

SMS for Design and Manufacturing Organizations

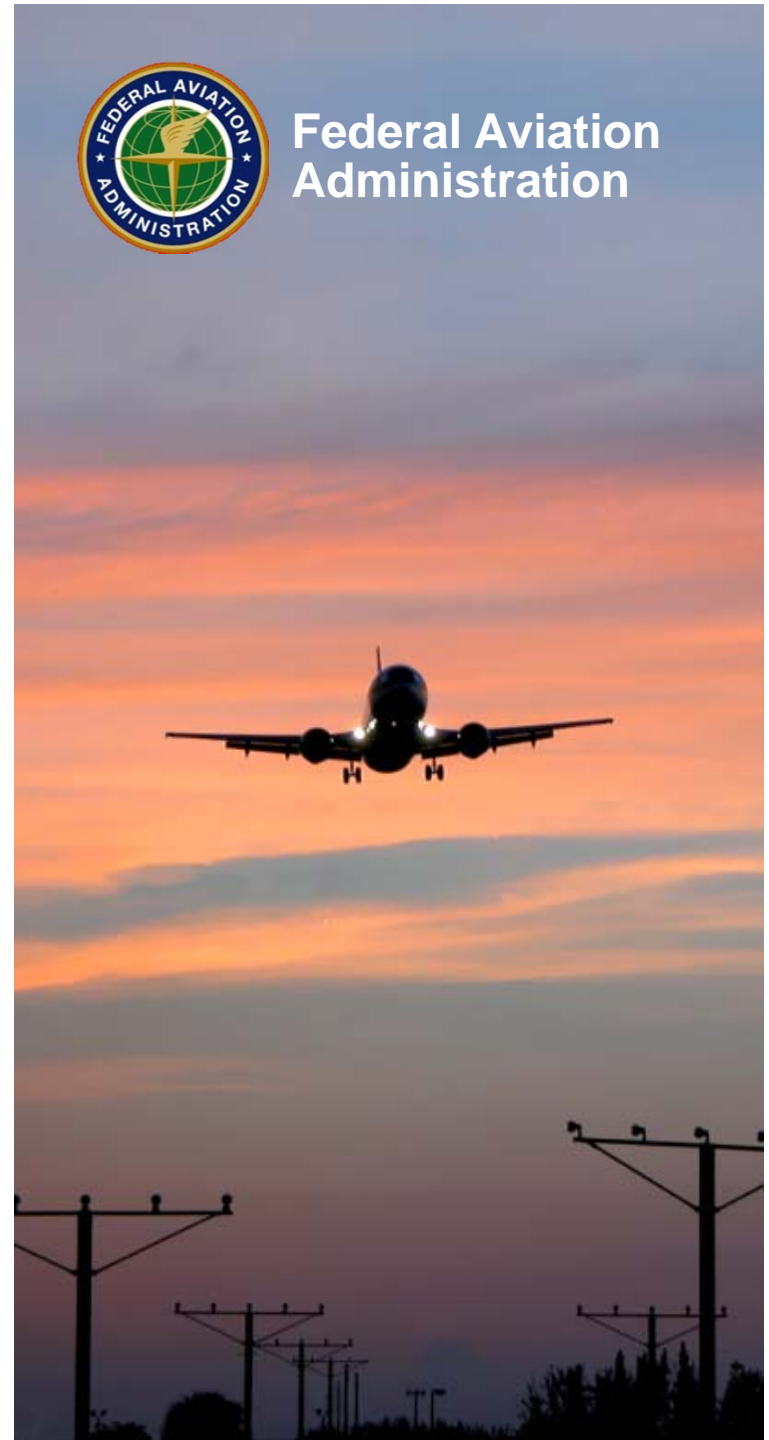
Presented to: Global Mfg Meeting

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Agenda

- **SMS Background**
- **Why is SMS Necessary**
- **Voluntary SMS Program Overview**
- **Part 21 Rulemaking Overview**



SMS Background

MSMS Pilot Project

- 2010-2012
- 12 Participants
- Data Gathering
- Final Report supplements ARC

Part 21/SMS ARC

- 2012-2014
- FAA and Industry
- SMS Working Group
- Recommend proceed with SMS Rulemaking

Voluntary SMS Program

- 2016-2021 (approximately)
- Industry Requested and AIR Endorsed
- Provides FAA Recognition
- Increase SMS Knowledgebase across Sections

Part 21 Rulemaking

- Rulemaking activity in work
- Includes regulatory SMS framework
- Expected timeframe 2021 for published rule



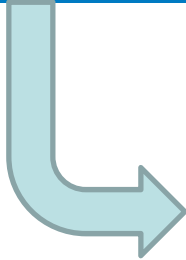
Why is SMS necessary?

- **International Civil Aviation Organization (ICAO) Annex 19 Requirement**
 - Prescribes that each State shall require organizations under its authority responsible for the type design or manufacture of aircraft, engines, and propellers to implement an SMS in accordance with Annex 8.





ICAO Annex 19



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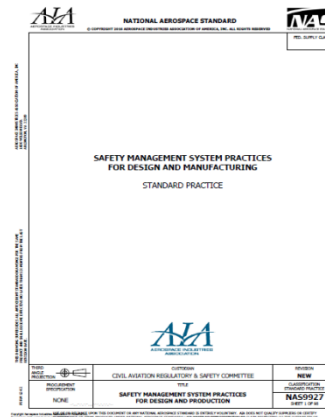
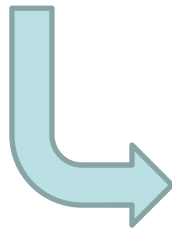
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Part VI

Department of Transportation

Federal Aviation Administration
14 CFR Parts 5 and 119
Safety Management Systems for Domestic, Flag, and Supplemental
Operations Certificate Holders; Final Rule

14 CFR Part 5



National Aerospace Standard 9927



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Voluntary SMS Program

- The Voluntary SMS Program allows the Aircraft Certification Service to review and accept Voluntary SMS proposals submitted by design and/or production approval holders.
- We will use standardized criteria to determine if the requestors SMS meets the intent of the requirements in 14 CFR Part 5, Safety Management.
- To facilitate this, we have recognized National Aerospace Standard 9927 as an acceptable means of SMS implementation



Program Applicability

- Applicability will prioritize those mandated by ICAO:
 - Active TC/PC holders
 - STC, PMA and TSOA based on resource availability
- Applicability is directly in line with the Part 21 Rulemaking activity



Part 21 Rulemaking Project



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Part 21 Rulemaking Activity

- **Part 5, Safety Management Systems**
 - Part 5 will be expanded to include design and manufacturing organizations.
 - The FAA has determined that SMS will be mandatory for Standard Category products (21.21 and 21.29 Production), and voluntary for all other products and articles.



Mandatory SMS Implementation

- **SMS will be required 36 months after publication of the final rule.**
 - Current holders of a 21.21 or 21.29 design approval (Type Certificate) or manufacturing approval (Production Certificate) will have 36 months to develop an SMS which meets part 5.
 - Applicants who apply for a 21.21 design approval during the 36 month period must develop their SMS in conjunction with their design approval.
 - Applicants who apply for a Production Certificate for a 21.21 or 21.29 Type Certificate during the 36 month period must develop their SMS in conjunction with their PC.
 - Applications received after the 36 month period are expected to include an SMS.



Reorganize Subparts G, K, & O: Considerations

- **Rename subpart G “Production Approvals”.**
- **Move production references out of subparts K&O to subpart G.**
- **Reformat subpart G to cover the scope of all types of production approvals to include Production Certificates, TSOs, and PMAs.**
- **Streamline the certification process.**



Questions?



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