

# FLIGHT OPERATION INSTRUCTION – FOI 111

ieX FOI 111 V1.0 Sept 10

## Hastings Fire Service Level 3 Line Rescue Procedure

### 1. Introduction

This procedure is to be implemented for the helicopter transportation of Level 3 Line Rescue equipment and fire service personnel to remote areas in the Eastland Region of the North Island.

### 2. Photo of Level 3 Line Rescue Equipment



*Level 3 Line Rescue Equipment*

### 3. Equipment List

The Level 3 Line Rescue equipment consists of the following four items;

- Sledge hammer, & 2 steel anchor points (10Kg)
- Red equipment bag (14Kg)
- Black equipment bag (14Kg)
- Orange equipment bag (16 Kg)

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## 4. Dispatch

The call to initiate a Level 3 Line Rescue response will be made by the Fire Service via the Emergency Ambulance Communication Centre (Central Comms) who will page the rescue helicopter crew. Hastings Fire Service personnel and Level 3 Line Rescue equipment will proceed to the rescue helicopter base.

## 5. Aircraft

The BK117 helicopter, Air 1 Hastings (IBK) is to be utilized in the first instance, however if it is already responding to the same incident with a medical team, or away on another task and unavailable the Squirrel, Air 2 Hastings (HFZ) should be used.

## 6. Crewing

Along with the pilot and crewmen, 3 firemen in full level 2 gear will crew the helicopter.

Please note that with Air 1 Hastings a crewman can be taken, but not with Air 2 Hastings.

## 7. BK117 Equipment Location in Aircraft

- Secure all equipment in rear cabin.



*BK117 rear cabin*

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## 8. Squirrel Equipment Location in Aircraft

- Remove all medical equipment from side lockers and rear locker.
- Place the black bag, sledge hammer and two steel anchor points in the left hand side locker..



Squirrel side locker storage

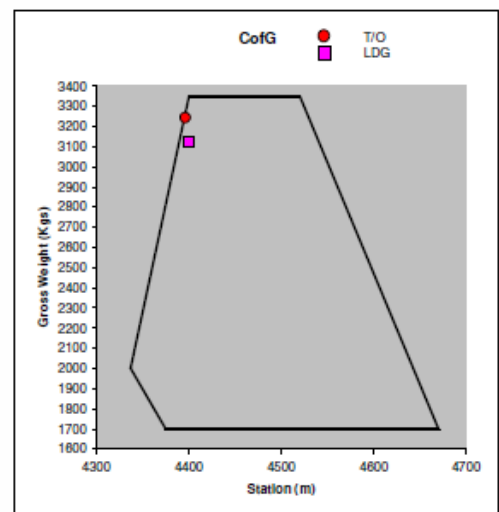


Squirrel rear locker storage

## 9. Typical Weight & Balance Air 1 Hastings (BK117)

SKYLINE AVIATION LTD AMBULANCE FLIGHT MANIFEST			
Aircraft Type	BK117 B2	Pilot	B Williams
Registration	ZK-IBK	Date	07-Sep-10
Departure Port	HS	Destination	Gisborne
Passengers/Cargo			
	Name	Declared Wt	Weight
Pilot	Pilot	90	94
Co - Pilot	Crew	90	94
Rear Facing L	Firemen 1	100	104
Rear Facing C		0	0
Rear Facing R	Firemen 2	100	104
Patient	Level 3 Line Rescue Equip	54	58
Fwd Facing Rear	Firemen 3	100	104
			0
			0
Medical Equipme	Thomas Pack, Suction, Lifepac		47
Oxygen	Fitted		17
Stretcher			0
Hook			0
Nightsun			0
Winch	Fitted		71
Max T/O, Ldg Alt	Distance	Totals	694
0	82	A/C OP Wt	1935
Max OAT	20	Zero Fuel	2629
Max Wt IGE	3350kg	Fuel %	100%
Max Wt OGE	3150kg	Act T/O Wt	3196
C of G T/O	C of G Ldg	Act Ldg Wt	3125
4396.32	4400.54		
Within Limits	Within Limits		

OGE MCT OVERLOAD



Flight times calculated @ 120 Kts  
Fuel calculated with 20% reserve

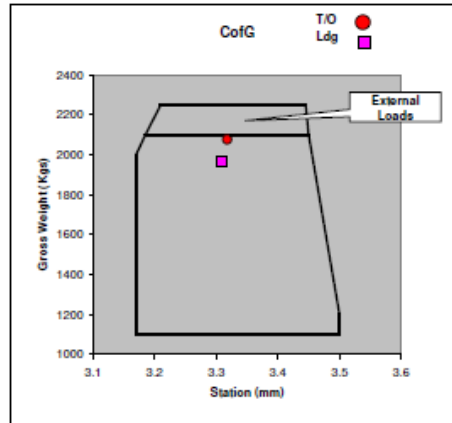
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## 9. Typical Weight & Balance Air 2 Hastings (Squirrel)

Ambulance Load Sheet

SKYLINE AVIATION LTD AMBULANCE FLIGHT MANIFEST			
Aircraft Type	AS350BA	Pilot	B Williams
Registration	ZK-HFZ	Date	7/09/2010
Departure Port	HS	Destination	Gisborne
Passengers/Cargo			
	Name	Declared Wt	Weight
Pilot	Pilot	90 kg	94 kg
Crew (Front Seat)			
Patient			
Paramedic	Firemen 1	100 kg	104 kg
Int Cargo	Medical & Flight Gear		5 kg
Rear Pax	Firement 2	100 kg	104 kg
Rear Pax	Firemen 3	100 kg	104 kg
Rear Pax			
Cargo Flight	Medical Gear		13 kg
Cargo Left	Level 3 Equipment		24 kg
Cargo Rear	Level 3 Equipment		30 kg
Night Sun			
Winch			
FLIR		Pod Load	
Pod			
Max T/O Ldg Alt	Distance	Totals	478 kg
1000	82	A/C OP Wt	1338 kg
Max OAT	20	Zero Fuel	1816 kg
Max Wt IGE	2100kg	Fuel %	60%
Max Wt OGE	2250kg	Act T/O Wt	2072 kg
C of G T/O	C of G Ldg	Act Ldg Wt	1966 kg
3.32	3.31		
OK	OK		



Flight times calculated @ 110 Kts  
Fuel calculated with 20% reserve

**INSUFFICIENT FUEL FOR RETURN**