



Federal Aviation  
Administration

# Part 21

## Final Rule Briefing for FAA Personnel

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# Topics Covered in This Briefing

- **Discussion of the Rule**
- **Section-by-Section Review of the Rule Changes**
- **Implementation Plan**
- **Orders and Advisory Circulars Affected by the Rule**
- **Additional Information**





# Discussion of the Rule





# Global Changes

- Removed “Administrator” and replaced with “FAA”
- Removed “shall” and replaced with “must”
- Removed “type certificate only” and replaced with “type certificate”





# Title Changes

- Part 21 – Certification Procedures for Products, Articles, and Parts
- Subpart K – Parts Manufacturer Approvals
- Subpart O – Technical Standard Order Approvals
- Part 45 Subpart B – Marking of Products and Articles





# Subparts A - E

- § 21.1(b) - Definitions
  - Airworthiness Approval
  - Article
  - Commercial part
  - Design Approval
  - Product
  - Production Approval
  - State of Design
  - State of Manufacture





# Subparts A - E

- 21.3 – Reporting of failures, malfunctions, and defects
- 21.8 – Approval of articles
- 21.9 – Relocates and combines former 21.303(a) & (b)
- 21.20 – Applicant's certifying statement
- 21.47 – TC transfer changes
- 21.50 – Instructions for continued airworthiness
- 21.97 – Approval of major changes in type design





# Subparts F, G, K, & O

Organization	Issuance
Quality system	Duration
Quality system documentation	Transferability
Location of manufacturing facilities	Responsibility of the holder
Inspecting and testing	Changes to the quality system



# Subparts F, G, K, & O

- Organization
  - Assigned responsibilities
  - Delegated authority
  - Functional relationship of quality to management



# Subparts F, G, K, & O

- Quality System
  - Design data control
  - Document control
  - Supplier control
  - Manufacturing process control
  - Inspecting and testing
  - Inspection, measuring, & test equipment control
  - Inspection & test status





# Subparts F, G, K, & O

- Quality System Continued
  - Nonconforming product & article control
  - Corrective & preventive actions
  - Handling & storage
  - Control of quality records
  - Internal audits
  - In-service feedback
  - Quality escapes





# Subparts F, G, K, & O

- Quality Manual
  - Must describe the quality system
  - Must be in English
  - Must be approved by FAA
- Location of or change to manufacturing facilities
  - Prior approval by FAA for changes in location
  - Immediate notification to FAA for facility changes that may affect the inspection, conformity, or airworthiness of its products or articles





# Subparts F, G, K, & O

- Inspections and tests
  - Must provide access manufacturing facilities
  - Must provide access to supplier facilities
- Issuance
  - After FAA finds compliance to the applicable requirements
- Duration
  - Production approval is effective until surrendered, suspended, revoked, or terminated by the FAA
  - PC, PMA and TSO unique requirement (see applicable subpart)
- Transferability
  - No current provisions





# Subparts F, G, K, & O

- Responsibility of the holder
  - Amend document describing the organization
  - Maintain the quality system
  - Ensure conformity and condition for safe operation
  - Mark in accordance with Part 45
  - Identify approved parts that leave the manufacturer's facility
  - Access to necessary type design data
  - Retain documents granting the production approval
  - Make available to the FAA information regarding delegation of authority to suppliers





# Subparts F, G, K, & O

- Changes to the quality system
  - Each change is subject to review
  - Immediate notification to FAA for changes that may affect the inspection, conformity, or airworthiness of its products or articles





# Subpart L

- Global acceptance & movement of parts
  - Deleted export classes I, II, & III
  - Export C of A (8130-4) – issued for A/C only
  - ARC (Form 8130-3) – issued for engines, propellers, & articles
  - Removed restrictions on exporters of Class III products
  - Removed requirement that Class II/III products manufactured under an FAA PAH be located in the U.S.





# Subpart L

- Global acceptance & movement of parts
  - Allows for export approvals of used engines, propellers, and articles under certain conditions
  - Removes requirement that used engines & propellers be newly overhauled
  - No longer specifically addresses requirements of importing countries, but FAA is still obligated to comply if requirements are specified in:
    - Bilateral agreement, or
    - Document formally submitted to FAA for publication in AC 21-2





# Part 45

- Consolidated part marking requirements to part 45
- Clarifies conditions required for marking
- Changes to 45.11 aircraft identification plate location
- Changes to 45.15 marking requirements
  - Standardizes marking requirements for PMA articles, TSO articles, and critical parts
  - Deletes “installation eligibility” requirement for PMA articles



# **Section-by-Section Review of the Rule Changes**





# Section-by-Section Review of Rule Changes

- 21.1 – Applicability and definitions
- 21.2 – Falsification of applications, reports, or records
- 21.3 – Reporting of failures, malfunctions, & defects
- 21.5 – Airplane or Rotorcraft Flight Manual
- 21.8 – Approval of articles



# Section-by-Section Review of Rule Changes

- 21.9 - Replacement and modification articles
- 21.15 – Application for type certificate
- 21.20 – Compliance with applicable requirements
- 21.21 – Issue of type certificate: Normal, utility, acrobatic, commuter, and transport category aircraft; manned free balloons; special classes of aircraft; aircraft engines; propellers
- 21.27 – Issue of type certificate: Surplus aircraft of the Armed Forces



# Section-by-Section Review of Rule Changes

- 21.29 – Issue of type certificate: Import products
- 21.33 – Inspection and tests
- 21.45 – Privileges
- 21.47 – Transferability
- 21.50 – Instructions for continued airworthiness
- 21.53 – Statement of conformity





# Section-by-Section Review of Rule Changes

- 21.73 – Eligibility
- 21.75 – Application
- 21.97 – Approval of major changes in type design
- 21.113 – Requirement for supplemental type certificate
- 21.117 – Issuance of supplemental type certificates
- 21.119 - Privileges





# Section-by-Section Review of Rule Changes

- 21.122 – Location of or change to manufacturing facilities
- 21.123 – Production under type certificate
- 21.125 – Production inspection system: Materials Review Board
- 21.130 – Statement of conformity



# Section-by-Section Review of Rule Changes

- 21.131 – Applicability
- 21.132 – Eligibility
- 21.133 – Application
- 21.135 – Organization (21.305 & 21.605)
- 21.137 – Quality System (21.307 & 21.607)
- 21.138 – Quality Manual (21.308 & 21.608)





# Section-by-Section Review of Rule Changes

- 21.139 – Location of or change to manufacturing facilities (21.309 & 21.609)
- 21.140 – Inspections & Tests (21.310 & 21.610)
- 21.141 – Issuance (21.311 & 21.611)
- 21.142 – Production limitation record
- 21.143 – Duration
- 21.144 – Transferability (21.314 & 21.614)





# Section-by-Section Review of Rule Changes

- 21.145 – Privileges
- 21.146 – Responsibility of holder (21.316 & 21.616)
- 21.147 – Amendment of production certificates
- 21.150 – Changes to quality system (21.320 & 21.620)
- 21.183 – Issue of standard airworthiness certificates for normal, utility, acrobatic, commuter, and transport category aircraft; manned free balloons; and special classes of aircraft



# Section-by-Section Review of Rule Changes

- 21.185 – Issue of airworthiness certificates for restricted category aircraft
- 21.195 – Experimental certificates: Aircraft to be used for market surveys, sales demonstrations, and customer crew training
- 21.197 – Special flight permits
- 21.223 – Class II provisional airworthiness certificates
- 21.225 – Provisional airworthiness certificates corresponding with provisional amendments to type certificates
- 21.231 – Applicability



# Section-by-Section Review of Rule Changes

- 21.251 – Limits of applicability
- 21.253 – Type certificates: application
- 21.267 – Production certificates
- 21.271 – Airworthiness approval tags
- 21.293 – Current records
- 21.321 - Applicability



# Section-by-Section Review of Rule Changes

- 21.325 – Export airworthiness approvals
- 21.327 – Application
- 21.329 – Issuance of export certificates of airworthiness
- 21.331 – Issuance of export airworthiness approvals for aircraft engines, propellers, and articles





# Section-by-Section Review of Rule Changes

- 21.335 – Responsibilities of exporters
- 21.500 – Acceptance of aircraft engines and propellers
- 21.502 – Acceptance of articles
- 43.2 – Records of overhaul and rebuilding
- 43.3 – Persons authorized to perform maintenance, preventive maintenance, rebuilding, and alterations
- 45.1 – General definitions





# Section-by-Section Review of Rule Changes

- 45.10 – Marking
- 45.11 – Marking of products
- 45.13 – Identification Data
- 45.14 – Identification of critical components
- 45.15 – Identification requirements for PMA articles, TSO articles, and critical parts
- 45.16 – Marking of life-limited parts





# Implementation Plan



# Schedule

- Effective date of final rule:
  - 180 days after publication in the Federal Register
  
- Compliance Dates:
  - Part 1, Definitions and Abbreviations;
  - Part 21, subparts H (Airworthiness Certificates), I (Provisional Airworthiness Certificates), L (Export Airworthiness Approvals), and N (Approval of Engines, Propellers, Materials, Parts, and Appliances: Import); and
  - Part 45, §45.11 (Identification of Aircraft and Related Products), & § 45.13 (Identification data) – 180 days after publication
  
  - All other portions of the rule – 18 months after publication





# Communication

- **AIR-200 communication with the field**
  - Part 21 video
  - Briefing to field
  - Fact Sheets
  - Part 21 Website (Intranet)
  - Focal points for questions
  - Short Order for implementation, including a sample letter for field to use in notifying PAHs of the rule change
- **AIR-200 communication with industry & other authorities**
  - Part 21 Website (Internet)
  - Part 21 video
  - National briefings for industry
  - International briefings for other authorities
  - Focal points for questions





# Follow-Up

- **Communicate with the Field**
  - Telecons
  - Training
  - Policy Development
  - Other Support as Needed
- **Industry Feedback**
  - Review Industry Feedback
  - Initiate Changes as Needed
  - Continue Outreach and Education
- **Work with Other Authorities**
  - Harmonization Efforts
  - Development of New Policy





# Orders and Advisory Circulars Affected by the Rule



# ACs Scheduled to Issue With the Rule

- **AC 21-42**, Transition Document for 14 CFR Part 21
- **AC 21-43**, Production Under 14 CFR Part 21 Subparts F, G, K, and O
- **AC 21-44**, Issuance of Export Airworthiness Approvals Under 14 CFR Part 21 Subpart L
- **AC 45-2**, Identification and Registration Marking



# Orders and ACs Affected By the 180 Day Compliance Date

- **Orders**
  - **8100.8**, Designee Management Handbook
  - **8100.11**, Developing Undue Burden and No Undue Burden Decision Papers Under 14 CFR Part 21
  - **8120.2**, Production Approval & Certificate Management Procedures
  - **8130.2**, Airworthiness Certification of Aircraft and Related Products
  - **8130.21**, Procedures for Completion and Use of the Authorized Release Certificate, FAA Form 8130-3, Airworthiness Approval Tag
- **Advisory Circulars**
  - **21.2**, Export Airworthiness Approval Procedures
  - **21.19**, Installation of Used Engines in New Production Aircraft





# Orders and ACs Affected By the 18 Month Compliance Date

- **Orders**
  - **8100.7**, Aircraft Certification Systems Evaluation Program
  - **8100.8**, Designee Management Handbook
  - **8120.2**, Production Approval & Certificate Management Procedures
  - **8120.12**, PAH Use of Other-Parties to Supplement their Supplier Control Program
  - **8130.2**, Airworthiness Certification of Aircraft and Related Products
- **Advisory Circulars**
  - **21.9**, Manufacturers Reporting Failures, Malfunctions, or Defects
  - **21.24**, Extending a PC to a Facility Located in a BAA Country
  - **21.26**, Quality Control for the Manufacture of Composite Structures
  - **21.31**, Quality Control for the Manufacture of Non-Metallic Compartment Interior Components
  - **21.32**, Control of Parts Shipped Prior to TC Issuance
  - **45.3**, Installation, Removal, or Change of Identification Data & Identification Plates on Aircraft Engines





# Additional Information

- **Derivation Tables** – Where did this rule come from?
- **Distribution Tables** – Now where did that rule go?
- **Implementation Timeline** – When do we do this?

# Derivation Table for Subpart G

Final Rule	Based On		Final Rule	Based On		Final Rule	Based On
21.131 Introductory Text, (a), and (b)	21.131		21.137(g)	New Language		21.144	21.155
21.132 Introductory Text, (a), (b), and (c)	21.133(a), (a)(1), (a)(2), and (a)(3)		21.137(h)	21.143(a)(4)		21.145	21.163
21.133	21.133(b)		21.137(h)(1) and (2)	New Language		21.146 Introductory Text	21.165 Introductory Text
21.135	21.143(a)(1)		21.137(i)	New Language		21.146(a)	New Language
21.137 Introductory Text	21.139 and 21.143(a)		21.137(j), (k), (l), (m), and (n)	New Language		21.146(b) and (c)	21.165(a) & (b)
21.137(a) and (b)	21.143(a)(5)		21.138	21.143(a)		21.146(d)	New Language
21.137(c) Introductory Text	New Language		21.139(a)	21.137		21.146(e)	21.303(h)(6) and 21.613(a)(1)
21.137(c)(1)	21.143(a)(2)		21.139(b) and (c)	21.147		21.146(f)	21.161
21.137(c)(2)	New Language		21.140	21.157		21.146(g)	21.143(b)
21.137(d),(e), and (e)(1)	21.143(a) and 21.143(a)(3)		21.141	21.135		21.147	21.153
21.137(e)(2)	New Language		21.142	21.151		21.150 Introductory Text, (a), and (b)	21.147
21.137(f)	New Language		21.143	21.159			

# Derivation Table for Subpart K

Final Rule	Based On		Final Rule	Based On		Final Rule	Based On
21.301 Introductory Text, and (a)	21.301		21.309(b)	New Language		21.316(c)	21.303(k)
21.301(b)	New Language		21.309(c)	21.303(j)		21.316(d)	New Language
21.303(a)	21.303(c)		21.310	21.303(e)		21.316(e)	21.303(h)(6)
21.303(a)(5)	New Language		21.311	21.303(d) Introductory Text and (d)(1)		21.316(f)	21.161
21.303(b)	21.303(f)		21.313	21.303(i)		21.316(g)	21.143(b)
21.305	New Language		21.314	21.303(i)		21.319(a)	21.93(a)
21.307	New Language		21.316 Introductory Text	New Language		21.319(b)(1)	21.95
21.308	New Language		21.316(a)	New Language		21.319(b)(2)	New Language
21.309(a)	21.303(g)		21.316(b)	21.165(a)		21.320	21.147

# Derivation Table for Subpart L

<b>Final Rule</b>	<b>Based On</b>		<b>Final Rule</b>	<b>Based On</b>		<b>Final Rule</b>	<b>Based On</b>
21.321 Introductory Text, (a), and (b)	21.321(a), (a)(1), & (a)(2)		21.329(a)(1) and (a)(2)	21.329(a) & (b)		21.331(b)(2)	21.325(c)
21.325(a) and (b)	21.325(a)(1) and (a)(2)		21.329(b) and (b)(1)	21.329(g)		21.335 Introductory Text	21.335 Introductory Text
21.325(c)	New Language		21.329(b)(2)	21.325(c)		21.335(a)	21.335(a) & (b)
21.327	21.327(a)		21.331(a)	New Language		21.335(b)	New Language
21.329(a)	21.329 Introductory Text		21.331(b) and (b)(1)	21.331(b)		21.335(c), (d), and (e)	21.335(c), (d), and (e)

# Derivation Table for Subpart O

Final Rule	Based On	Final Rule	Based On	Final Rule	Based On
21.601(a)	21.601(a)	21.609(c)	New Language	21.616(d)	New Language
21.601(b), (b)(1), (b)(2), (b)(3), (b)(4), and (b)(5)	21.601(b), (b)(1), (b)(2), (b)(3), (b)(4), and (b)(5)	21.610	21.615	21.616(e)	21.607(c), 21.613(a)(1), and 21.613(b)
21.603(a), (a)(1), and (a)(2)	21.605(a), (a)(1), and (a)(2)	21.611	21.605(c)	21.616(f)	21.161
21.603(b)	21.605(b)	21.613(a)	21.621	21.616(g)	21.143(b)
21.603(c)	21.605(d) and (e)	21.613(b)	21.603(b)	21.618	21.609
21.605	New Language	21.614	21.621	21.619	21.611
21.607	New Language	21.616 Introductory Text	21.607 Introductory Text	21.620	21.147
21.608	21.605(a)(3)	21.616(a)	New Language	21.621(a)	21.617(a)
21.609(a)	21.601(c)	21.616(b)	21.607(b)	21.621(b)	21.617(b)
21.609	New Language	21.616(c)	21.607(a)		

# Derivation Table for Part 45

Final Rule	Based On		Final Rule	Based On		Final Rule	Based On
45.1 Introductory Text	45.1 Introductory Text		45.11(c)	45.11(b)		45.13	45.13
45.1(a), (a)(1), and (a)(2)	45.1(a)		45.11(d)	45.11(c)		45.15(a)	45.15(a)
45.1(a)(3)	New Language		45.11(e)	45.11(d)		45.15(b)	21.607(d)
45.1(b)	45.1(c)		45.11(f)	45.11(e)		45.15(c)	45.14
45.10	21.603(a)		45.11(g)	New Language		45.15(d)	45.15(b)
45.11(a) and (b)	45.11(a)		45.11(h)	New Language		45.16	45.16

# Distribution Table for Subpart G

Former Rule	Replaced By	Former Rule	Replaced By	Former Rule	Replaced By
21.131	21.131(a) and (b)	21.143(3)	21.137(d), 21.137(e)(1) And (e)(2)	21.155	21.144
21.133(a)(1) – (3)	21.132(a) – (c)	21.143(a)(4)	21.137(i)	21.157	21.140
21.133(b)	21.133	21.143(a)(5)	21.137(a) and (b)	21.159	21.139(c) and 21.143
21.135	21.141	21.143(a)(6)	Removed	21.161	21.146(f)
21.137	21.139(a)	21.143(b)	21.146(g)	21.163	21.145
21.139	21.137 Introductory Text	21.147	21.150(a) and (b)	21.165 Introductory Text	21.146 Introductory Text
21.143(a)	21.138 and 21.137(e)	21.149	Removed	21.165(a)	21.146(b)
21.143(a)(1)	21.135	21.151	21.142	21.165(b)	21.146(c)
21.143(a)(2)	21.137(c)(1)	21.153	21.147		

# Distribution Table for Subpart K

Former Rule	Replaced By		Former Rule	Replaced By		Former Rule	Replaced By
21.301	21.301(a) and (b)		21.303(c)(1) – (4)	21.303(a)(1) – (4)		21.303(g)	21.309(a)
21.303(a)	21.9(a)		21.303 Introductory Text and (d)(1)	21.311		21.303(h)(1) – (9)	Removed
21.303(b)	Removed		21.303(d)(2)	Removed		21.303(i)	21.313 and 21.314
21.303(b)(1)	21.9(a)(1) and (2)		21.303(e)	21.310 Introductory Text		21.303(j)	21.309(c)
21.303(b)(2)	21.9(a)(5)		21.303(e)(1)	21.310(a)		21.303(j)	21.309(c)
21.303(b)(3)	21.9(a)(2)		21.303(e)(2)	21.310(b)		21.303(k)	21.316(c)
21.303(b)(4)	21.9(a)(3) and 21.1(b)(7)		21.303(f)(1) – (4)	21.303(b)(1) – (4)		21.305(a) – (d)	21.7(a) – (d)

# Distribution Table for Subpart L

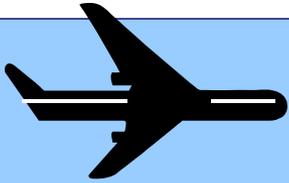
Former Rule	Replaced By		Former Rule	Replaced By		Former Rule	Replaced By
21.321(a)	21.321 Introductory Text		21.327(a) – (f)	21.327		21.333	21.331
21.321(a)(1)	21.321(a)		21.329 Introductory Text	21.329(a), 21.331(a) and (b)		21.335 Introductory Text	21.335 Introductory Text
21.321(a)(2)	21.321(b)		21.329(a)	21.329(a)(1), (a)(1)(i) and (ii)		21.335(a)	21.335(a)
21.321(b)(1) – (4)	Removed		21.329(b)	21.329(a)(2) and (a)(2)(i)		21.335(b)	21.335(a)
21.323	21.329 and 21.331		21.329(c)	Removed		21.335(c)	21.335(c)
21.325(a)(1)	21.325(a)		21.329(d)	21.331(a)(1)		21.335(d)	21.335(d)
21.325(a)(2)	21.325(b)		21.329(e)	Removed		21.335(e)(1) – (3)	21.335(e)(1) – (3)
21.325(b)(1)	Removed		21.329(f)	Removed		21.337(a) – (f)	Removed
21.325(b)(2) and (3)	21.325(c)		21.329(g)	21.329(b) and (b)(1)		21.339(a) – (f)	Removed
21.325(c)	21.329(b)(2) and 21.331(c)(2)		21.331	21.331			

# Distribution Table for Subpart O

Former Rule	Replaced By		Former Rule	Replaced By		Former Rule	Replaced By
21.601(a) – (a)(3)	21.601(a) – (a)(3)		21.605(b)	21.603(b)		21.613(a)(1)	21.616(e)
21.601(b)(1) – (5)	21.601(b)(1) – (5)		21.605(c)	21.611		21.613(a)(2)	21.137(l)
21.601(c)	21.609(a)		21.605(d)	21.603(c)		21.613(b)	21.616(e)
21.603(a)	45.10(a)		21.605(e)	21.603(c)		21.615	21.610
21.603(b)	21.613(b)		21.607 Introductory Text, (a), (b), (c), & (d)	21.616 Introductory Text, (c), (d), (e), and 45.15(b)		21.617(a)(1) and (2)	21.621(a)(1) and (2)
21.603(c)	Removed		21.609	21.618		21.617(b)	21.621(b)
21.605(a)(1) and (2)	21.603(a)(1) and (2)		21.611	21.619		21.617(c)	21.502
21.605(a)(3)	Removed		21.613(a)	21.616(e) and 21.137(l)			

# Distribution Table for Part 45

Former Rule	Replaced By		Former Rule	Replaced By		Former Rule	Replaced By
45.1 Introductory Text, (a) – (c)	45.1 Introductory Text, (a), and (b)		45.11(d)	45.11(e)		45.15(a)	Removed
45.11(a)	45.11(a) and (b)		45.11(e)	45.11(f)		45.15(b)	45.15(d)
45.11(b)	45.11(c)		45.13	45.13		45.16	45.16
45.11(c)	45.11(d)		45.14	45.15(c)			



# Part 21 Implementation



Part 1,  
Part 21,  
Subparts H,I, L & N,  
Part 45, §§ 45.11 &  
45.13

All remaining changes  
to Part 21 and Part 45

Normal Certificate management  
activity to new rule  
requirements

- Initial contact made with the PAH to explain that Part 21 has changed and they must comply with the changes
- Work with PAH to develop plan for submittal of required documents by 18mo compliance date.

- Receive Org description and Quality Manual for review
- Work with PAH if changes are needed
- When the manual meets the requirements send email stating that PAH manual will be stamped approved on 18mo compliance date unless they hear otherwise from the FAA.

- Normal certificate management applies to new rule.

Publication Date

180 day  
Compliance Date

18 month  
Compliance Date