



Update on the Airworthiness Panel (AIRP) Activities

Maimuna Taal - Ndure

MTaal@icao.int Secretary to the AIRP

DGP/26 Panel Coordination Montréal, 20 Oct 2017





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AIRP Job Cards with DGP in a supporting role

"Cargo compartment fire suppression provisions" -

- Cargo compartment fire suppression provision in Annex 8, need review due to inconsistencies with current practice.
 - The SARP required effects of an explosive or incendiary device or DG to be taken into account in the design of cargo compartment fire suppression system.
 - Other design code considerations (FAR 25.795 or CS 25.795)
 - Explicitly considering the threat is difficult due to number of variables involved.
 - Baseline information needed on cargo compartment fire suppression capability is **not** readily available.

Job-card AIRP.011.01

Title	Cargo compartment fire suppression provisions	Reference:	AIRP.011.01					
Source	AIRP/3 Report, Air Navigation Commission (200-13, 201-5, 6 and 8)							
Problem Statement	Risks posed by the transport of cargo by air may not be sufficiently mitigated because: a) Annex 18 and the Technical Instructions base risk mitigation at the paidage level without taking the aircrafts cargo compartment fire suppression capabilities fully into account. These risk mitigations may be incomplete the may be challenging to de because information on cargo compartment fire suppression capabilities is not readil available; and . b) a number of variables needed to quartify the risk of an occurrence involving Dangerous Goods (DG) are unknown, making it impossible to fully comply with the Anne requirement for DG to be taken into account when descioning cargo compartment fire suppression systems.							
Specific Details (including impact statements)	requirement for DG to be taken into account when designing cargo compartment fire suppression systems. Annex 8, Part IIIA § 4.1 fig) and Part IIIB § 4.2 g.l.) requires the effects of an explosive or incendiary device or DG to be taken into account in the designing cargo compartment fire suppression systems in large aeroplanes. Current design odes, such as FAR § 2.7 95 or CS 25.795, clearly address the threat from a very large or incendiary device or DG to be taken into account in the design compartment fire suppression systems in large aeroplanes. Current design odes, such as FAR § 2.7 95 or CS 25.795, clearly address the threat from a very large or incendiary device or DG to a compartment for suppression or such as the cargo compartment for suppression and the processing site including the types and quantities of DG without exploration and aeroplane types. Many of these variables are unknown during the aircraft design phase, making it impossible to quantify a fixed threat. Add including the special including the package of part Aircraft cargo compartment for suppression capabilities and the package of the cargo compartment fire suppression capabilities in not readily available. The DG provisions do distinguish between passenger and freighter aircraft whereby some extractions are applied to the former, but redy on of differentiatives. Mitigating at the package level was considered efficiency when the DG provisions of the package of the cargo compartment freight in the package level was considered efficient when the DG provisions of the package of the cargo compartment freight in the package level was considered efficient when the DG provisions of the package and the package level was considered efficient when the DG provisions of the package and the package level was considered efficient when the DG provisions of the package of the package and the package of							
Expected Benefit	Clarification about the large exerolares design capability related to cargo compartment fire protection provisions in Arrex 80 under PART IIIA and IIIB will lead to a signification improvement in easify by ensuring a deputate information as relevant to executives of insortions explored instancions (America 8) being made as used ratelar into account Arrex 18. The resulting complementary information will facilitate the development by operation of the risk assessment for the carriage of DOB by air. An additional benefit, as a providing accurated data in the overall regulatory scheme in Amers. 18, to including the proper positions grip of DOB by any carried of the order of the carriage of DOB by air. An additional benefit, as providing accurated data in the overall regulatory scheme in Amers. 18 to including the proper positioning prof. DOB is approximated and an advantage of the provided of the order of the provided and are such as the provided and are such as the provided and are such as the provided and areas of the provided as the provided and areas of the provided and areas of the provided areas of the provided and areas of the provided areas of the provided and areas of the provided areas of the provided and areas of the provided areas of the provided and areas of the provided areas of t							
Reference	Annex 8 Doc 9760 - Ainworthiness Manual, Annex 18, Doc 9284 - Technical Instructions For The Safe Trans	port of DG by Air F	AR/CS 25 795 and Attachments					

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AIRP Job Cards with DGP in a supporting role

Carriage of active battery powered devices inside aircraft cargo compartment.

Control of electromagnetic radiation risks posed by the carriage of battery-powered devices in baggage, cargo and mail that are active when inside the aircraft cargo compartment

- The carriage and use of portable electronic devices (PED) already addressed by - (Cir. 340, AN/198).
- Significant increase on the use of PED
- Sources of potential EMI with aircraft systems.
- Recognizing the EMI risk posed to aircraft systems during operations and in particular during critical phases of flight, the AIRP was tasked via the job card AIRP 012.01.

Job-card AIRP.012.01

			netic radiation risks posed by the carriage of battery-powered devices in baggage, cargo e when inside the aircraft cargo compartment	Reference:	AIRP.012.01						
Source Secretariat, DGP 25			ANC 201/5								
Problem Statement		Many items carried in aircraft cargo compartments, including unit load devices, cargo, mail and passenger baggage now contain, or are fitted with battery-powered devices that are operational lactive) throughout the transport chain, including within inside the aircraft during flight. These devices, when active, emit electromagnetic radiation that could have the potential to lateful the aircraft systems thereby compromising fight salety.									
Specific Details (including impact statements) Expected Benefit Reference Documents		Battery powered devices are increasingly being used by consignosor of ar cago for use in items such as backing devices and temperature data loggers which are placed in the aircraft argan and with remain and/the increasing the interpretation of the production of the control of the production of the production of the control of the production of the prod									
Group	y Expert	AIRP									
WPE No.	Doc	ument affected	Description of Amendment proposal or Action	Supporting Expert Group	Expert Group	Effective	S: Applicability				
	Action Annex 6 and/or 8 Associated Manual/Doc/Circular		Determine the need for Standards / Guidance to control the risk of transporting battery- powered devices in baggage, cargo and mail that are active when inside the aircraft cargo compartment.		Q2/2017						
			Develop provisions if required to control the risk of transporting battery-powered devices in baggage, cargo and mail that are active when inside the aircraft cargo compartment	DGP FLTOPSP, SMP	Q4/2017	2019	2020				
			Develop guidance material if required to control the risk of transporting battery-powered devices in baggage, cargo and mail that are active when inside the aircraft cargo compartment.	DGP, FLTOPSP, SMP	Q4/2017	2019					
Initial Issue Date:			Date approved by ANC:	Session/Meetin	g.						





The DGP/25 is invited to:

Take note of the Updates from the Airworthiness Panel work Programme.

continue to collaborate with the AIRP as necessary.



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