

Introduction to Organization Designation Authorization (ODA)

Presented to: CAA - Taiwan

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Federal Aviation
Administration

Introduction Overview

- **Brief History of Delegation**
- **What is ODA?**
- **What kinds of ODA are there?**
- **How Does the FAA oversee an ODA?**



FAA's Delegation History

1920's -40's	" <u>Individual</u> " delegations established – DER, DMIR, DPE, etc.
1950's	DOA – " <u>organizational</u> " delegation for small airplanes and gliders, turbojet engine (not more than 1,000 pounds thrust), propellers, etc.
1960's	DAS - " <u>organizational</u> " delegation for repair stations
1970's	SFAR 36 - " <u>organizational</u> " delegation for operators
1980's	" <u>Individual</u> " delegation established for DARs
1990's	ODAR - " <u>organizational</u> " delegation to Production Approval Holder's (PAH) for quality systems
Today	ODA – " <u>organizational</u> " delegation for all organization types
Future	CDO – Certified Design Organizations



Definition of ODA

Authorization that allows an organization to perform specified functions on behalf of the Administrator related to engineering, manufacturing, operations, airworthiness, or maintenance (Reference: 14 CFR 183.41)

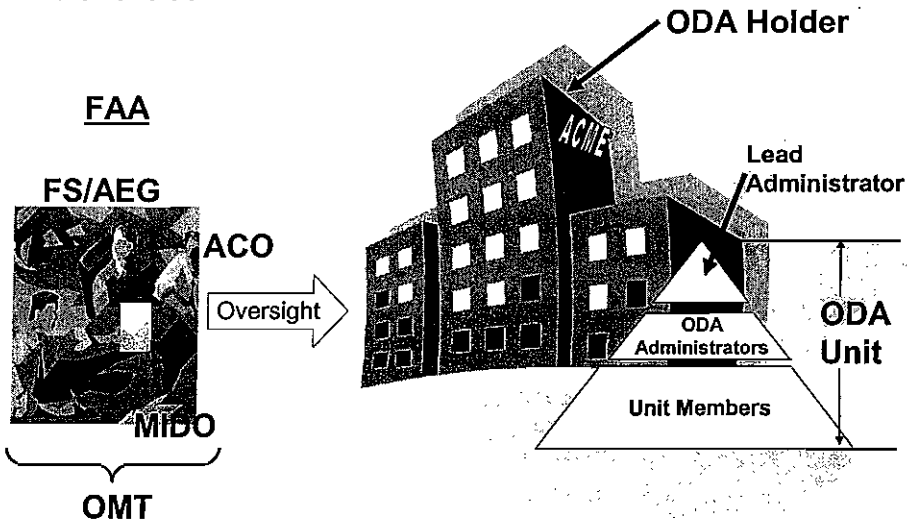
Regulation: 14 Code of Federal Regulations part 183, subpart D

Policy: FAA Order 8100.15 (available on the FAA's on-line

Regulatory and Guidance Library at <http://rgl.faa.gov/>)



Structure



What Responsibilities does an ODA Holder Have?

- KEY to the ODA system is that the ODA holder's executive management fully supports the ODA unit
- Comply with procedures manual
- Cooperation with FAA on oversight of unit and holder
- Ensure no conflicts between non-unit duties and performance of ODA authorized functions
- Notify FAA of any changes

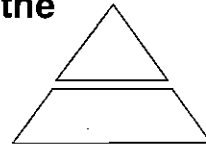


Reference: 14 CFR 183.57



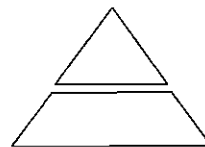
Duties of an ODA Unit

- **Must follow FAA regulations, directives, policies, guidance, and procedures**
- **Comply with the procedures in the approved procedures manual**
- **Meet the qualifications for their specific functions under the ODA**
- **Cooperate when the FAA oversees the ODA holder**



What's the criteria to be in an ODA Unit?

- **Sufficient facilities, resources and personnel to perform the authorized functions**
- **Sufficient experience with FAA requirements, processes and procedures to perform the authorized functions**
- **Sufficient, relevant experience to perform the authorized functions**



Reference: 14 CFR 183.47



Types of ODAs

- **TC – Type Certificate**
- **PC – Production Certificate**
- **TSOA – TSO Authorization**
- **STC – Supplemental Type Certificate**
- **MRA – Major Repairs and Alterations**
- **PMA – Parts Manufacturer Approvals**



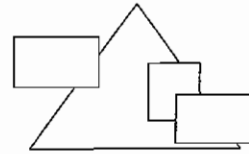
Authorized Functions

- **Consistent with ODA Holder's qualifications**
- **ODA unit may perform only those functions, listed in the ODA Holder's procedures manual**

Reference: 14 CFR 183.49



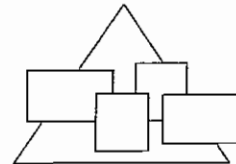
Engineering Functions



- **Find Compliance**
 - Approve technical data
 - New certificate
 - Major repairs/Major alterations
 - Perform compliance inspections
 - Establish conformity requirements
- **Issue Approvals**
 - STCs and amendments
 - Operational and Repair information
 - Airworthiness Limitations



Manufacturing Functions

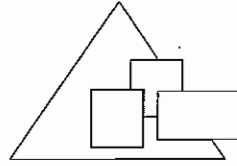


- **Issue Approvals**
 - PMA Supplements
- **Determine Conformity**
 - Define requirements for conformity
 - Determine requirements met
- **Quality Processes**
 - Evaluate changes to production limitations record
 - Approve minor changes to QC manual
- **Airworthiness**
 - Issue Certificates



Maintenance Functions

- **Inspection Processes**
 - Perform aging aircraft inspections
- **Airworthiness**
 - Issue Certificates



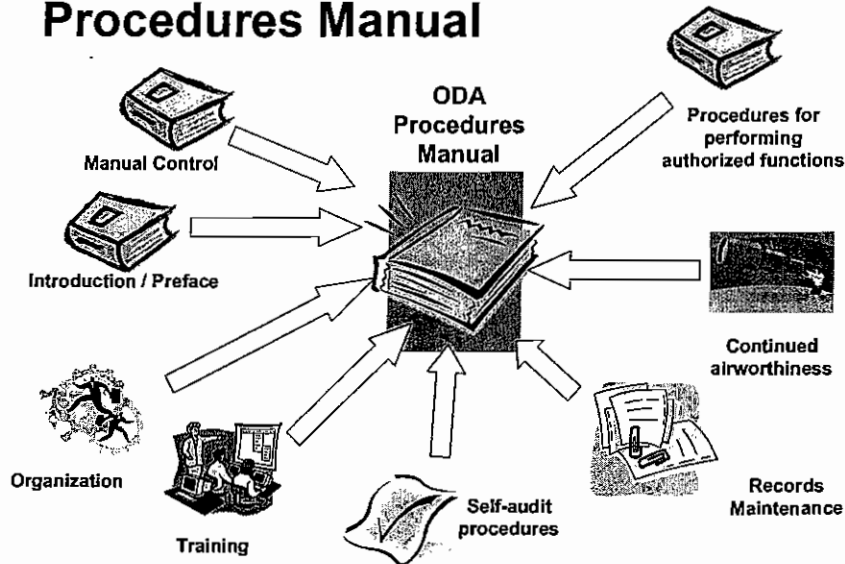
Functions Retained by FAA

Inherent Governmental activities, like:

- **Issue a TC, amended TC, PC, TSOA, or PMA** AD
- **Determine certification basis**
- **Oversee certificate holders or FAA designees**
- **Approve quality systems and procedures manuals.**
- **Rulemaking activity**



Procedures Manual



Reference: 14 CFR 183.53



Organization Management Team (OMT)

Comprised of personnel from the FAA ACO, MIDO, and Flight Standards who guide, direct, and give performance feedback to the organization

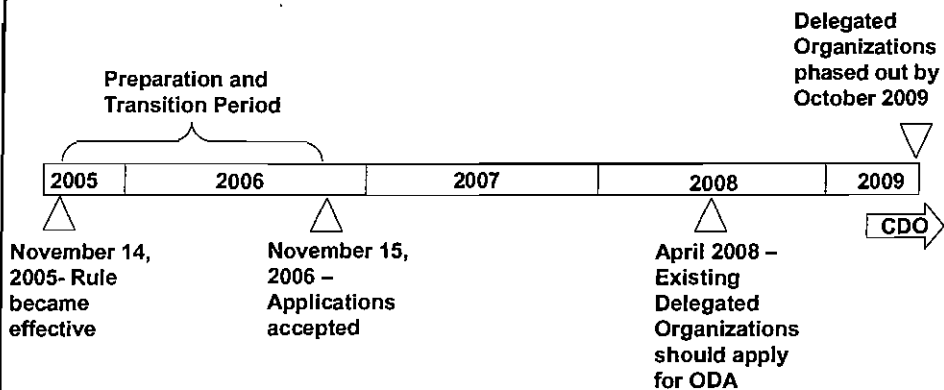


What does an OMT Do?

- Defines the authority and limitations of the organization
- Approves the organization's procedures and revisions
- Assesses the performance and the processes of the organization
- Reviews ODA Holder's self-audits



Schedule



TC ODA Available Functions

TC ODA Unit Authorization Model		
Engineering (ACO)	Inspection - Manufacturing (MIDO)	Inspection - Airworthiness (MIDO)
APPROVE TECHNICAL DATA AND FIND COMPLIANCE TO THE AIRWORTHINESS STANDARDS	DETERMINE CONFORMITY OF PARTS & TEST ARTICLES	ISSUE SPECIAL AIRWORTHINESS CERTIFICATES
APPROVE OPERATIONAL AND REPAIR INFORMATION	DETERMINE CONFORMITY OF TEST SETUP	ISSUE SPECIAL FLIGHT PERMITS
APPROVE AIRWORTHINESS LIMITATIONS INFORMATION	DETERMINE CONFORMITY FOR INSTALLATION AND TIA INSPECTIONS ON AIRCRAFT	
ESTABLISH CONFORMITY REQUIREMENTS		
APPROVE DATA FOR MAJOR ALTERATIONS AND/OR MAJOR REPAIRS		
PERFORM COMPLIANCE INSPECTIONS		

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April 2007



Federal Aviation
Administration

PC ODA Available Functions

PC ODA Unit Authorization Model		
Engineering Activity (ACO)	Inspection/Activity (MIDO)	Inspection - Airworthiness (MIDO)
	ESTABLISH CONFORMITY REQUIREMENTS	ISSUE STANDARD/SPECIAL AIRWORTHINESS CERTIFICATES
	DETERMINE CONFORMITY OF PARTS & TEST ARTICLES	ISSUE DOMESTIC AIRWORTHINESS APPROVALS
	DETERMINE CONFORMITY OF TEST SETUP	ISSUE EXPORT APPROVALS
	DETERMINE CONFORMITY FOR INSTALLATION AND TIA INSPECTIONS ON AIRCRAFT	ISSUE SPECIAL FLIGHT PERMITS
	EVALUATE PRODUCTION LIMITATIONS RECORD CHANGES	
	APPROVE MINOR CHANGES TO QC CONTROL MANUAL/PROCEDURES	

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April 2007



Federal Aviation
Administration

TSOA ODA Available Functions

TSOA ODA Unit Authorization Model		
Engineering Activity (ACO)	Inspection Activity (MIDO)	Inspection - Airworthiness (MIDO)
	DETERMINE CONFORMITY OF PARTS & TEST ARTICLES	ISSUE DOMESTIC AIRWORTHINESS APPROVALS
	DETERMINE CONFORMITY OF TEST SETUP	ISSUE EXPORT APPROVALS

Types of Organization Designation Authorizations (ODA)
April 2007



Federal Aviation
Administration

STC ODA Available Functions

STC ODA Unit Authorization Model		
Engineering Activity (ACO)	Inspection Activity (MIDO)	Inspection - Airworthiness (MIDO)
APPROVE TECHNICAL DATA AND FIND COMPLIANCE TO THE AIRWORTHINESS STANDARDS	DETERMINE CONFORMITY OF PARTS & TEST ARTICLES	ISSUE STANDARD/SPECIAL AIRWORTHINESS CERTIFICATES
ISSUE STCS and/or AMENDMENTS	DETERMINE CONFORMITY OF TEST SETUP	ISSUE SPECIAL FLIGHT PERMITS
APPROVE Operational and Repair Information	DETERMINE CONFORMITY FOR INSTALLATION AND AIRCRAFT	ISSUE REPLACEMENT STANDARD OR SPECIAL AIRWORTHINESS CERTIFICATE
APPROVE AIRWORTHINESS LIMITATIONS INFORMATION		
ESTABLISH CONFORMITY REQUIREMENTS		
PERFORM COMPLIANCE INSPECTIONS		

Types of Organization Designation Authorizations (ODA)
April 2007



Federal Aviation
Administration

MRA ODA Available Functions

MRA ODA Unit Authorization Model		
Engineering Activity (ACO)	Inspection Activity (FSDO)	Inspection - Airworthiness (FSDO)
APPROVE Operational and Repair Information	PERFORM AGING AIRCRAFT INSPECTIONS AND RECORDS REVIEWS	ISSUE STANDARD/SPECIAL AIRWORTHINESS CERTIFICATES
APPROVE AIRWORTHINESS LIMITATIONS INFORMATION		ISSUE DOMESTIC AIRWORTHINESS APPROVALS
APPROVE DATA FOR MAJOR ALTERATIONS AND/OR MAJOR REPAIRS		ISSUE EXPORT APPROVALS
		ISSUE REPLACEMENT FOR A LOST, STOLEN OR MULTIATED STANDARD OR SPECIAL AIRWORTHINESS CERTIFICATE

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April 2007



Federal Aviation
Administration

PMA ODA Available Functions

PMA ODA Unit Authorization Model		
Engineering Activity (ACO)	Inspection Activity (MIDO)	Inspection - Airworthiness (MIDO)
APPROVE TECHNICAL DATA AND FIND COMPLIANCE TO THE AIRWORTHINESS STANDARDS	ISSUE and REVISE PMA SUPPLEMENTS	ISSUE DOMESTIC AIRWORTHINESS APPROVALS
APPROVE Operational and Repair Information	ESTABLISH CONFORMITY REQUIREMENTS	ISSUE EXPORT APPROVALS
APPROVE AIRWORTHINESS LIMITATIONS INFORMATION	DETERMINE CONFORMITY OF PARTS & TEST ARTICLES	
ESTABLISH CONFORMITY REQUIREMENTS	DETERMINE CONFORMITY OF TEST SETUP	
	DETERMINE CONFORMITY FOR INSTALLATION AND TA INSPECTIONS ON AIRCRAFT	

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Acronym List for the Organization Designation Authorization Information Briefing

ACO	Aircraft Certification Office
AD	Airworthiness Directive
AEG	Aircraft Evaluation Group
AFM	Aircraft Flight Manual
CDO	Certified Design Organization
CFR	Code of Federal Regulations
CPI	Certification Product Improvement
DAR	Designated Airworthiness Representative
DAS	Designated Alteration Station
DER	Designated Engineering Representative
DMIR	Designated Manufacturing Inspection Representative
DOA	Delegated Option Authorization
DPE	Designated Pilot Examiner
FAA	Federal Aviation Administration
FS	Flight Standards
FSDO	Flight Standard District Office
ICA	Instructions for Continued Airworthiness
MIDO	Manufacturing Inspection District Office
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MRA	Major Repairs and Alterations
ODA	Organization Designation Authorization
ODAR	Organizational Designated Airworthiness Representative
OMT	Organization Management Team
PAH	Production Approval Holder
PC	Production Certificate
PM	Procedures Manual
PMA	Parts Manufacturer Approval
PNL	Project Notification Letter
PSCP	Project Specific Certification Plan
PSP	Partnership for Safety Plan
QC	Quality Control
SFAR	Special Federal Aviation Regulation
STC	Supplemental Type Certificate
TC	Type Certificate
TSOA	Technical Standard Orders Authorization
US	United States

UM United Member