

IKAR AIR RESCUE REPORT 2015

Killarney, Ireland





Maryland State Police "Sheared Cable"

- During a night training evolution
- Planning on a Basket only drop to a confined area
- Hoist operator was using the hoist light as a search light when the bridge of his finger raised the shear cover shearing the cable



The Design





CAUTION
THE OPERATOR'S HAND MUST
BE ON THE CABLE AT ALL TIMES
DURING HOIST OPERATION

MAX HOIST OR BOOM LOAD
272 kg (600 lb)

CABLE CUTTER UNDER
HOIST OPERATOR SEAT

EMERGENCY
PUSH HERE

EMERGENCY
PUSH HERE



EMERGENCY
PUSH HERE



FLAMMABLE

As a result...

- Discussions with manufactures
- Switch “Guard”
- Hoist light is a hoist light and not a search light
- Hoist operator verbal and visual confirmation
- Once evolution started – NO manipulations made

“Fix”



Santa Barbara County Sheriff's Office

- Hoist Malfunction
- July 2, 2015
- Marijuana Eradication
- Extrication via hoist
- Crew Chief noticed the hoist was faster than normal and that the pendant was not responding to his inputs



Santa Barbara County Sheriff's Office



- **Alerted the pilot who overrode the hoist DOWN**
- **Hoist lowered faster than normal**
- **Subject landed faster than normal**
- **Hoist was removed from service**



Los Angeles County Fire

August 16, 2015



- Montebello Fire
- HeloCo
- Dual Engine Failure
- 3 on board minor injuries





OnScene.TV



Travis County *STAR* Flight

April 27, 2015

- Kristin McLain



Travis County *STAR Flight*

- Night search for missing and injured hiker on the Barton Creek Greenbelt
- Crew located and directed ground personnel to the victim
- *STAR Flight* requested to perform a hoist extrication of a injured patient



Travis County *STAR Flight*

- Uneventful insertion
- During extrication a slow spin started
- Crew initiated forward air speed
- As the spin stopped, Kristin was observed to be riding lower than normal, then fell from the line



Equipment Used During Incident





Mountain Club of South Africa

Search and Rescue

June 2013

- Hoist Training Event
- 2 SAR volunteers being hoisted
- ~8-10 M, flat terrain, 1 member fell sustaining severe injuries



MCSA

- Victim failed to connect himself to the hoist hook
- Inadequate safety checks
- Checked the number of carabiners that should be connected to the hoist hook
- Failed to account for an extra carabiner attached to rope bag



Hoist configuration with the five primary connecting carabiners as expected by the hoist buddy

(for illustrative and explanatory purposes only based on interviews and submitted photos)

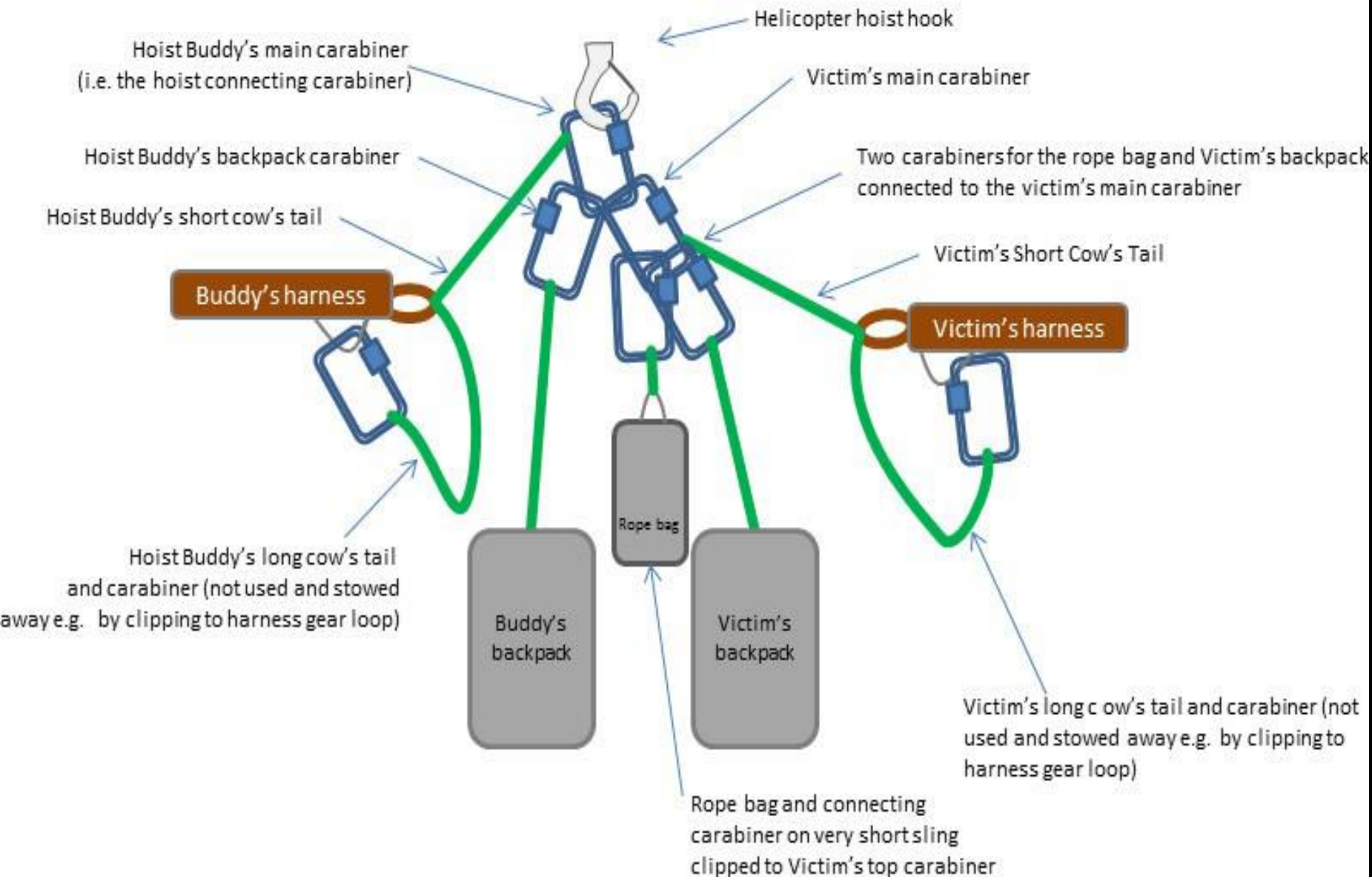
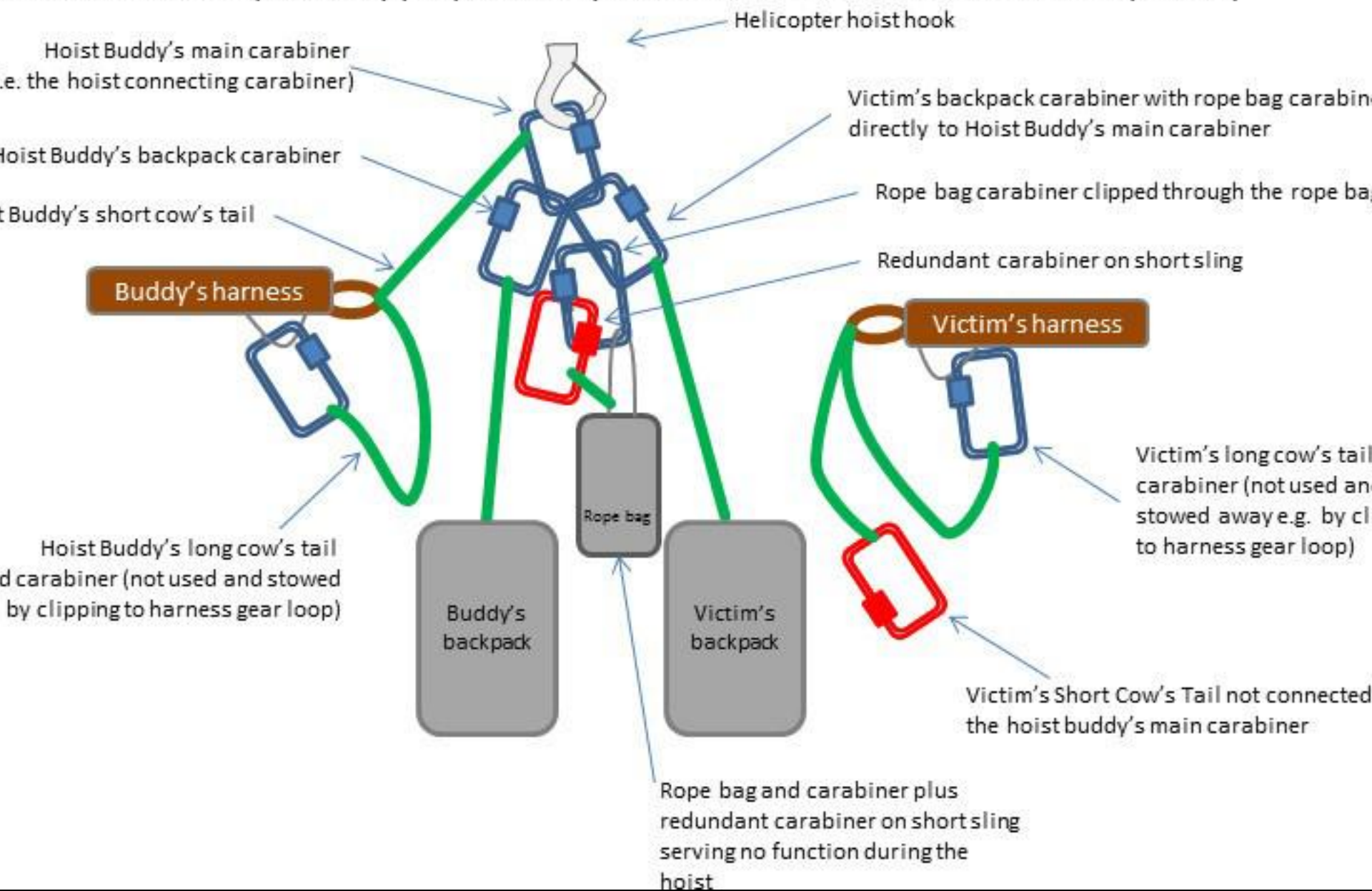


Diagram illustrating the actual hoist configuration showing 5 carabiners connected to the hoist which excludes the Victim's main hoist safety connection carabiner (for illustrative and explanatory purposes only based on interviews and submitted photos)



MCSA

- At commencement of hoist victim was holding on
- Victim weight partially supported by sitting on packs
- Upon arrival at helicopter unable to hold on
- Personnel on ground noticed something wrong but did not have communications with the aircraft

Mexico Rappel



Utah State Police

- Wasatch Front, Lone Peak, SW of Salt Lake City, Utah
- Night time search for missing hiker
- Victim located in the morning
- 3 one skid insertion of 5 SAR personnel
- Victim deceased
- Lowered to insertion extrication site



















