**ASD Proposals for Introduction in the**

**European Plan for Aviation Safety 2020-2024**

Introduction

This document aims at providing inputs to the EASA very upstream in the definition process of the EPAS 2020-2024.

These inputs are categorized into the 4 main EPAS streams: Safety, Environment, Efficiency/Proportionality, Level Playing Field and list all the actions that should be included in the next EPAS revision.

The suggested actions are in the domains of Rulemaking, Safety Promotion or Research.

Proposals

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title : Powertrain Certification Specifications, e.g. Hybrid & Electrical** | | | | | | | | |
| **New task? Yes** | | | | **Existing Task No.: N/A** | | | | |
| **Issue/Rationale: New hybrid and electrical powertrains need for the update of the current Certification Specifications, to ensure the proper aeronautical safety level demonstration of these new propulsion architectures.** | | | | | | | | |
| **What we want to achieve: To update existing Certification Specifications (CS-25, CS-27, CS-29, CS-E, …) to support future hybrid & electrical powertrain systems.** | | | | | | | | |
| **Precise Change Proposed to EPAS:**  **New electrical components in relation with hybrid powertrain and new powertrain architecture needed for a full electrical powertrain, will require that the current Certification Specifications (CS-25, CS-27, CS-29, CS-E, …) be updated and to redefine the interfaces boundaries between aircraft and powertrain, e.g. energy resources, controls, …**  **A new rulemaking task is proposed for integration of the hybrid & electrical powertrain system into the current Certification Specification, ensuring the same safety level than with the current turbomachine propulsion systems.**  **Owner Affected stakeholders**  **EASA ? DAHs**  **PIA Proc 3rdC ToR NPA Opinion Commission IR Decision**  **? ? ? 2020 Q1 2020 Q3 n/a n/a 2021 Q1** | | | | | | | | |
| **Category (X)**  *(Cross all that apply and highlight one that should appear in EPAS*) | **Safety** | | **Environment** | | **Efficiency** | | **Level Playing Field** | |
| Rulemaking | **X** | |  | |  | | **X** | |
| Safety Promotion |  | |  | |  | |  | |
| Research |  | |  | |  | |  | |
| **Relevant SAB subcommittees (X)** *(Cross all that apply)* | CAS.COM  **X** | | GA.COM | | R.COM  **X** | | C.COM | |
| FS.TEC | DM.TEC  **X** | | EM.TEC | | ADR.TEC | | ATM/ANS.TEC | |
| **Relevant ASD working groups (X)** *(Cross all that apply)* | DOA-WG | POA-WG | | MRO-WG | | PWG  **X** | | Other (please specify) |