



**EASA/FAA Significant Standard Differences (SSD)  
Technical Implementation Procedures (TIP)  
- CS-34 Aircraft Engine Emissions and Fuel Venting -**

TIP Rev	SSD Issue & Date	Standard Amendment Pairs	
Rev 6, Amendment 2	Issue 02 16 December 2021	<b>CS-34</b>	Amendment 3
		<b>14 CFR Part 34</b>	Amendment 6

SSD #	Title	Applicable Regulations and Specifications	Remarks
1	Aircraft Engine Emissions and Fuel Venting – Particulate matter emissions	<p><b>1.</b> Regulation on common rules in the field of civil aviation (EU) 2018/1139 CHAPTER III – SECTION I – Article 9 – Paragraph 2.</p> <p><b>2.</b> ANNEX I to Airworthiness and Environmental Certification Regulation (Part 21) Paragraph 21.B.85(c)3.</p> <p><b>3.</b> CS 34.2</p>	<p>FAA has no equivalent standard for particulate matter emissions in Part 34.</p> <p><b>1. REGULATION (EU) 2018/1139</b> <u>CHAPTER III SUBSTANTIVE REQUIREMENTS – SECTION I Airworthiness and environmental protection – Article 9 Essential requirements</u></p> <p>2. As regards noise and emissions, those aircraft and their engines, propellers, parts and non-installed equipment shall comply with the environmental protection requirements contained in Amendment 12 of Volume I, in Amendment 9 of Volume II, and in the initial issue of Volume III, all as applicable on 1 January 2018, of Annex 16 to the Chicago Convention.</p> <p><b>2. Part 21.B.85</b> (c) The Agency shall designate and notify to the applicant referred to in point (a) the applicable smoke, gaseous and particulate matter engine emission requirements established in Annex 16 to the Chicago Convention, Volume II, Part III, Chapter 1 and</p> <p>...</p> <p>3. for particulate matter emissions of turbojet and turbofan engines intended for propulsion only at subsonic speeds, in Chapter 4.</p> <p><b>3. CS 34.2</b> The aircraft engine must be designed to comply with the applicable emission requirements defined under 21.B.85(c). <i>See also Appendix for AMC 34.2 and GM 34.2.</i></p> <p><b>[SEI]</b></p>

Notes:

**[SEI]** : This SSD is identified as a Safety Emphasis Item (SEI).

## **Appendix**

### **Guidance for EASA/FAA SSD**

*CS-34 Amendment 3 vs. 14 CFR Part 34 Amendment 6*

## **SSD #1 Aircraft Engine Emissions and Fuel Venting – Particulate matter emissions**

### AMC 34.2

The acceptable means of compliance for aircraft engine emissions are presented in:

...

(g) for compliance procedure for particulate matter emissions, Appendix 7 to ICAO Annex 16, Volume II.

### GM 34.2

Guidance material for the application of the certification specifications for aircraft engine emissions is presented in ICAO Doc 9501 'Environmental Technical Manual', Volume II 'Procedures for the Emissions Certification of Aircraft Engines', Third Edition, 2018, except for the exemption process from the NOx emissions production cut-off requirements.