTURE INTEGRITY



THE APPROACH OF THE HELICOPTER IS NOT ALLOWED IN CASE OF ANY POSSIBLE RECOVERY OR IGNITION OF FLAMES. VERIFY THE ABSENCE OF SPILLS OF FLUIDS AND FUEL



IN THE EVENT OF SMOKE, FLAMES, SPARKS FIRE FIGHTING TRAINED PERSONNEL ONLY IS ALLOWED TO OPERATE



IT MIGHT BE NECESSARY TO WEAR THE SELF-CONTAINED BREATHING APPARATUS




POSSIBLE PRESENCE OF STATIC ELECTRICITY ON THE HELICOPTER



ELECTRICALLY GROUND THE HELICOPTER IF POSSIBLE

ACCESS INTO THE HELICOPTER

 **USE NORMAL ACCESS**
IF THE NORMAL ACCESS CANNOT BE USED, ACT ON THE EMERGENCY ACCESS DOORS



NORMAL ACCESS DOORS

Pilot and Copilot Doors (LH/RH) - Passenger Doors (RH/LH)
EMERGENCY ACCESS DOORS

Pilot and Copilot Emergency Windows (LH/RH) Passenger Emergency Windows (4 RH/ 4 LH) (*) (*) STC configurations may differ from that reported in this document

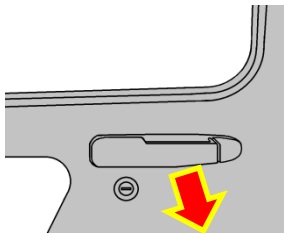
Figure 21 – Normal and Emergency Access Doors Scheme

NORMAL ACCESS - OPEN THE PILOT/CO-PILOT DOOR

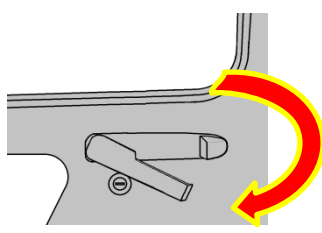
TYPE: HINGED DOOR LH/RH



FROM OUTSIDE

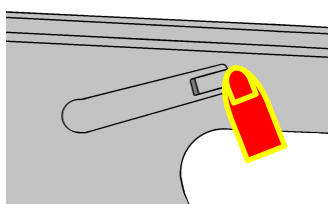


1) Pull the handle

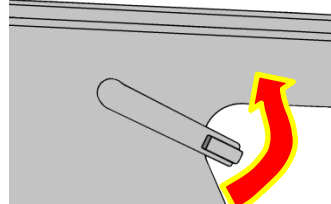


2) Turn the handle downwards

FROM INSIDE



1) Push the button on the handle



2) Rotate the handle upwards

Figure 22 – Pilot/Co-Pilot Door - Opening Procedure

EMERGENCY ACCESS - OPEN THE PILOT/CO-PILOT EMERGENCY EXITS

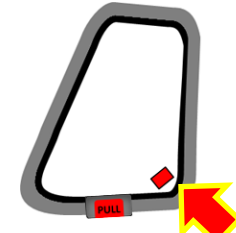
TYPE: HINGED DOOR LH/RH



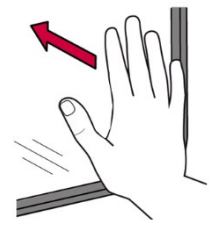
FROM OUTSIDE (left side for clarity)



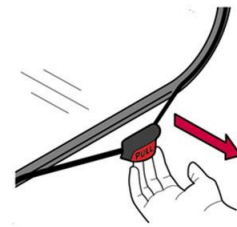
1) Pull tab to remove cord



2) Push in window



FROM INSIDE (left side for clarity)



1) Pull tab to remove cord



2) Push out window

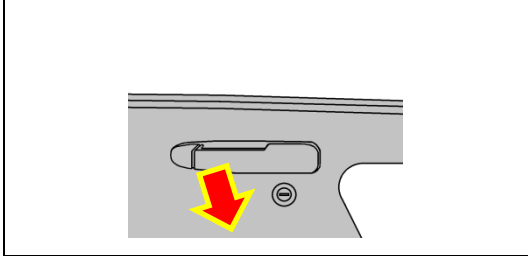
Figure 23 – Pilot/Co-Pilot Emergency Exits - Opening Procedure

NORMAL ACCESS - OPEN THE PASSENGER DOOR

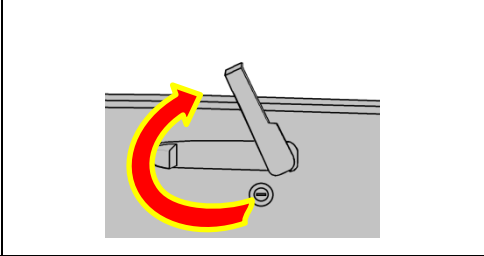
TYPE: SLIDING DOORS RH/LH



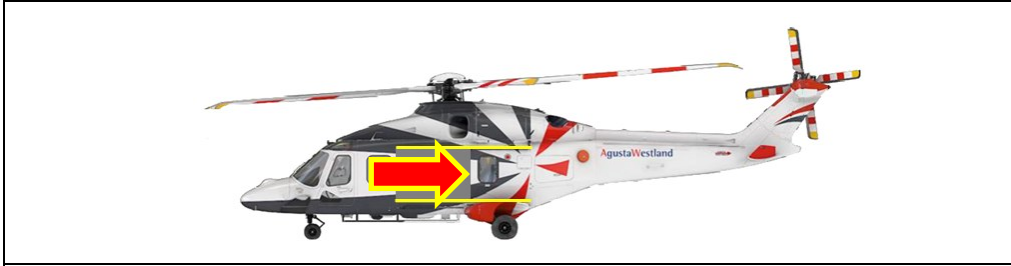
FROM OUTSIDE



1) Pull the handle

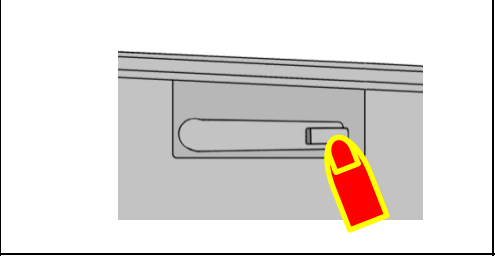


2) Turn the handle 90° upwards

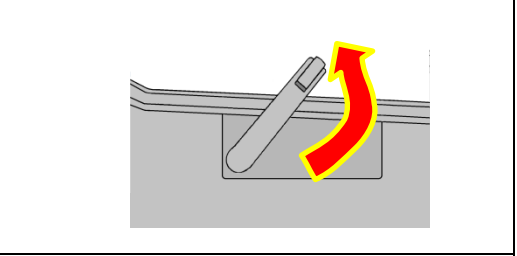


3) Slide backwards

FROM INSIDE



1) Push the button on the handle





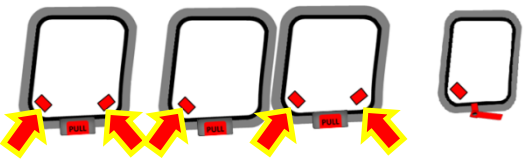

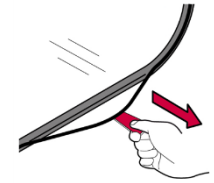
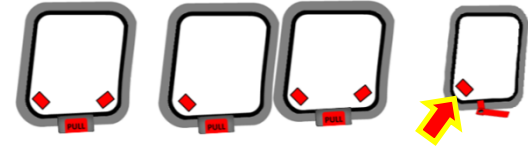

2) Rotate the handle upwards



3) Slide backwards

Figure 24 – Sliding Passenger Door - Opening Procedure

EMERGENCY ACCESS - OPEN THE PASSENGER EMERGENCY EXITS

TYPE: SLIDING DOORS RH/LH		
		
FROM OUTSIDE (left side for clarity)		
		
1) Pull tab to remove cord	2) Push in window	
		
3) Pull strap to remove cord	4) Push in window	

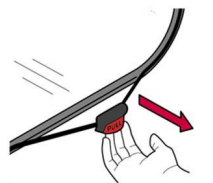
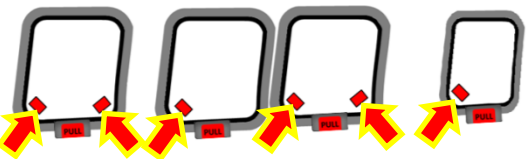
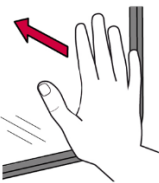
FROM INSIDE (left side for clarity)		
		
1) Pull tab to remove cord	2) Push in window	

Figure 25 – Sliding Passenger Emergency Exits - Opening Procedure

NORMAL ACCESS - OPEN THE PASSENGER DOOR

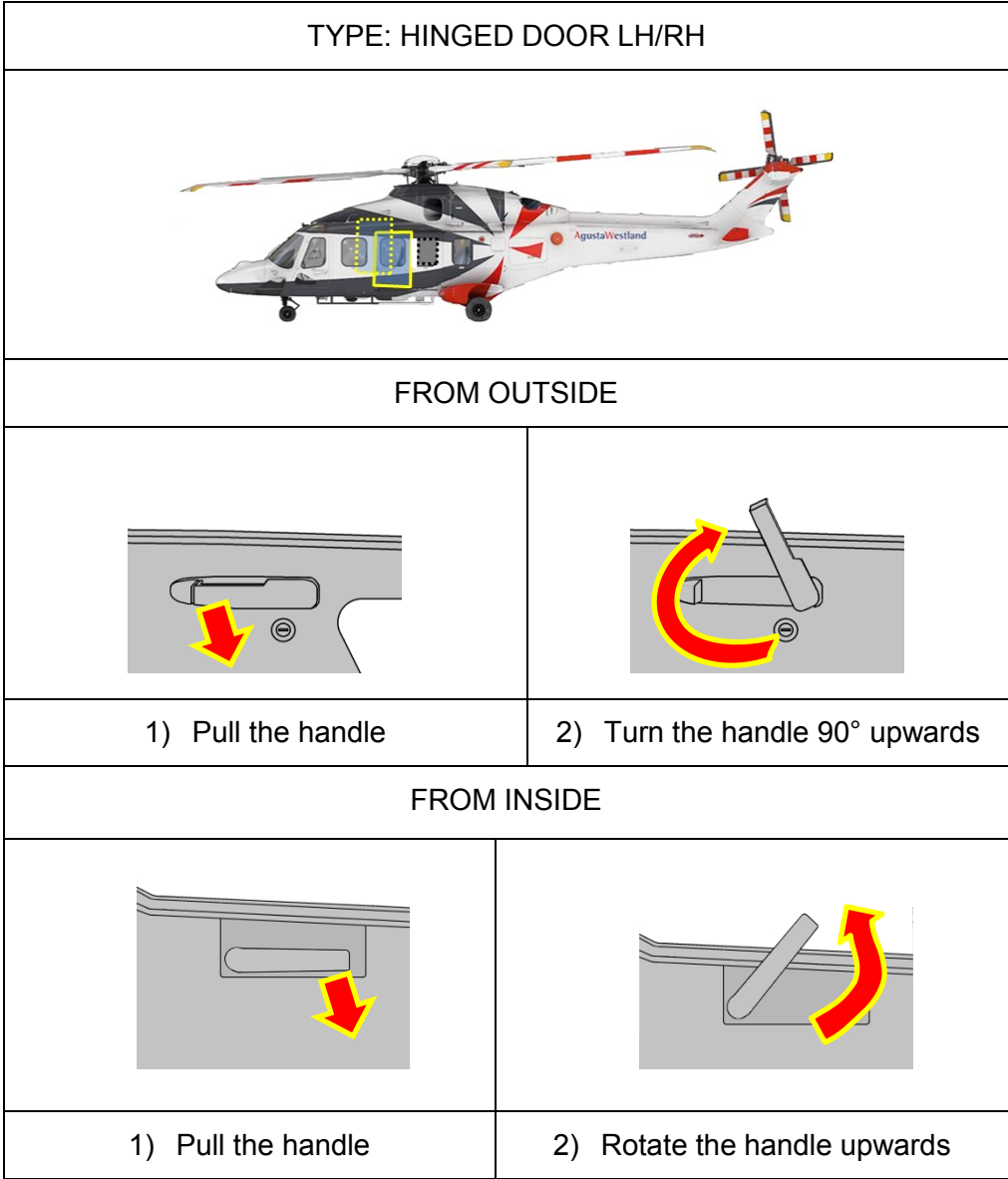


Figure 26 – Hinged Passenger Door - Opening Procedure

EMERGENCY ACCESS - OPEN THE PASSENGER EMERGENCY EXITS

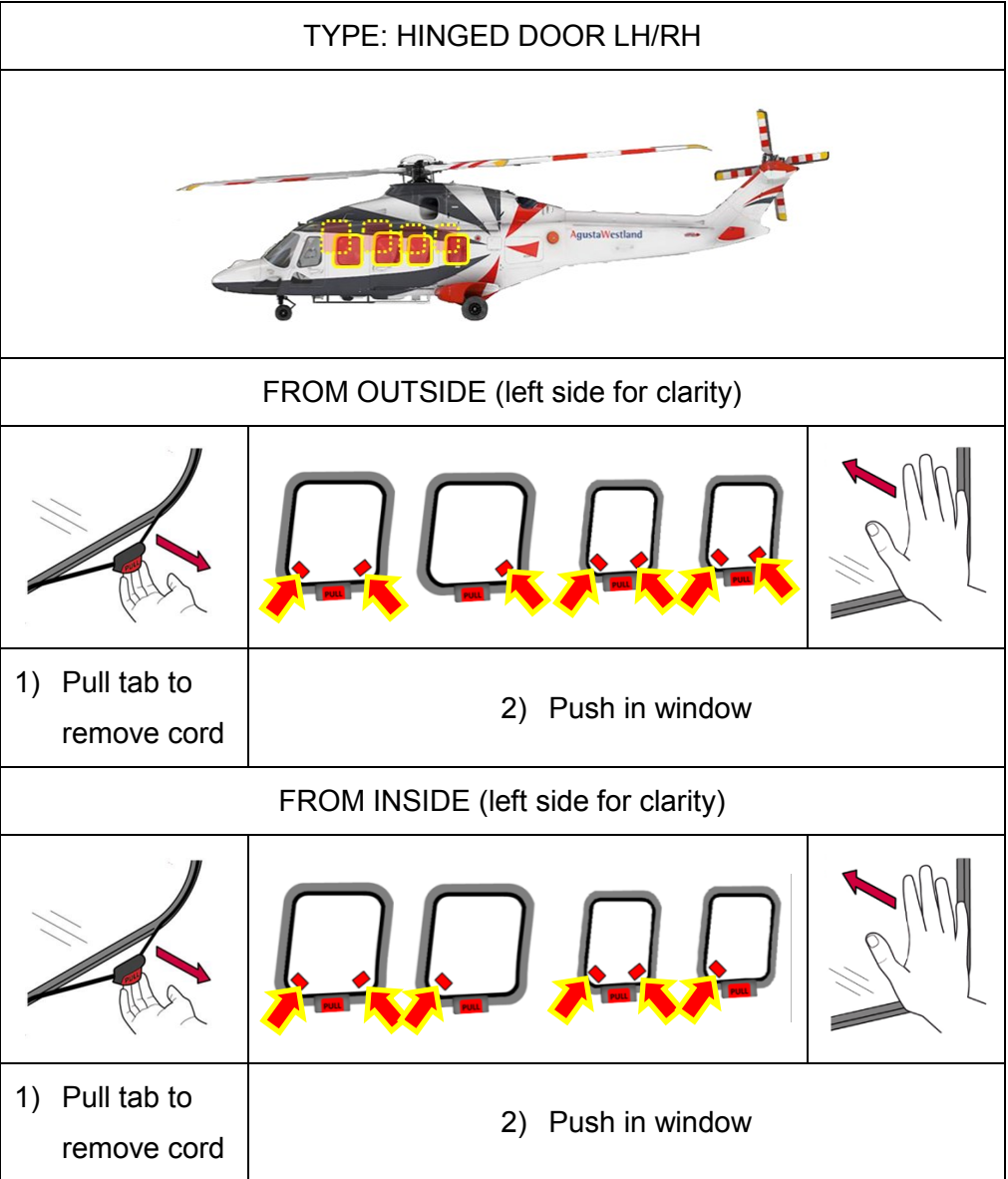
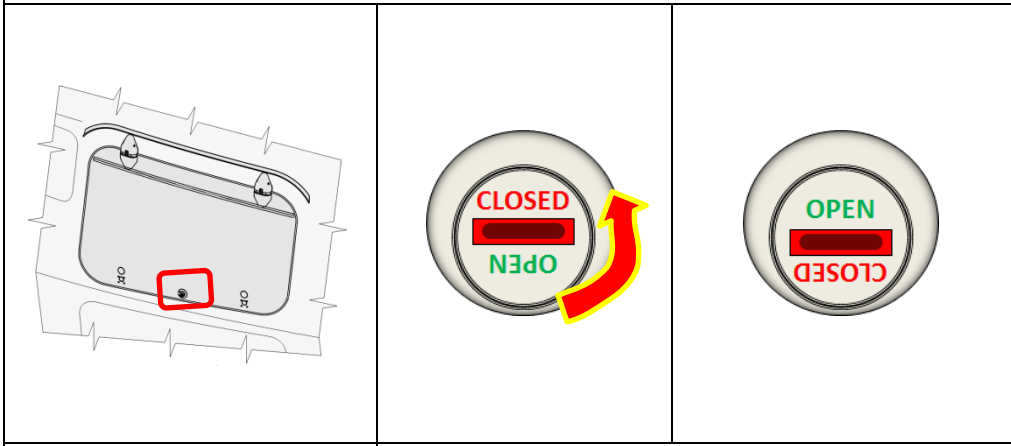


Figure 27 – Hinged Passenger Emergency Exits - Opening Procedure

OPEN THE BAGGAGE DOOR

TYPE: HINGED DOOR LH/RH



Unlock the door Operate the lock with the applicable key

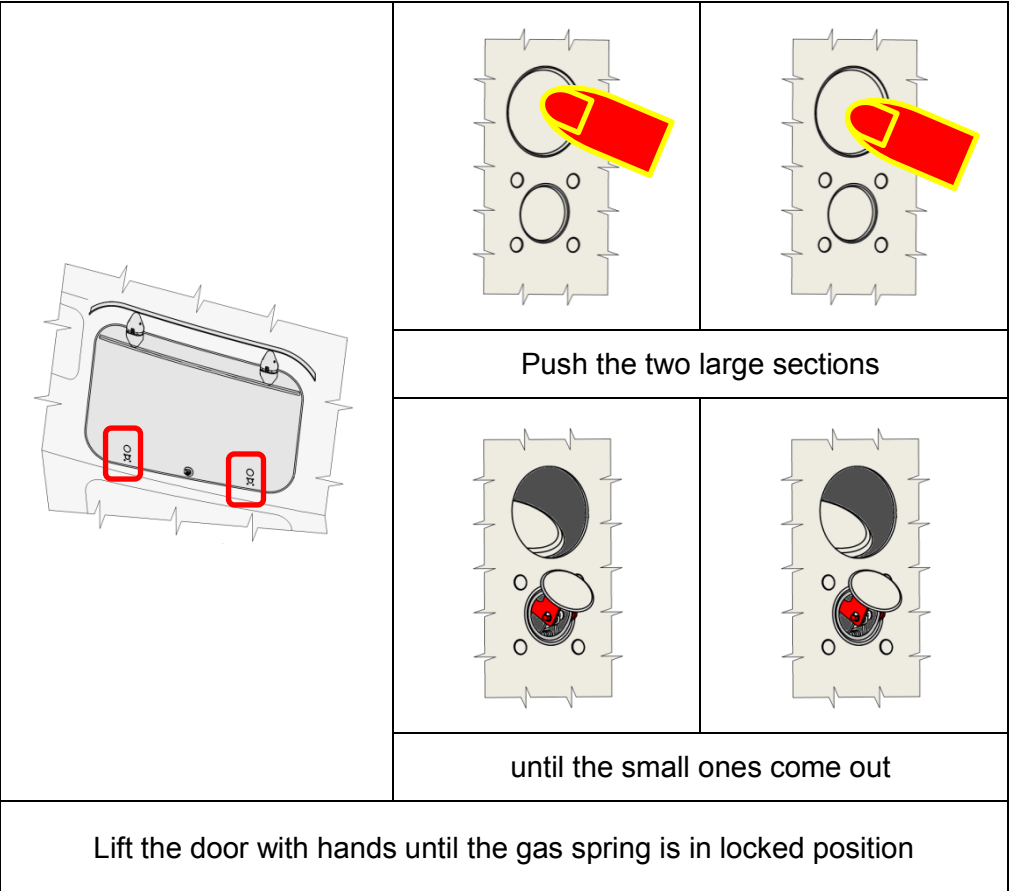
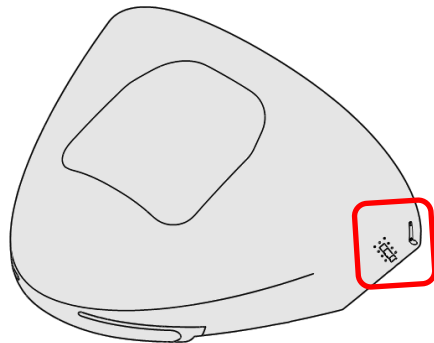


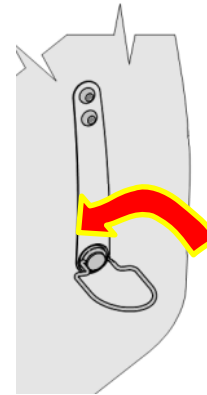
Figure 28 – Baggage Door - Opening Procedure

OPEN THE NOSE RADOME DOOR

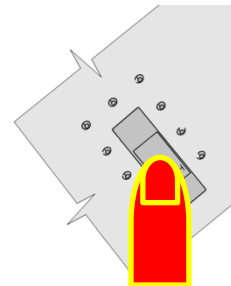
TYPE: HINGED DOOR



Turnlock might be not installed



Turn counterclockwise the thurnlock



Push the large section of each latch with a finger until you disengage the hook of the latch. Pull the hook towards the large section.

Open the door

Figure 29 – Nose Radome Door - Opening Procedure

ENGINE AND APU ACCESS



**IGNITER BOXES - VOLTAGE HIGH AMPERAGE OUTPUT
BEFORE SERVICING DISCONNECT INPUT CURRENT
BEFORE OPERATING CONNECT OUTPUT LEADS AND
IGNITER PLUG**


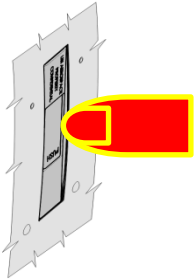
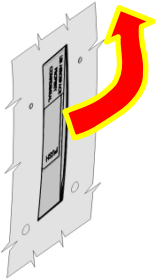
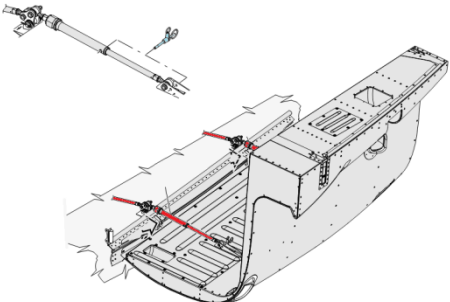
ENGINE COWLINGS OPENING PROCEDURE	
	
	
<p>Push the PUSH section</p>	<p>Pull the small section to open the door</p>
	<p>Make sure that the two actuators are fully extended. Remove the two quick-release pins from the two supports and install them on the two actuators.</p> <p><i>Make sure not to trip while using the platform</i></p>

Figure 30 – Engine Cowlings Opening Procedure


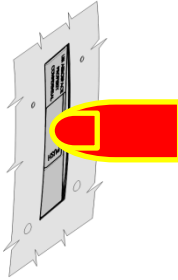
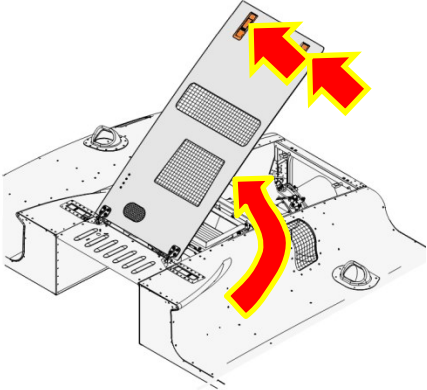
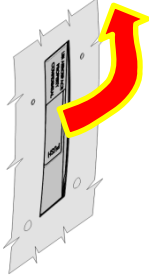

APU ACCESS DOOR OPENING PROCEDURE		
		
	<p>1) Push the left and right PUSH sections</p>	
	<p>2) Pull the left and right small sections to open the door</p>	<p>3) Lift the door with hands until the locking rod is in the locked position.</p>

Figure 31 – APU Cowling Opening Procedure

FIREFIGHTING RECOMMENDATIONS

FIRE IN THE BAGGAGE COMPARTMENT	
	IF SMOKE/FIRE IS CONFIRMED USE THE EXTINGUISHER OTHERWISE OPEN THE BAGGAGE DOOR DIRECTLY
See Figure 28 for the baggage door opening procedure	

RECOMMENDED FIRE FIGHTING AGENTS	
engine fires	HALON or dry chemicals
exhaust nozzle fire	HALON or dry chemicals
APU fire	HALON or dry chemicals
fuel fire	dry chemical for leaking fuel and foam on ground spill area
wheel and brake fires	water fog or dry powder
	approach landing gear as per Figure 9 strand upwind of fire to avoid hydraulic fluid fumes
electrical fires	HALON or dry chemicals
cockpit and cabin area fires	HALON 1211 or dry powder
baggage compartment fire	HALON
aft equipment compartment fire	HALON

Figure 32 – Recommended Fire Fighting Agents

SAFETY INFORMATION: GROUND STAFF (INSIDE THE HELICOPTER)

THE FOLLOWING PROCEDURES MUST BE CARRIED OUT



- 1) IN CASE OF EMERGENCY ON GROUND
- 2) ONLY IF PILOTS ARE INCAPACITATED
- 3) STRICTLY IN ORDER OF PRESENTATION

USE CAUTION WHEN MOVING INSIDE THE HELICOPTER, CHECKING THE STRUCTURE INTEGRITY. SIGNS COULD INCLUDE BUT ARE NOT LIMITED TO, DEFORMITY OF STRUCTURE, FLAME IMPINGEMENT OR UNEVEN SURFACES



IN CASE OF CHOCKS AVAILABILITY ACCESS THEIR NEED AND LOCK THE WHEELS



WHEN ENTERING THE COCKPIT AREA, BE CAREFUL NOT TO MOVE THE CYCLIC AND COLLECTIVE CONTROLS BEFORE SHUTTING DOWN THE ENGINES

PERSONNEL RESCUE




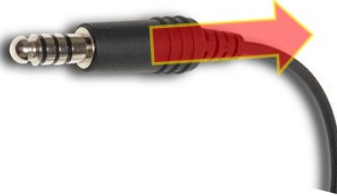



FLIGHT HELMET DISCONNECTION	
 THE DIRECTION OF THE PLUG MIGHT BE DIFFERENT FROM THAT OF THE PILOT/CO-PILOT'S EGRESS	
	
Pilot/Copilot exit directions	
	
Disconnect the Flight Helmet unplugging the jack from the Inter-Communication System along its direction	

Figure 33 – Helmet Disconnection

SAFETY BELTS	
	
Pilot/copilot seat belt	Passengers' seat belt
	
Rotate the gear of the buckle in ANY direction to unfasten the belt	

Figure 34 – Opening of the Safety Belt

EMERGENCY APU AND ENGINE SHUTDOWN

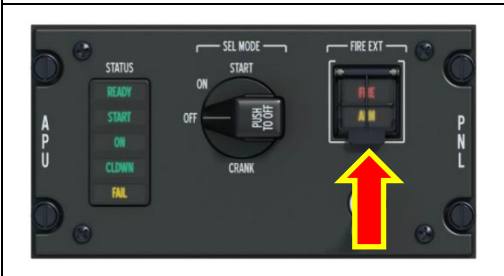
	<p>PERFORM THIS PROCEDURE TO FAST SHUTDOWN THE ENGINE AND ALLOW QUICKLY THE OTHER RESCUE OPERATIONS</p>
	<p>IN CASE THERE IS NO FIRE OR NO MAJOR EMERGENCY SKIP STEPS FROM 1 TO 4 TO PRESERVE THE INTEGRITY OF THE SYSTEMS AND PERFORM:</p> <ul style="list-style-type: none"> - STEPS FROM 5 TO 7 - NEXT OPERATIONS
	<p>IN CASE OF MAJOR EMERGENCY OR FIRE PERFORM:</p> <ul style="list-style-type: none"> - STEPS FROM 1 TO 4 - NEXT OPERATIONS

STEP 1 – APU FUEL SUPPLY INTERRUPTION – MAJOR EMERGENCY/FIRE

THE USE OF HEAVY GLOVES MAY MAKE THE PROCEDURE DIFFICULT



APU Control Panel is located in the Interseat Console



Raise the guard switch



Press the FIRE/ARM push button to shutdown the APU

Figure 35 – APU Shutdown – Major Emergency/Fire

STEP 2 – ENGINE FUEL SUPPLY INTERRUPTION – MAJOR EMERGENCY/FIRE

THE USE OF HEAVY GLOVES MAY MAKE THE PROCEDURE DIFFICULT



Engine Fire Detect/Exting. Control Panel is located in the Instrument Panel



Raise the guard switches of both the engines (see ENG 1 in figure)

Press the FIRE/ARM push button of **both** the engines to shut off the valve

Figure 36 – Engine Fuel Supply Interruption – Major Emergency/Fire

STEP 3 – APU FIRE EXTINGUISHING – MAJOR EMERGENCY/FIRE

PERFORM THIS STEP ONLY IN CASE OF APU FIRE



Make sure to have performed step 1



Move the switch to BTL to charge the Bottle

Figure 37 – APU Fire Extinguishing – Major Emergency/Fire

STEP 4 – ENGINE FIRE EXTINGUISHING – MAJOR EMERGENCY/FIRE



PERFORM THIS STEP ONLY IN CASE OF ENGINE FIRE



Make sure to have performed step 2



Move the switch to BTL1 to charge Bottle 1.

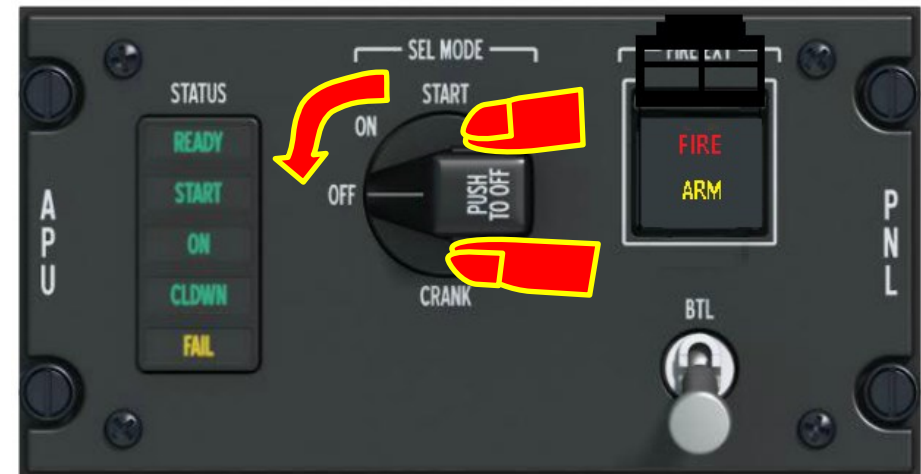
If necessary do the same with BTL2

Figure 38 – Engine Fire Extinguishing – Major Emergency/Fire

STEP 5 - APU SHUTDOWN – MINOR EMERGENCY



The Engine Control Panel is located in the Interseat Console



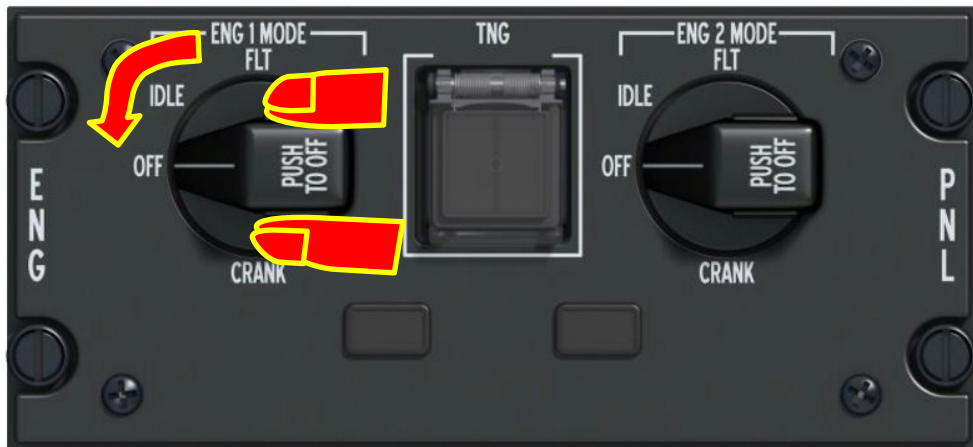
Push and rotate counterclockwise to switch off APU

Figure 39 – Normal APU Shutdown – Minor Emergency

STEP 6 - ENGINE SHUTDOWN – MINOR EMERGENCY



The Engine Control Panel is located in the Interseat Console



Push and rotate counterclockwise to switch off each engine

Figure 40 – Normal Engine Shutdown – Minor Emergency

STEP 7 – PUMP AND SHUT OFF VALVE CLOSURE – MINOR EMERGENCY



The Electronic Control Display Unit is located in the Interseat Console



Set the Pump 1 &2 to Off and the Shut Off Valve 1&2 to Close

Figure 41 – Normal Pump and Shut Off Valve 2 Closure – Minor Emergency

NEXT OPERATIONS

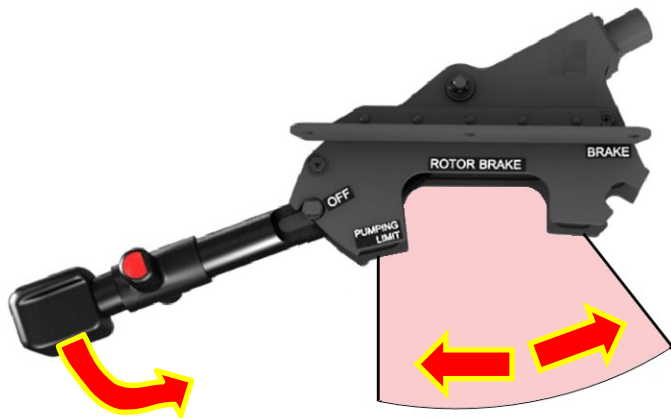
ROTOR BRAKE



**THE PROCEDURE DOESN'T WORK
WITH ENGINES STILL ON**



The Rotor Brake lever is on the Overhead Console



Move the lever from OFF to the BRAKE position and pump within the indicated range if necessary

Figure 42 – Rotor Brake

EMERGENCY FLOATATION SYSTEM (EFS)



DE-ACTIVATE THE SYSTEM



The Floatation Control Panel is located in the Interseat Console.



Set the master switch to OFF position

Figure 43 – Floatation System – De-activation

EMERGENCY LOCATOR TRANSMITTER (ELT)



DE-ACTIVATE THE SYSTEM AND INFORM THE AIR TRAFFIC CONTROL ABOUT THE AIRCRAFT EVENT AND LOCATION



The System Control Panel is on the Instrument Panel

Set the switch to ARM

Figure 44 – ELT System – De-activation

INTERRUPTION OF THE POWER SUPPLY FROM THE CONTROL PANEL



PERFORM THIS PROCEDURE ONLY WHEN THE ENGINES ARE SWITCHED OFF AND THE ROTORS ARE STOPPED



Electrical Power Generation and Distribution System, EPGDS, location



Move the Battery Master lever to OFF

Figure 45 – Interruption of the Power Supply from the Control Panel

MANUAL DISCONNECTION OF THE BATTERIES



PERFORM THIS PROCEDURE ONLY WHEN THE ENGINES ARE SWITCHED OFF AND THE ROTORS ARE STOPPED



IN CASE OF NEED TO RECONNECT THE BATTERIES CONTACT LHD AI&P TEAM – RISK OF CVFDR DATA LOSS

See Figure 29 for the nose radome door opening procedure



Rotate counterclockwise the knob

Figure 46 – Battery Location and Disconnection Procedure

ADJUSTMENT OF THE PILOT SEATS



Raise the right-hand lever below the seat pan to unlock and move backward/forward the seat

Figure 47 – Adjustment of the Pilot Seats

REMOVAL OF THE PILOT SEAT



SEAT REMOVAL MAY REQUIRE THE USE OF THE SPREADER-CUTTER



Figure 48 – Removal of the Pilot Seats