



## **DANGEROUS GOODS PANEL (DGP)**

### **TWENTY-FIFTH MEETING**

**Montréal, 19 to 30 October 2015**

**Agenda Item 5: Development of a comprehensive strategy to mitigate risks associated with the transport of lithium batteries including development of performance-based packaging standards and efforts to facilitate compliance**

### **EUROPEAN AVIATION SAFETY AGENCY (EASA)'S LITHIUM BATTERY PROJECTS**

(Presented by Lia Calleja Barcena)

#### **SUMMARY**

This information paper includes, in Appendix, the presentation given by Lia Calleja Barcena on European Aviation Safety Agency (EASA)'s Research Project for the Transport of Lithium Batteries by Air.

The objectives of the project are finding mitigating measures and conditions that would allow for the safe transport of lithium metal and lithium ion batteries on board an aircraft.

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**APPENDIX**  
**EASA'S LITHIUM BATTERY PROJECTS**





**EASA**  
European Aviation Safety Agency

# EASA's Lithium Battery Projects

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- EASA's Research Project for the Transport of Lithium Batteries by Air
  
- EASA's Lithium Battery Project:
  - Cargo
  - Passenger



# Description of the Research Project

- **Scope:** Fire risk(s) associated to the transport of Lithium metal and ion batteries in transport aircraft.
- **Objectives:** finding MITIGATING MEASURES and conditions that would allow for the safe transport of lithium metal and lithium ion batteries on board an aircraft
- Milestones
  - Determination of the limit of lithium metal and ion batteries that would be safe to carry in an aircraft
  - Determination of standards for an appropriate packaging
  - Evaluation of fire fighting/suppression systems
- **Budget: 1,000.000 Euros**



# Research Project

Action	Action	Timeframe		In charge
		From	Until/By	
1	To provide template to EASA Focal Points for common/consistent use	-	15/10/15	EASA
2	To contact potential parties with the capability for carrying out the work intended (preliminary feasibility check)	08/10/15	15/10/15	EASA
3	To draft the Technical Specifications (based on the environmental related specifications, as much as possible)	15/10/15	15/11/15	EASA
4	To review the first draft technical specifications for completeness and consistency	15/11/15	01/12/15	EASA
5	To finalise the technical specifications	01/12/15	18/12/15	EASA
6	To submit the technical specifications to the EU Commission	-	23/12/15	EASA
	EASA closed	24/12/15	03/01/16	
7	To publish the open call for tender – CAQ	-	End January 2016	EU Commission
8	To publish the open call for tender – Li Battery	-	End February 2016	EU Commission
9	To publish the open call for tender – FTL	-	End March 2016	EU Commission





# Lithium Battery Project

## ➤ Objective:

**Minimise the risks associated with transport** of Lithium batteries by raising the awareness of the airline industry and travelling public

## ➤ Method:

➤ Information to Operators

➤ Passenger Awareness - ECAST



## Part I: Lithium Batteries as Cargo

➤ Publication of Safety Information Bulletin:

<http://ad.easa.europa.eu/ad/2015-19>

EASA strongly recommends operators, before engaging in the transport of lithium batteries/cells as cargo in passenger or freighter aircraft, conduct a safety risk assessment in order to establish whether the risk is manageable.

EASA also recommends NAAs to include this element in their oversight programme.



## Part II: Passenger Awareness – ECAST

- **Objective:** Reduce incidents on board.
- **Method:** Inform passengers to prevent them from unintentionally carrying not-allowed items, while acknowledging the risks posed by batteries.
- **Original proposal:**
  - Gather material, compile, and publish under ECAST
- Different outcome after meeting September 3<sup>rd</sup>.



## Actions for EASA - Potential

- Poster/leaflet on the ECAST website by Q4 2015
- Poster to be distributed to airport operators
- EASA Safety Promotion Webpage on Lithium Batt in 2016
- Bag-tags (EASA, DGAC) with picture/pictogram, and statement: “in case of doubt, ask staff” - ?
- SIB on Passenger Awareness - ?
- Simplifying Part 8 of the Technical Instructions – App?
- Longer term dissemination: through NAA, ECAST, ICAO, social media of EASA, etc.
- Longer-term proposals: EASA proposing article for in-flight magazines.



# Airport Operators

- Consider including the requirement from the Technical Instructions for the Airport's Operators on information to passengers in 139/2014
- Contacted FP in airports to help distribute the material developed through ECAST



# Amendment to Air OPS

## ➤ GM for the Safety Briefing Information:

(9) portable electronic devices:

(i) allowed versus forbidden devices;

(ii) use in various flight phases including during safety briefing;

(iii) stowage;

**(iv) danger of fire in case the device is damaged;**

**(v) the need to call for immediate assistance in case a device is damaged, hot, produces smoke, is lost, or falls into the seat structure with the associated risk of manipulating the seat;**

**(vi) the need to monitor devices during charging;**



## Other actions

- UK CAA offered to study producing a video (EASA will study this as well)
- Dissemination – IATA was asked to request the operators to combine this information with the security information, and whether operators could include information on lithium batteries in the boarding passes
- This may also be raised in the DGELG meeting.



**EASA**  
European Aviation Safety Agency

Questions?



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