

International Coordinating Council of Aerospace industries Associations (ICCAIA) Cargo Compartment Halon Replacement Advisory Group (CCHRAG) Update

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The Cargo Compartment Halon Replacement Advisory Group (CCHRAG) is committed to continuously supporting the ICAO 2024 deadline for halon replacement in cargo compartment fire suppression for new type certification aircraft applications submitted after 28 November 2024.

In the 2018 – 2019 timeframe, the group had performed a technical assessment of potential technologies in order to determine if a conceptually validated halon-free fire suppression system would be available in time to meet that deadline. The result of the assessment was published for the 40th ICAO General Assembly as Information Paper, ref. A40-WP/93.

For the 41st Assembly, the CCHRAG has performed an update of the technical assessment including reflections on actual regulatory issues and schedule considerations.

As a result of the recent assessment, the CCHRAG concludes that

- there are solutions available in the industry which are beyond TRL4 and have robust plannings for subsequent TRLs in place
- there are risks to be anticipated correlated to world-wide regulatory aspects, especially the upcoming PFAS regulation
- there are remaining development risks to be mitigated, but no showstoppers are identified to date
- weight increase for any Halon replacement system is imminent and will lead to increased fuel burn and correlated CO2 increase

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