

FAA TSO Workshop 2023

Day 2 – General Session

20th September 2023

GRAND HYATT DENVER
1750 Welton Street,
Denver, CO 80202, USA

Your safety is our mission.

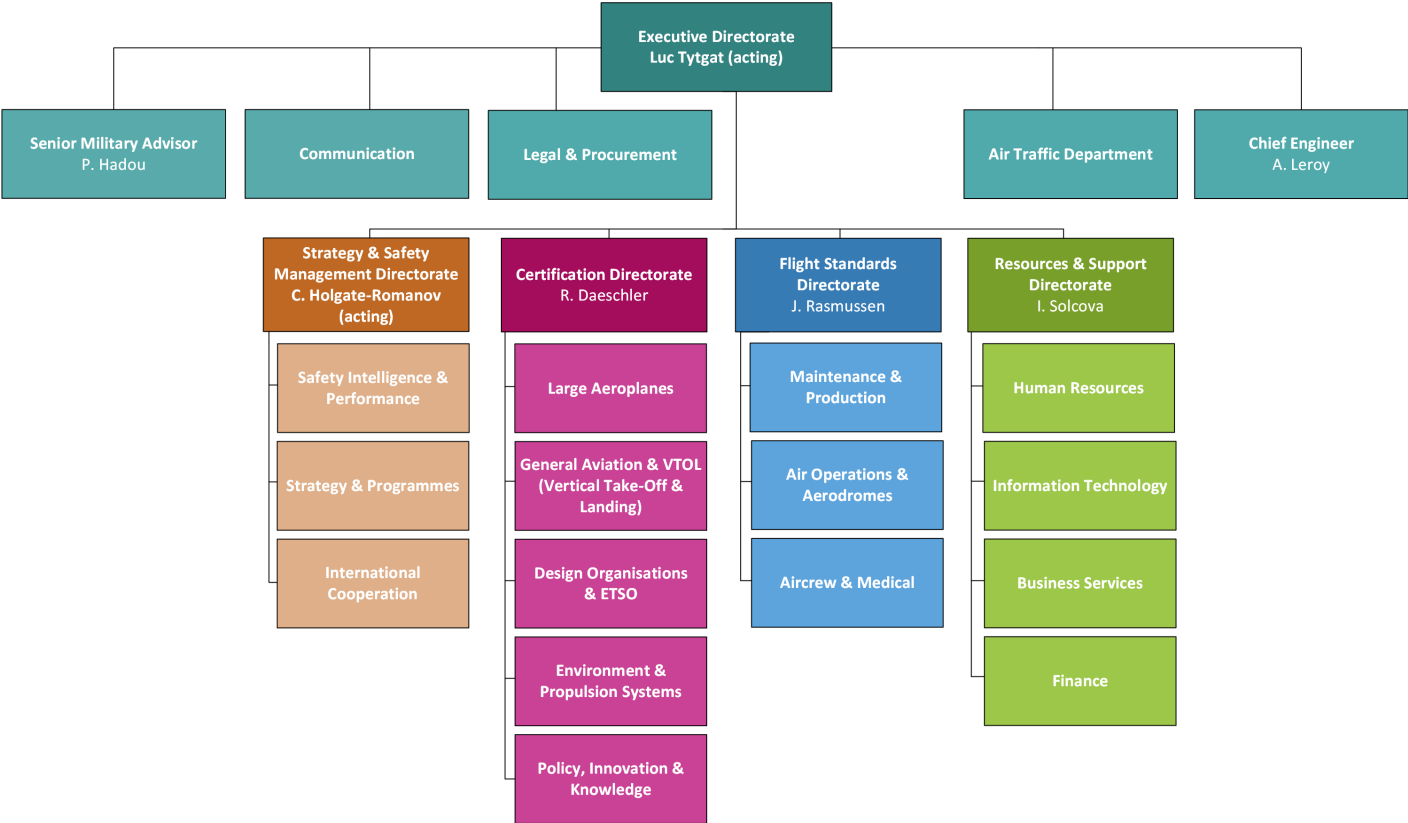
EASA UPDATE

Francesco Maria CARIDEI, Section Manager ETSO

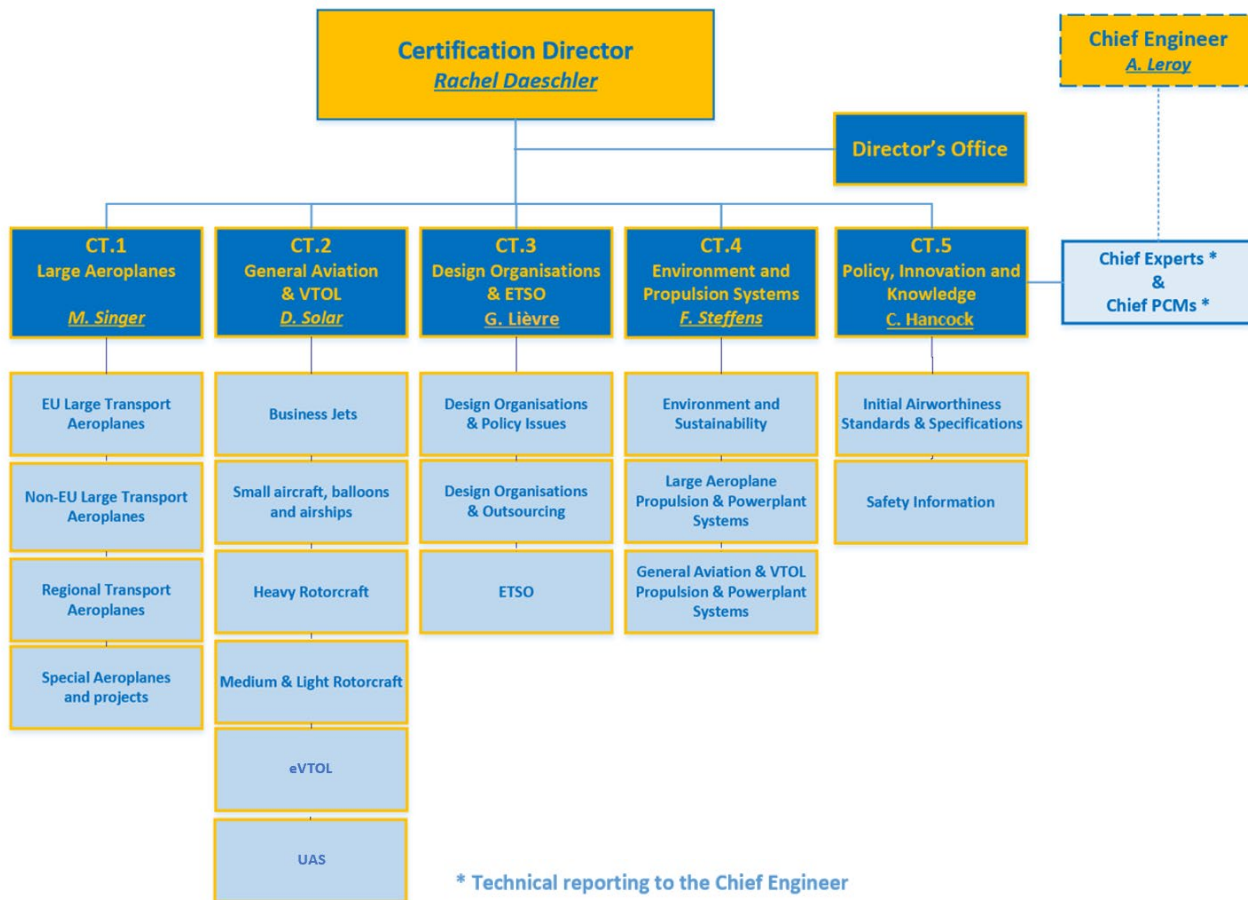
Pasquale CONTE, Senior PCM ETSO

Organigrams

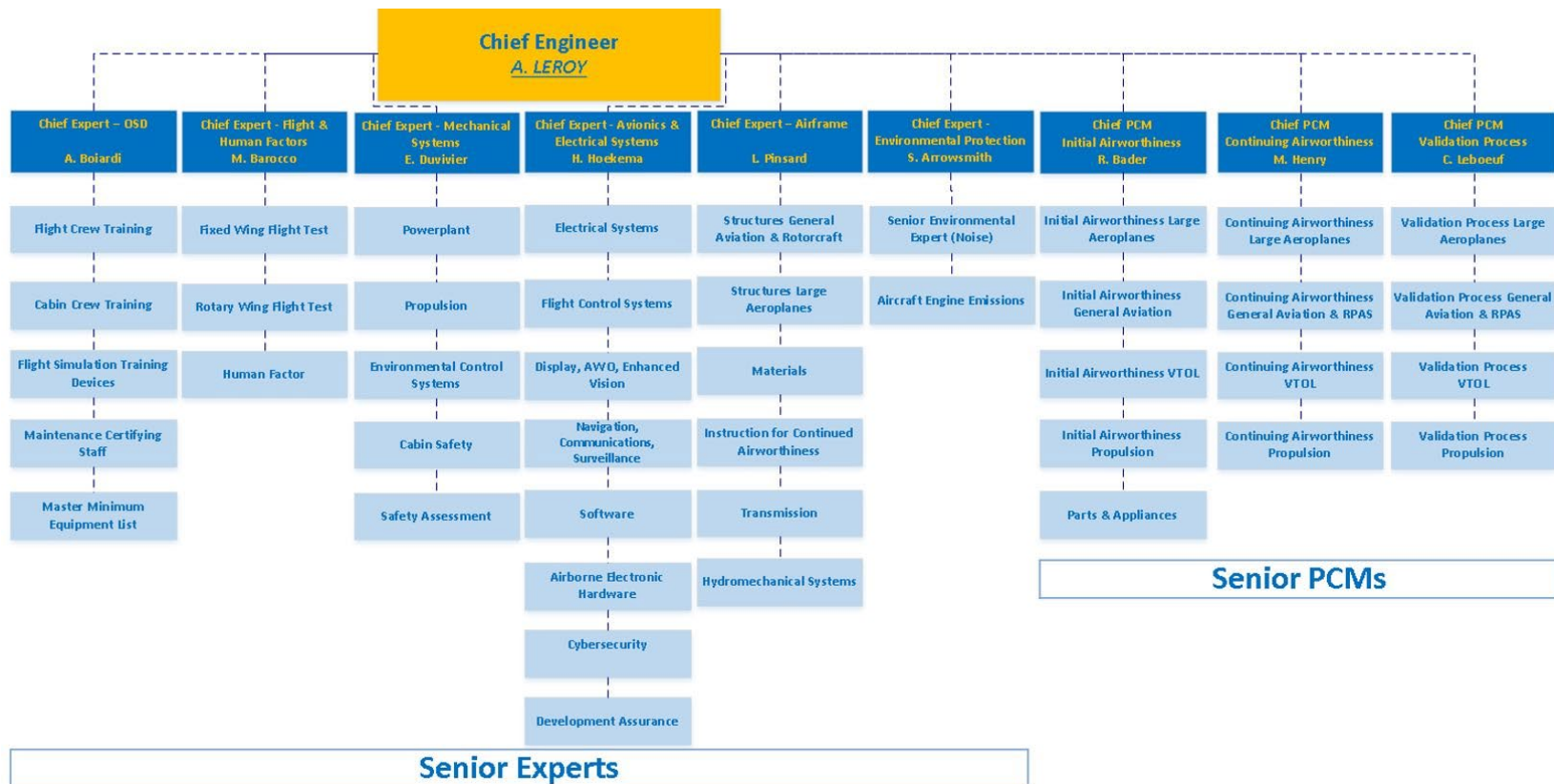
EASA UPDATE



Directorate structure



Directorate structure



Rulemaking update

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CS-ETSO Amendment 18

New ETSO

ETSO-C219a Airborne Collision Avoidance System (ACAS) Xa/Xo

- First issue at revision “a” to keep aligned with FAA TSO counterpart
- NPA 2023-04 “Introduction of ACAS Xa for operations in the single European sky (SES) airspace & PBN specifications for oceanic operations”
 - Published and comments period closed on 06/09
 - ED decision expected in 2024

NPA 2023-04 - Introduction of ACAS Xa for operations in the single European sky (SES) airspace & PBN specifications for oceanic operations | EASA (europa.eu)



CS-ETSO Amendment 19

ETSO	Title	Reason
Subpart A	§ 2.4 Failure Conditions Classification and Development Assurance	Clarification
C90e	Cargo Pallets, Nets and Containers (Unit Load Devices)	Align with FAA
C112f	Secondary Surveillance Radar Mode S Transponder	Align with FAA
C132b	Minimum Operational Performance Standards for Geosynchronous Orbit Aeronautical Mobile Satellite Services (AMSS) Avionics (receiver)	Align with FAA
C159e	Next Generation Satellite Systems (NGSS) Equipment	Align with FAA
C164a	Night Vision Goggles	Align with FAA
C166c	Extended Squitter Automatic Dependent Surveillance-Broadcast (ADS-B) and Traffic Information Service-Broadcast (TIS-B) Equipment Operating on the Radio Frequency of 1090 Megahertz (MHz)	Align with FAA
2C169b	VHF Radio Communications Transceiver Equipment Operating Within The Radio Frequency Range 117.975 To 137.000 Megahertz	Antennas and HMI
2C502a	IIS - Integrated Immersion Suit	Updated MOPS
2C503a	IS - Immersion Suit	Updated MOPS
2C504a	Life Jacket	Updated MOPS
2C519a	Emergency Breathing Systems EBS	Updated MOPS
2C521 A1	Electronic Flight Bag (EFB)	Clarification

CS-ETSO Amendment 19

- The contents of the next update to CS-ETSO has been established;
- Next NPA is planned Q1-2024
- CS-ETSO Amdt 19 Decision target Q2/Q3-2024



Part 21 and AMC/GM Changes

- Regular update to the AMC and GM to Part 21 is under preparation (internal consultation stage);
- NPA is expected Q4 2023;
- Includes some updates to AMC&GM to Subparts O and Q
- Non-ETSO functions, Incomplete ETSO, Electronic Marking
- Updated template for Declarations of Design and Performance (DDPs).



NIE (Non Installed Equipment)

Evolution of ETSO-Authorisation system

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Basic Regulation (EU) 2018/1139, Parts&NIE

→ Part

- Art 3 (4): 'part' means any element of a product, as defined by that product's type design.
- Art. 12 possibility for the separate certification of parts; but parts can also be certified as part of the certification of the product

→ Non-installed equipment

- Art 3 (29): 'non-installed equipment' means any [...] equipment [...] carried on board of an aircraft by the operator, which is not a part, and which is used or intended to be used in operating or controlling an aircraft, supports the occupants' survivability, or which could impact the safe operation of the aircraft.
- Art 13 possibility for the certification of the design of NIE

NIE (Legal issue)

- Objective is to resolve legal issue
 - NIE concept introduced through EASA Basic Regulation (Regulation (EU) 2018/1139)
 - Not yet implemented in IAW and CAW regulations
- ETSO process is not applicable to NIE (only applicable to Parts)
 - Minimum changes to Part 21 (e.g. Subpart K) to make it applicable
 - In the context of the ETSO process revision, Part21 will be accommodating other aspects of NIE implementation.
- CAW regulation currently is not applicable to NIE
 - Required changes to Regulation 1321/2014.

Evolution of ETSOA process (“Proportionality”)

- There is currently limited proportionality in the ETSO process;
- Organisational requirements are the same for most articles (except APUs).

APU ETSO



Design Organisation
Approval Required



Production Organisation
Approval Required

All other ETSO articles



Alternative procedures to a Design
Organisation Approval



Production Organisation
Approval Required

Criteria for allocating articles to a process

ETSOA remains optional

(Required NIE would be specified in the Regulation)

- Technically complex
- Above 'Major' criticality
- Increased installation credit
- ETSO standard or other standard exists

- Up to 'Major' criticality
- Installation credit
- ETSO standard or other standard exists

- Minor criticality only
- May be required by Air Ops regulation but no approval required
- ETSO standard or other standard exists

Increased oversight proportionate to increased risk

2018/1139

Equipment Certificate

Design and Production
Capability Demonstration

Equipment examples

Advanced ETSO

ETSOA

DOA + POA

IMA, FMS, Seat

ETSO

ETSOA

ADOA + POA***

Display, ULD*

Declarations

Declaration of
design compliance**

Declaration(s) of capability

PLB*

*EASA may require an article to be approved iaw another process based on complexity, non-ETSO functions, ...

** Declaration issued by the organisation, under its sole responsibility, to state that the design of the Part / NIE complies with applicable requirements

*** Could require a full POA or possibly a declared PO

Discussions with stakeholders

→ NAAs (P&CA TeB)

- Essential that only approved maintenance organizations keep on repairing critical equipment (e.g. emergency parachutes);
 - amendment of Regulation 1321/2014 (CAW) necessary.

→ ETSO Industry

- Different consultation options are being considered, including “direct consultation” with stakeholders (i.e. through Workshops, advisory bodies etc.) in order to progressively evolve the process.
 - A schedule for the related rulemaking task still need to be defined

→ CMT Authorities

- TSO harmonisation coordination group meeting regularly.

Next Steps

- Initiate rulemaking on NIE (NPA in 2024)
- Further develop the various options for the ETSO concept
- Continue to engage with affected stakeholders

End Slide

Questions?

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