



Exploration & Production

GENERAL SPECIFICATION

Logistics and Operational Support

GS EP LSO 141

Technical Specification for Helicopter

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1. Scope

These general specifications apply to all the helicopters contracted by TOTAL.

There are two categories of equipments requirements depending on the duration of the contract:

- Short term contract (less than one year).
- Long term contract (more than one year).

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
ICAO Annex 6 Part 3 JAR OPS 3	Operation of Aircraft / International operations - Helicopters Commercial Air Transportation (Helicopters)

Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	

**Total General Specifications**

Reference	Title
Not applicable	

3. Helicopter general specifications**3.1 Engine**

Only multi engine helicopter shall be used for passenger transport. For internal or external cargo transportation, a single engine helicopter is acceptable.

3.2 Age limitation

The helicopter manufacturer date shall be aged less than 25 years for all the contract duration.

3.3 Certification

The helicopter shall be certified under FAR 27/29 or EASA CS 27/29

3.4 Spare parts

Minimum stock level shall guarantee operational availability of the AIRCRAFT. As a rule, two policies are defined:

- A policy pertaining to scheduled maintenance works/operations. The requisite materials (components or parts) should be available for the maintenance teams two (2) weeks or fifty (50) hours in advance of the due date for the operation.
- A policy pertaining to unscheduled maintenance works/operations. The minimum stock must be defined according to the reliability of the materials, the experience of the company depending on the current flying rate of the helicopters. The country customs delivery procedures shall be taken into consideration (time scale to clear out spare parts). For remote operations, items of category A mentioned in the approved Minimum Equipment List should be available on site.

A satisfactory arrangement with an approved area supplier (approved/accepted by the manufacturer) for main components is also acceptable.

4. Helicopter equipment configuration for long term contract

The equipment list is based on the [ICAO Annex 6 Part 3](#) with additional requirements from TOTAL (see exhibit C1 of TOTAL standard contract # 1304).



4.1 Offshore operations with Helicopter certified for 7 passengers or more

Helicopter shall be certified for the instrument flight and equipped with the following list of equipments:

Weather radar
a) with minimum scale of 2.5 nm
b) with a beacon mode (capable to detect a SART)
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Removable ELT with buoyancy
ADELTA (only for hostile environment as defined by JAR OPS 3)
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
SART (Search and Rescue Transponder)
ULB (Underwater Locator Beacon)
Shoulder harness for passengers (3 or 4 of attach point)
Public Address for passengers
Push out windows on sliding doors
Push out windows on all windows exits
Sufficient life raft according to the applicable regulation
Externally fitted life raft (if certified)
Reversible life raft or equivalent system
Emergency floatation gear
AFDS (Automatic Flotation Deployment System) if certified
HEEL (Helicopter Emergency Exit Lighting)
Passenger Life-Jacket with crotch strap systematically wear during flight (not stored in a pouch)
Emergency exit guidance bar (if certified)
EGPWS / TAWS
TCAS / ACAS I / Skywatch
Rad Alt
Audio alarm on Rad Alt
AVAD (Voice Alarm on radio altimeter)
Flight Hour Meter



FDR (Flight Data Recorder)
CVR (Cockpit Voice Recorder)
HUMS (Health and Usage Monitoring System) or equivalent.
Auto Pilot
FDM/ HOMP / FOQA
Flight Director

4.2 Offshore operations with Helicopter certified for 6 passengers or less

Helicopter shall be certified for the instrument flight and equipped with the following list of equipments:

Weather radar
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Removable ELT with buoyancy
ADELT (only for hostile environment as defined by JAR OPS 3)
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
SART (Search and Rescue Transponder)
ULB (Underwater Locator Beacon)
Shoulder harness for passengers (3 or 4 of attach point)
Push out windows on sliding doors
Push out windows on all windows exits
Sufficient life raft according to the applicable regulation
Reversible life raft or equivalent system
Emergency floatation gear
Passenger Life-Jacket with crotch strap systematically wear during flight (not stored in a pouch)
Rad Alt
Audio alarm on Rad Alt
AVAD (Voice Alarm on radio altimeter)
CVR (Cockpit Voice Recorder)
HUMS (Health and Usage Monitoring System) or equivalent.



Auto Pilot
Flight Director

4.2.1 For offshore operation, in particular environment, additional equipments could be required as:

Satellite tracking system
Polar survival kit
De-icing system
Underwater breathing system or equivalent
Emergency Personal Locator Beacon
Airborne Rescue Kit Equipment (if applicable)
FMS (Flight Management System)
Auto Pilot (four axes)
Survival suit for crew and passengers (if applicable)

4.3 Onshore operations with Helicopter certified for 7 passengers or more

Helicopter shall be certified for the instrument flight and equipped with the following list of equipment:

Weather radar
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
Shoulder harness for passengers (3 or 4 of attach point)
Public Address for passengers
EGPWS / TAWS
TCAS / ACAS I / Skywatch
Rad Alt
Audio alarm on Rad Alt
AVAD (Voice Alarm on radio altimeter)
Flight Hour Meter
FDR (Flight Data Recorder)
CVR (Cockpit Voice Recorder)



HUMS (Health and Usage Monitoring System) or equivalent.
Auto Pilot
FDM/ HOMP / FOQA (only for helicopter over 7 t or with passenger seating configuration more than 9)
Flight Director

4.4 Onshore operations with Helicopter certified for 6 passengers or less

Helicopter shall be equipped with the following list of equipment:

Weather radar
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
Shoulder harness for passengers (3 or 4 of attach point)
Rad Alt
Audio alarm on Rad Alt
Flight Hour Meter
CVR (Cockpit Voice Recorder)
HUMS (Health and Usage Monitoring System) or equivalent.

4.4.1 For onshore operation, in particular environment, additional equipments could be required as:

Satellite tracking system
Polar survival kit
Desert survival kit
Jungle survival kit
Emergency Personal Locator Beacon
De-icing system



5. Helicopter equipment configuration for short term contract

5.1 Offshore operations with Helicopter certified for 7 passengers or more

Helicopter shall be certified for the instrument flight and equipped with the following list of equipments:

Weather radar
a) with minimum scale of 2.5 nm
b) with a beacon mode (capable to detect a SART)
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Removable ELT with buoyancy
ADELTA (only for hostile environment as defined by JAR OPS 3)
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
SART (Search and Rescue Transponder)
ULB (Underwater Locator Beacon)
Shoulder harness for passengers (3 or 4 of attach point)
Public Address for passengers
Push out windows on sliding doors
Push out windows on all windows exits
Sufficient life raft according to the applicable regulation
Externally fitted life raft (if certified)
Reversible life raft or equivalent system
Emergency floatation gear
HEEL (Helicopter Emergency Exit Lighting)
Passenger Life-Jacket with crotch strap systematically wear during flight (not stored in a pouch)
Emergency exit guidance bar (if certified)
Rad Alt
Audio alarm on Rad Alt
AVAD (Voice Alarm on radio altimeter)
Flight Hour Meter
FDR (Flight Data Recorder)
CVR (Cockpit Voice Recorder)



HUMS (Health and Usage Monitoring System) or equivalent.
Auto Pilot
Flight Director

5.2 Offshore operations with Helicopter certified for 6 passengers or less

Helicopter shall be certified for the instrument flight and equipped with the following list of equipments:

Weather radar
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Removable ELT with buoyancy
ADELTA (only for hostile environment as defined by JAR OPS 3)
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
SART (Search and Rescue Transponder)
ULB (Underwater Locator Beacon)
Shoulder harness for passengers (3 or 4 of attach point)
Push out windows on sliding doors
Push out windows on all windows exits
Sufficient life raft according to the applicable regulation
Reversible life raft or equivalent system
Emergency floatation gear
Passenger Life-Jacket with crotch strap systematically wear during flight (not stored in a pouch)
Rad Alt
Audio alarm on Rad Alt
AVAD (Voice Alarm on radio altimeter)
CVR (Cockpit Voice Recorder)

**5.2.1 For offshore operation, in particular environment, additional equipments could be required as:**

Satellite tracking system
Polar survival kit
De-icing system
Underwater breathing system or equivalent
Emergency Personal Locator Beacon
Airborne Rescue Kit Equipment (if applicable)
FMS (Flight Management System)
Auto Pilot (four axes)
Survival suit for crew and passengers (if applicable)

5.3 Onshore operations with Helicopter certified for 7 passengers or more

Helicopter shall be certified for the instrument flight and equipped with the following list of equipment:

Weather radar
GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
Shoulder harness for passengers (3 or 4 of attach point)
Public Address for passengers
Rad Alt
Audio alarm on Rad Alt
FDR (Flight Data Recorder)
CVR (Cockpit Voice Recorder)
HUMS (Health and Usage Monitoring System) or equivalent.
Auto Pilot
Flight Director



5.4 Onshore operations with Helicopter certified for 6 passengers or less

Helicopter shall be equipped with the following list of equipment:

GPS
Fixed ELT (Emergency Locator Transmitter) on the airframe
Cospas-Sarsat 406 MHz ELT
SARBE portable beacon for each crew member (emission & reception)
Shoulder harness for passengers (3 or 4 of attach point)
Rad Alt
Audio alarm on Rad Alt
Flight Hour Meter

5.4.1 For onshore operation, in particular environment, additional equipments could be required as:

Satellite tracking system
Polar survival kit
Desert survival kit
Jungle survival kit
Emergency Personal Locator Beacon
De-icing system
Helicopter hook
Carrousel device
Short line cargo sling
Long line cargo sling
Logging long line
Sand filter or multi-purpose air intake
Load meter
Electrically adjustable mirrors
Bubble door