PA-RAST/30

MAC Team Status November 2017



List of Detailed Implementation Plans (DIP)

- 1. Prevention of Level Bust events: adoption of recommendations from Eurocontrol's Action Plan
- 2. Prevention of Level Bust events: flight crew and ATCO training review (Eurocontrol's Level Bust Toolkit)
- 3. Callsign Confusion Avoidance: review flight designation processes to avoid communication flaws
- 4. Human factors: Pilots' Role in Collision Avoidance (incorporation of FAA AC 90-48D recommendations)
- 5. Radio Discipline: use of standard ICAO phraseology
- 6. Radio Discipline: avoiding multiple clearances in the same transmission

Prevention of Level Bust events: adoption of recommendations from Eurocontrol's Action Plan

- Reference document: Eurocontrol's Action Plan for the prevention of Level Busts
- Objective: Implement recommendations:
 - Update SOPs to reduce likelihood to level busts (e.g. reduce vertical speeds close to the end of climb);
 - Reduce flight deck workload by avoiding all activity not directly related to the safe conduct of the flight;
 - Ensure clear procedures for altimeter cross-checking and approaching level calls;
 - Always confirm the clearance if any doubt exists on the flight deck;
 - Always report the level cleared to when checking in on a new frequency while in the climb or descent.

Category	Leader	Affects
Training / Procedures	Brazil / Costa Rica	Airlines

Actions	Status
Translate BCAST Toolkits to Spanish	Not implemented
Send information to airlines (national level)	Not implemented

https://www.skybrary.aero/index.php/ European_Action_Plan_for_the_Preve ntion_of_Level_Bust

Prevention of Level Bust events: flight crew and ATCO training review (Eurocontrol's Level Bust Toolkit)

- Reference document: Eurocontrol's Level Bust Toolkit https://www.skybrary.aero/index.php/Toolkit:Level_Bust
- Objective: Incorporate the Tookit's contents into the flight crew and ATCO training programs.
- Strategy:
 Adoption by airlines and ANSP
 information ("top tips") and/or a
 30 minute e-learning module.

Category	Leader	Affects
Training / Procedures	Aerocivil Colombia	Airlines / ANSP

Actions	Status
Translation of relevant contents to Spanish	Delayed
Translation of relevant contents to Portuguese	Completed
Recommendation to airlines	In progress
Recommendation to ANSPs	In progress

Callsign Confusion Avoidance: review flight designation processes to avoid communication flaws

- Reference documents:
 - Eurocontrol's Call Sign Similarity (CSS) Service
 - FAA AC 120-26L
- Objective:
 Reduce the number of communication flaws related to callsign confusion.
- Strategy:
 At national level, gather data and review callsign designation rules.

Category	Leader	Affects
Regulation	BCAST	CAA / ANSP

Actions	Status
Identify patterns	In progress
Implement callsign designation process changes	In progress

https://www.skybrary.aero/index.php/ Call-sign_Confusion

Human factors: Pilots' Role in Collision Avoidance (incorporation of FAA AC 90-48D recommendations)

- Reference documents:
 - FAA AC 90-48D
- Objective: Increase crew awareness of potential MAC and NMAC situations and proactive actions.
- Strategy: Evaluate pilot awareness of the AC contents.

Category	Leader	Affects
Training / procedures	Brazil / IATA	Airlines (pilots)

Actions	Status
Design survey	Completed
Translate survey to pt_br and es	In progress
Send survey to pilots	TBD (late)
Evaluate survey	TBD

https://www.surveymonkey.com/r/Preview/?sm=Ana5h2dmkBNtY8ZEiuGeJcJvv84oOr2BLl3wc_2B8mR9Y7mlz6yBlgxK_2BkEB9uvBgR

Radio Discipline: use of standard ICAO phraseology

- Reference documents:
 - Eurocontrol's:
 - Action Plan for the Prevention of Level Bust
 - A Quick Reference Guide for Commercial Air Transport Pilots
- Objective:
 Ensure proper phraseology use, including language review.
- Strategy: <under review>

Category	Leader	Affects
Regulation	TBD	CAA / ANSP

Actions	Status
Not implemented	Not implemented

https://www.skybrary.aero/index.php/European _Action_Plan_for_the_Prevention_of_Level_Bust

Radio Discipline: avoid giving multiple clearances in the same transmission

- Reference documents:
 - Eurocontrol's:
 - Action Plan for the Prevention of Level Bust
 - A Quick Reference Guide for Commercial Air Transport Pilots
- Objective: Avoid communication mishaps.
- Strategy:
 - To further implement the "Top Tips" in actual training – under review

Category	Leader	Affects
Training / Procedures	TBD	CAA / ANSP

Actions	Status
Not implemented	Not implemented

https://www.skybrary.aero/index.php/European _Action_Plan_for_the_Prevention_of_Level_Bust

Topics under consideration

- RPAS integration into airspace:
 - Relevant MAC cases
 - Other: law enforcement interface
 - Argentina B738 "Drone Strike"
 (http://avherald.com/h?article=4b0e37e6)
 - Where to get data from?
 - Proactive actions to be taken?
- Other emerging issues:
 - Increased city transportation (UBER-like systems)
 - Increased balloon / high altitude operations (FL600)

Final thoughts

Any other questions?

Obrigado!

Thank you!

Gracias!



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