

Workshop

Aerodrome Surroundings

Aeroporto di Fiumicino, 26 Settembre 2018

***Il processo decisionale-operativo
dell'equipaggio a fronte di ostacoli e pericoli in
prossimità degli aeroporti***



Com.te Giuseppe Borgna

Italian Flight Safety Committee

Più dell'80% degli incidenti aerei commerciali si verificano in aeroporto o nelle sue vicinanze



AERODROME SURROUNDINGS HAZARDS

- QUALI SONO GLI HAZARDS
- QUALI SONO LE POTENZIALI CONSEGUENZE
- COME REAGISCONO I PILOTI
- COME DECIDONO

ATIS:

**USE CAUTION, NUMEROUS BIRDS IN THE
VICINITY OF AIRPORT**

Aircraft collision with Unmanned aircraft

AIRPORT & AIRPORT SURROUNDINGS HAZARDS

-
-
- WILDLIFE STRIKE
- FOD
- FIREWORKS/LANTERNE CINESI/HELIUM FILLED BALLOONS
- LASERBEAMS/SEARCHLIGHTS
- DRONI

PERCHE' QUESTI HAZARDS E NON TUTTI GLI ALTRI?



FOD



LUGLIO 2000

FOD

FEBBRAIO 2010

AIR ASIA – CHANGI AIRPORT



WILDLIFE STRIKE



WILDLIFE STRIKE



FIREWORKS/SKY LANTERNS



Workshop, Aerodrome Surroundings
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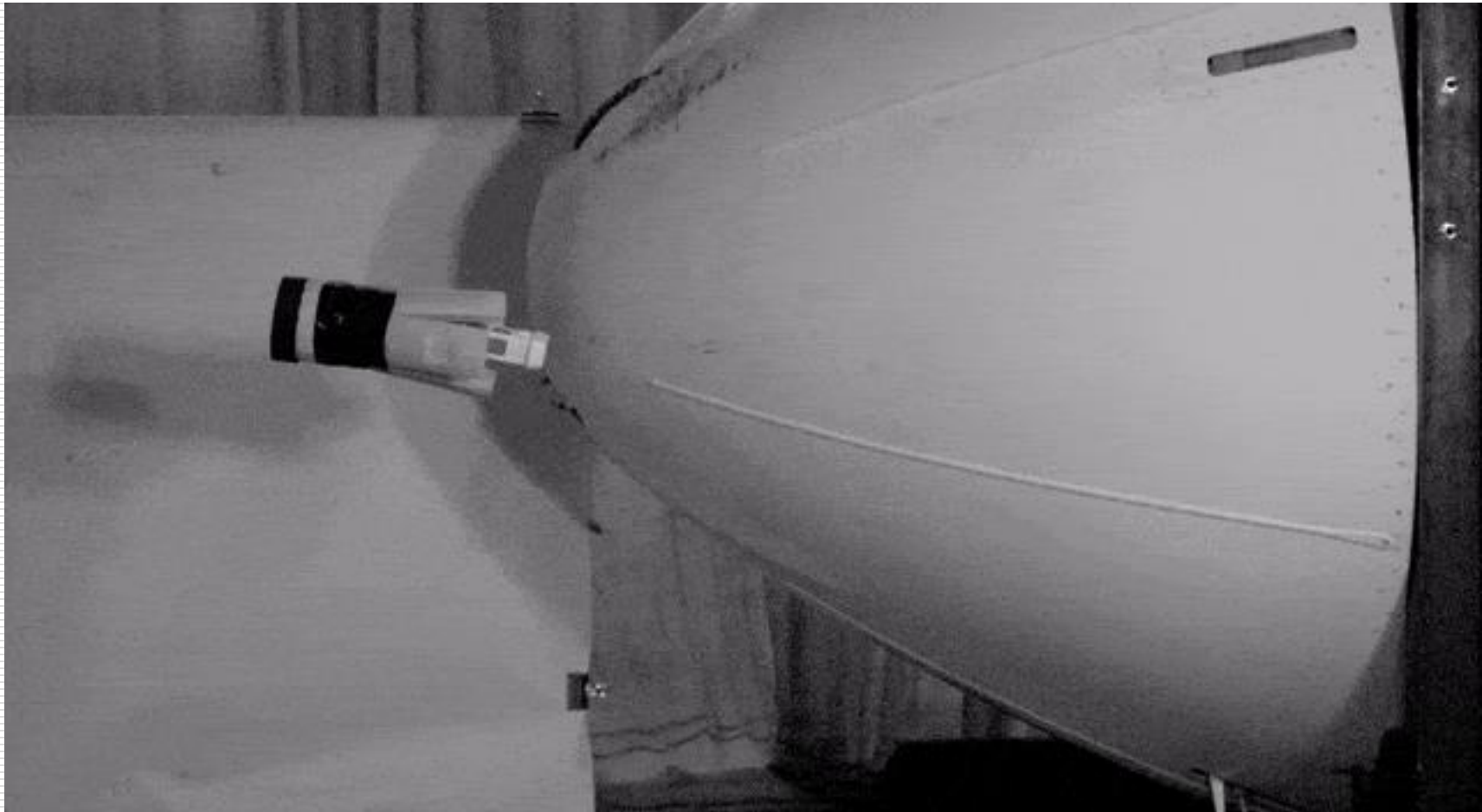
LASERBEAM/SEARCHLIGHTS



DRONI



DRONI



QUALI I RISCHI MAGGIORI?

- COLLISIONI CON DANNI PIU' O MENO GRAVI
- CECITA' TEMPORANEA
- ABBAGLIAMENTO
- CONFUSIONE
- DISTRAZIONE

COME REAGISCE IL PILOTA?

HANDLING THE RISK IN CRITICAL PHASES OF FLIGHT

REACT JUST AS ALL PILOTS SHOULD

- MAINTAINING CONTROL OF THE A/C
- ASSESS THE DAMAGE
- WEIGH THE ALTERNATIVES

USE THE CHECKLIST

1.1 GUIDELINE FOR SITUATION BEYOND THE SCOPE OF NON NORMAL PROCEDURES

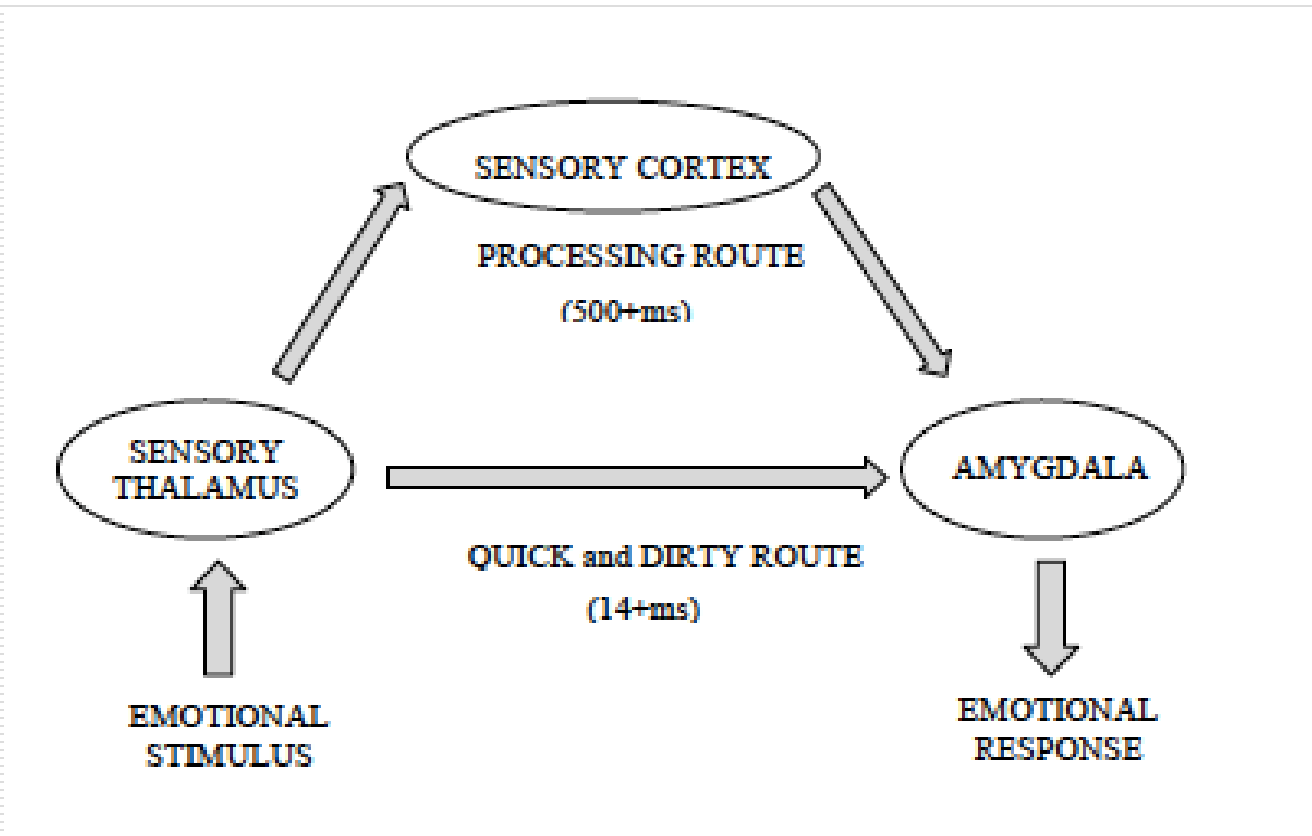
It is rare to encounter inflight events which are beyond the scope of the recommended non-normal procedures. These events can arise as a result of unusual occurrences such as a midair collision, bomb explosion or other major malfunction. In these situations the flight crew may be required to accomplish multiple non-normal checklists, selected elements of several different checklists applied as necessary to fit the situation or be faced with little or no specific guidance except their own judgement and experience. Because of the highly infrequent nature of these occurrences, it is not practical or possible to create definitive flight crew procedures to cover all events.

The following guidelines may aid the flight crew in determining the proper course of action should an inflight event of this type be encountered. Although these guidelines represent what might be called "conventional wisdom", circumstances will determine the course of action which the crew perceives will conclude the flight in the safest manner.

“STARTLE”

...IS A BRIEF, FAST AND HIGHLY PHYSIOLOGICAL REACTION TO A SUDDEN, INTENSE, OR THREATENING STIMULUS, SUCH AS THE SOUND OF A PISTOL SHOT...

....può portare ad un deterioramento cognitivo con implicazioni sul decision making, problem solving, situational awareness...



Fonte: Griffith Univ. "The effects of Startle on Pilots during critical events" - 2012

QUALI POSSONO ESSERE GLI EFFETTI E LE CONSEGUENZE?



