

# Welcome to the EASA Fuel Webinar

## *September 2022*

**Regulation (EU) 2021/1296 and ED Decision 2022/005/R**

Air Operations – Flight Standard directorate.  
Safety promotion – Strategy & Safety managements directorate.  
EASA Project management Fuel Regulatory framework

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# Agenda

- 13:00 – 13:15 – **Welcome: John Franklin & Francesco Gaetani (EASA).**
- 13:15 – 13:35 – **Fuel schemes (Flight planning and Aerodrome selection)**
- 13:35 – 13:50 – **Rules Q&A: Led by EASA.**
- 13:50 – 14:00 – Break
- 14:00 – 14:15 – **Implementation plan (AESA Spain).**
- 14:15 – 14:30 – **Implementation Plan. OCC training of personnel (TuiFly)**
- 14:30 – 14:45 – **Flight planning system – implementation plan (NAVBLUE).**
- 14:45 – 15:00 – Break
- 15:00 – 16:00 – **Panel discussion – Experts from the industry.**
- 16:00 – 16:05 – **Safety Promotion Developments and Webinar Closing.**

# Welcome by Chair of the Rulemaking group RMT.0573 Fuel. *Sept 2022*

**Regulation (EU) 2021/1296 and ED Decision 2022/005/R**

**Francesco Gaetani**

Head of department Aircrew & Medical.  
Air Operations – Flight Standard directorate.

EASA Webinar on Fuel Management Rules  
September 21<sup>th</sup>, 2022

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# Safety promotion

## *September 2022*

**Regulation (EU) 2021/1296 and ED Decision 2022/005/R**

**Francisco ARENAS ALVARINO**

EASA Project manager Fuel Regulatory framework  
Senior OPS Expert and Air CREW expert  
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EASA Webinar on Fuel Management Rules  
July 7<sup>th</sup>, 2022

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# Implementation support

- The New Fuel rules are available in the easy access rules
  - May 2022 Revision 18
  - See more in <https://www.easa.europa.eu/document-library/easy-access-rules/easy-access-rules-air-operations-regulation-eu-no-9652012>
- AWO rules - Regulation (EU) 2021/2237 available as well in Rev 18.
- AWO AMC&GM NOT available until Nov 2022.
- 3<sup>rd</sup> Webinar on AWO 20 October 2022.
- 3<sup>rd</sup> Webinar on Fuel Schemes 26 October 2022.

# Fuel planning and Aerodrome selection policies

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**Francisco ARENAS ALVARINO**

EASA Project manager Fuel Regulatory framework  
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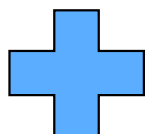
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# New fuel rules for CAT

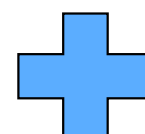
## Fuel scheme

Approved by Authority

Fuel planning / in-flight replanning policy



Selection of aerodromes & planning policy



In-flight fuel management policy

Safety objective in the IR



Means to comply in the AMC



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Performance-based regulation



# Fuel rules for CAT – example on Cont Fuel

## CAT.OP.MPA.18X series

### Basic fuel scheme

Prescriptive: 5% contingency fuel

- No special requirements for the authority
- No special requirements for the operator
- Current situation for most operators

### Basic fuel scheme with variations

Variations to basic fuel scheme: 3% contingency fuel

- No special requirements for the authority
- Some requirements for the operator (e.g. ERA, fuel consumption monitoring program required)
- EASA can create new variations in the future

### Individual fuel scheme

Can be reduced based on criteria

- Baseline performance (2 years of data on agreed SPIs)
- Safety risk ass. (= or > LoS)
- Continuous reporting with CA
- Available infrastructure in the area of operation
- Organisational control (processes + resources)
- Operational capabilities



# Flight planning and in-flight replanning

- CAT.OP.MPA.181 for CAT Aeroplanes.
- CAT.OP.MPA.191 for CAT Helicopters.
- Transposed from the old CAT.OP.MPA.150
  - Performance-based rules
  - Except for Final Reserve Fuel (RFR) (30 and 45 minutes) and
  - Except for additional fuel in a no destination alternate scenario (15 minutes)
- Some additional changes:
  - Promotion of Fuel consumpt. monitoring prog. instead of Manufacturer's data.
  - Additional operating conditions to take into account in point (b) CAT.OP.MPA.181

# Additional operating conditions

The operator shall ensure that the planning of flights includes the operating conditions under which the flight is to be conducted; the operating conditions shall include at least:

- OLD CAT.OP.MPA.150 point (b)(2)
- (i) aircraft fuel consumption data;
- (ii) anticipated masses;
- (iii) expected meteorological conditions; and
- (iv) air navigation services provider(s) procedures and restrictions.

CAT.OP.MPA.181 point (b)

- (1) aircraft fuel/energy consumption data;
- (2) anticipated masses;
- (3) anticipated meteorological conditions;
- (4) the effects of deferred maintenance items and/or of configuration deviations;
- (5) the expected departure and arrival routing and runways; and
- (6) anticipated delays.

# BASIC FUEL SCHEMES

- Performance class A – AMC1 CAT.OP.MPA.181
  - Transposed from AMC1 CAT.OP.MPA.150 (5% contingency)
  - Pay attention to the difference between:
    - Extra fuel
    - Discretionary fuel
- Performance class B and C – AMC2 CAT.OP.MPA.181
  - Transposed from CAT.OP.MPA.151 Fuel policy – alleviations
- ELA 2 Aeroplanes – AMC3 CAT.OP.MPA.181
  - Transposed from CAT.OP.MPA.151 Fuel policy – alleviations

# Fuel schemes - Variations

- AMC 5 CAT.OP.MPA.181 – Statistical TAXI fuel variation.
- AMC 6 CAT.OP.MPA.181 – Contingency fuel variations
  - Transposed from existing “variations” contained in old AMC1 CAT.OP.MPA.150
  - New provision: implementation of a Fuel consump. monitoring system.
  - 3%, (no change) Location of the ERA in AMC7 CAT.OP.MPA.181
  - 20 minutes (no change) and
  - statistical fuel method (small changes. Move from GM to AMC).
    - 2 years
  - Reduce contingency fuel procedure (No change)
  - Pre-determine point – Deleted – Only available for isolated aerodrome proc.

# Fuel consumption monitoring system

- Fuel consumption monitoring system are not new. It was a feature in CAT.OP.MPA.150 point (b)(1)(ii) “current aircraft-specific data derived from a fuel consumption monitoring system;”
- The new rules provide further guidance:
  - Basic Fuel schemes: point (c) of GM1 CAT.OP.MPA.181
  - Individual fuel schemes: AMC8 CAT.OP.MPA.181
  - Further info: ICAO Doc 9976 Flight Planning and Fuel Management (FPFM) Manual, Appendix 5 to Chapter 5.

# A little about Aerodrome Selection.

- AMC1 CAT.OP.MPA.182 Take off alternate (light improvements)
- Planning minima Basic fuel schemes
  - AMC6 CAT.OP.MPA.182 – 200ft/400ft – 800m/1500m – ETOPS
- Planning minima Fuel schemes Variations
  - Requirement to have Flight monitoring or flight Watch capabilities and
  - Computerised flight planning systems.
  - AMC8 CAT.OP.MPA.182 – Similar approach to Transport Canada & FAA.
    - For short haul – less than 6 hours and multi- crew operations.
    - No LVO approval is needed.
  - AMC9 CAT.OP.MPA.182 – Similar approach to Transport Canada & FAA.
    - Higher maturity – LVO approval is required.
  - Lower planning minima is allowed.

# THANK YOU

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