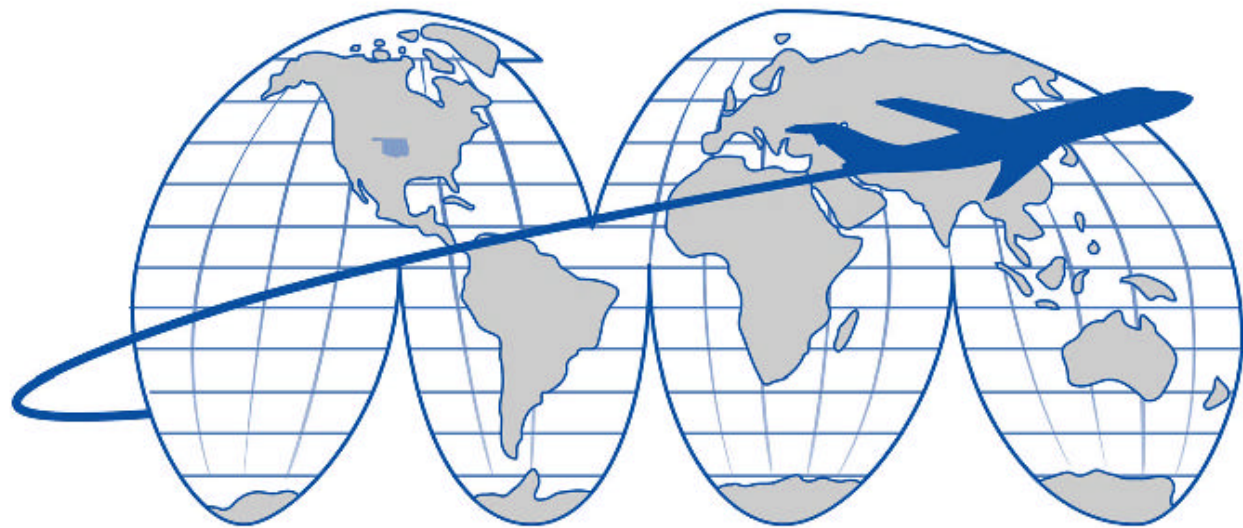


**FEDERAL AVIATION
ADMINISTRATION ACADEMY
OKLAHOMA CITY, OKLAHOMA**



**International
Training Division**

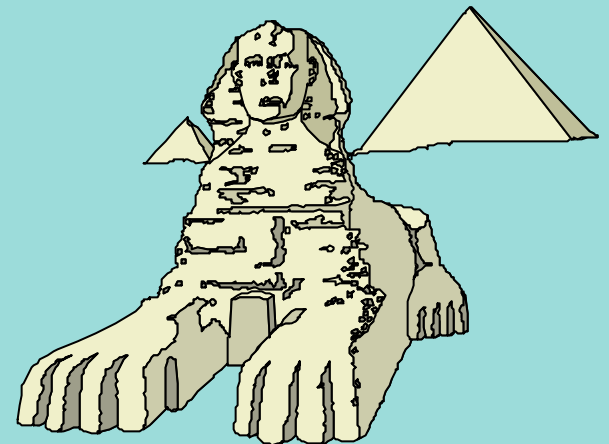
Quality Assurance Program Historical Background

- ◆ **In the beginning...**

There were no flying regulations!

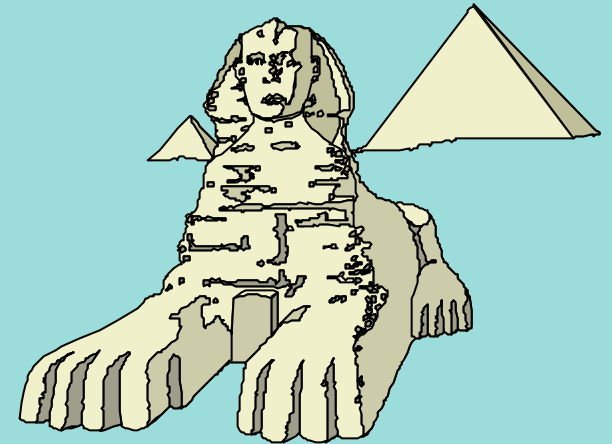
- ◆ **EXCEPT...**

1919 Flying Regulations



Quality Assurance Program Historical Background

◆ More 1919 Flying Regulations



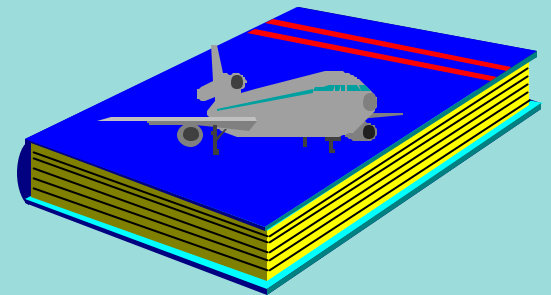
Air Commerce Act of 1926

First law promoting air safety

☰ Developed air regulations

☰ Authority to investigate accidents

☰ Determine probable cause



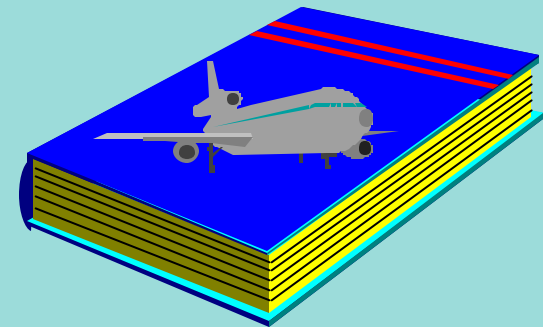
Civil Aeronautics Act of 1938

→ Created the Civil Aeronautics Authority

→ With a separate Air Safety Board to:
Investigate Accidents

Determine causes

Make recommendations



Congressional Action of 1940

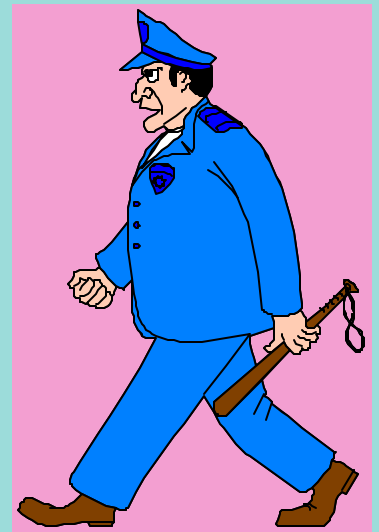
- ◆ **Created the Civil Aeronautics Administration (CAA)**
- ◆ **Created the Civil Aeronautics Board (CAB)**

**GRAND CANYON
JUNE 1956**






Federal Aviation Act of 1958




- ☞ **Created the FAA as an enforcement and rule-making agency**
- ☞ **Gave the FAA authority and responsibility to participate in aircraft accident investigations**
- ☞ **CAB retained investigative authority**



FAA Responsibilities In Aircraft Accident Investigation:

-  **Determine whether performance of FAA facilities was a factor.**
-  **Determine whether performance of Non-FAA owned and operated ATC Facilities or navigational aids was a factor.**
-  **Determine whether airworthiness of FAA-certified aircraft was a factor.**

FAA Responsibilities In Aircraft Accident Investigation:

-  **Determine whether competency of FAA-certificated airmen, air agencies, commercial operators or air carriers was involved.**
-  **Determine whether the FAR's were adequate.**
-  **Determine whether airport certification standards or operations were involved.**

More FAA Responsibilities In Aircraft Accident Investigation:



Determine whether airport security standards or operations were involved.



Determine whether airmen medical qualifications were involved.



Determine whether there was a violation of the FAR's.

DOT ACT of 1966

- ❖ **Created the Department of Transportation (DOT) as an agency.**
- ❖ **Created the National Transportation Safety Board (NTSB) mandated to conduct independent accident investigations AND recommend safety improvements.**

DOT ACT of 1966 - NTSB

- **Vigorous investigation of accidents.**
- **Continual review, appraisal, and assessment of the operating practices.**
- **Making of conclusions and recommendations.**

DOT ACT of 1966

**NTSB can't properly perform
unless it is totally separate
and independent**

Independent Safety Board Act of 1974

**Established the NTSB as an independent
agency of the United States**

NTSB MANDATE

The Board shall determine the facts, conditions, and circumstances and the *cause or probable cause or causes* of any aircraft accident.

**References:
8020.11, App. 4,
U.S.C. Title VIII, Part 800**

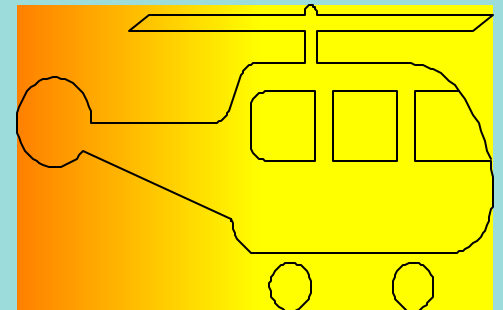
NTSB Duties

- **NTSB Investigator In Charge**
 - **Supervise field phase of the investigation**
 - **Control release of accident information**
Ref: 8020.11, par. 43
- **Accident Reports**
 - **Issue detailed, narrative accident report**
 - **Set forth facts and conditions**
 - **Determine probable cause**
 - **Make appropriate recommendations**

Public Notice Number One (PN-1)

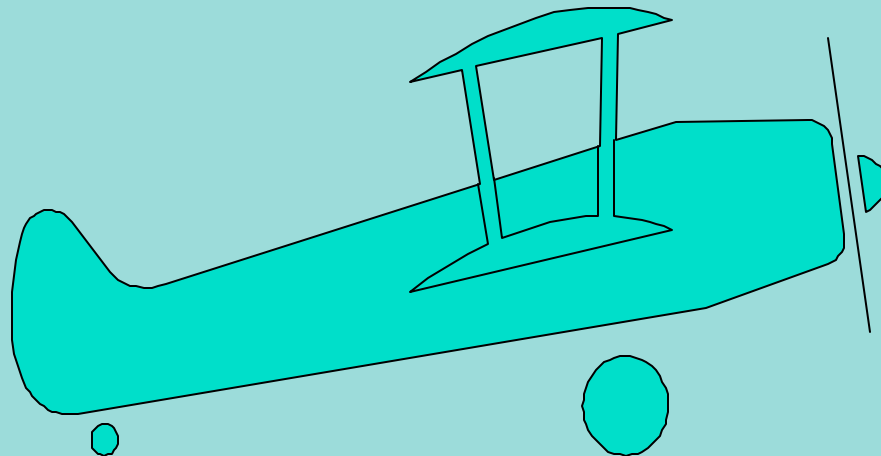
Provides for delegation to the FAA to investigate certain accidents:

- **Rotorcraft and civil aircraft of 12,500 or less, when there are NO fatalities**
- **Aerial application operations**



PN-1 Provisions

- **Restricted category aircraft operations (Experimental aircraft)**
- **Amateur built aircraft operations**



PN-1 Provisions (Cont'd)

FAA is NOT authorized to investigate:

- ◆ **Air Taxi operators or commercial operators of small aircraft (Part 135)**
- ◆ **Air carriers**
- ◆ **Midair collisions**

CHAIN OF COMMAND

NTSB IIC

FAA IIC

AIR TRAFFIC REP

EXTENT OF INVESTIGATION BY FAA

- Establish the facts, conditions, and circumstances of the occurrence.
- Ensure FAA responsibilities are met.
- Identify safety issues and submit meaningful safety recommendations.
- Submit a verbal report to NTSB.

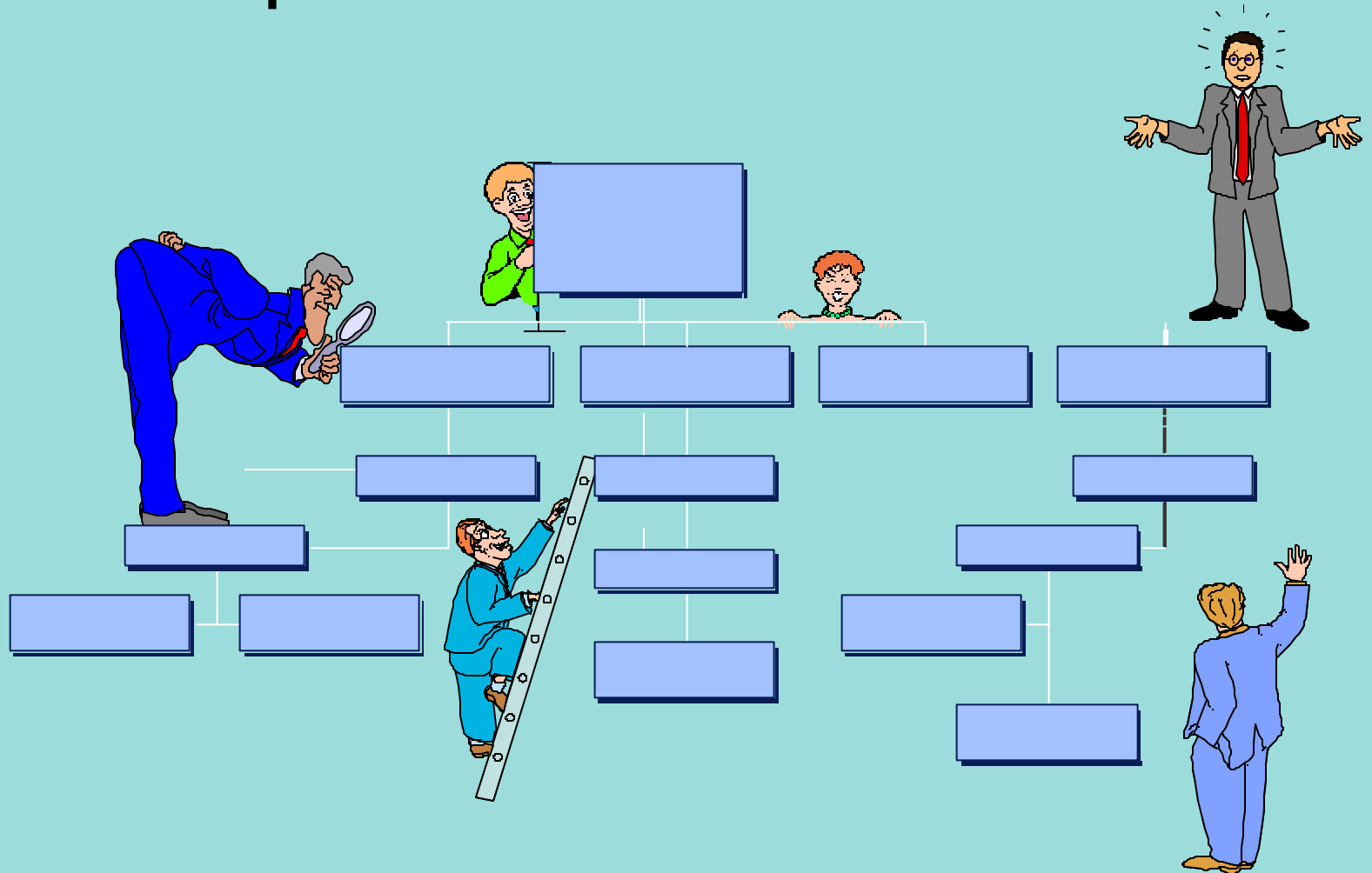
Ref: 8020.11, par. 192

Aviation Legislative History Summary

- 📄 **Air Commerce Act of 1926**
- 📄 **Civil Aeronautics Act of 1938**
- 📄 **Congressional Action of 1940**
- 📄 **FAA Act of 1958**
- 📄 **DOT Act of 1966**
- 📄 **Independent Safety Board Act of 1974**
- 📄 **Public Notice Number One (PN-1)**

Quality Assurance Programs

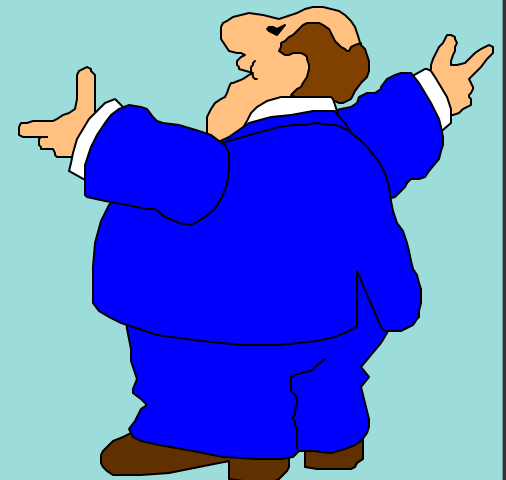
Purpose and Structure



Quality Assurance Programs

Purpose

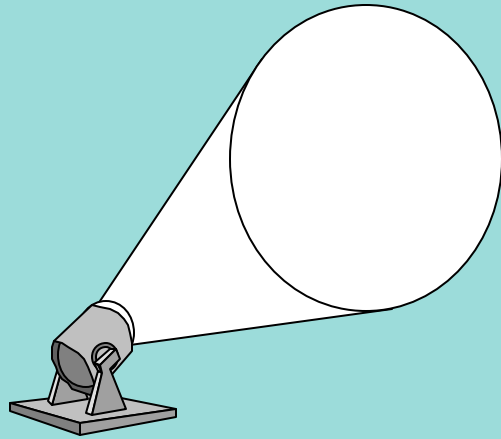
- **Help ensure safety, efficiency, and excellence in the service and products we provide.**



Quality Assurance Programs

QA Programs shall establish methods to identify and correct deficiencies and recognize successes in, as a minimum, the following four areas:

- Operational Error/Deviation Prevention
- Teamwork
- Communications
- Customer Service



AAT-20 Mission

AAT-100

- **Ensuring quality and effectiveness of Air Traffic programs, policies, standards, and procedures**

AAT-200

- **Ensuring quality Air Traffic Accident/ Incident investigations**

AAT-20

AIR TRAFFIC EVALUATIONS

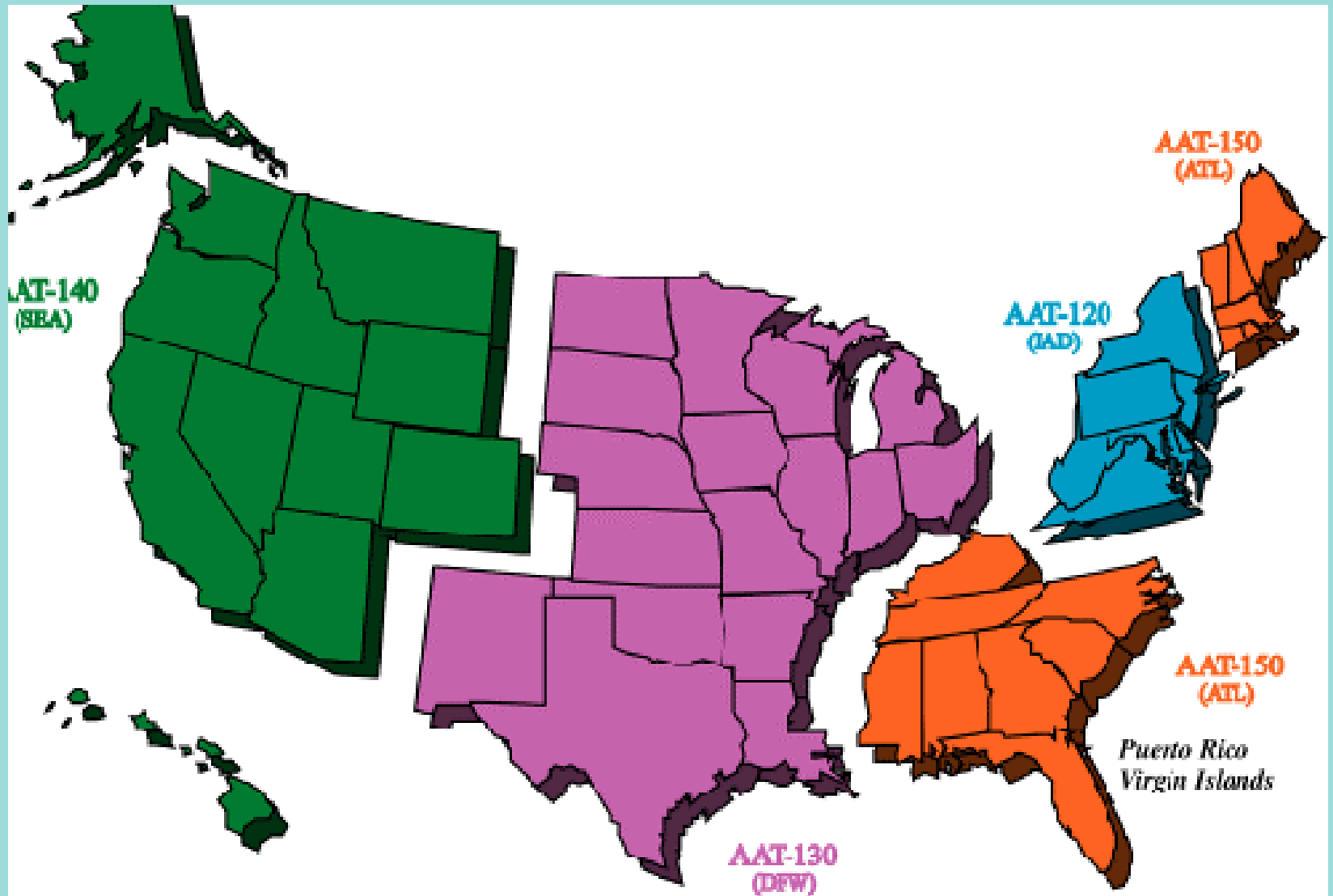
**Evaluations Branch
AAT-120**

**Evaluations Branch
AAT-130**

**Evaluations Branch
AAT-140**

**Evaluations Branch
AAT-150**

**Evaluate Air Traffic Services, Policies,
Standards, Procedures, and Programs**

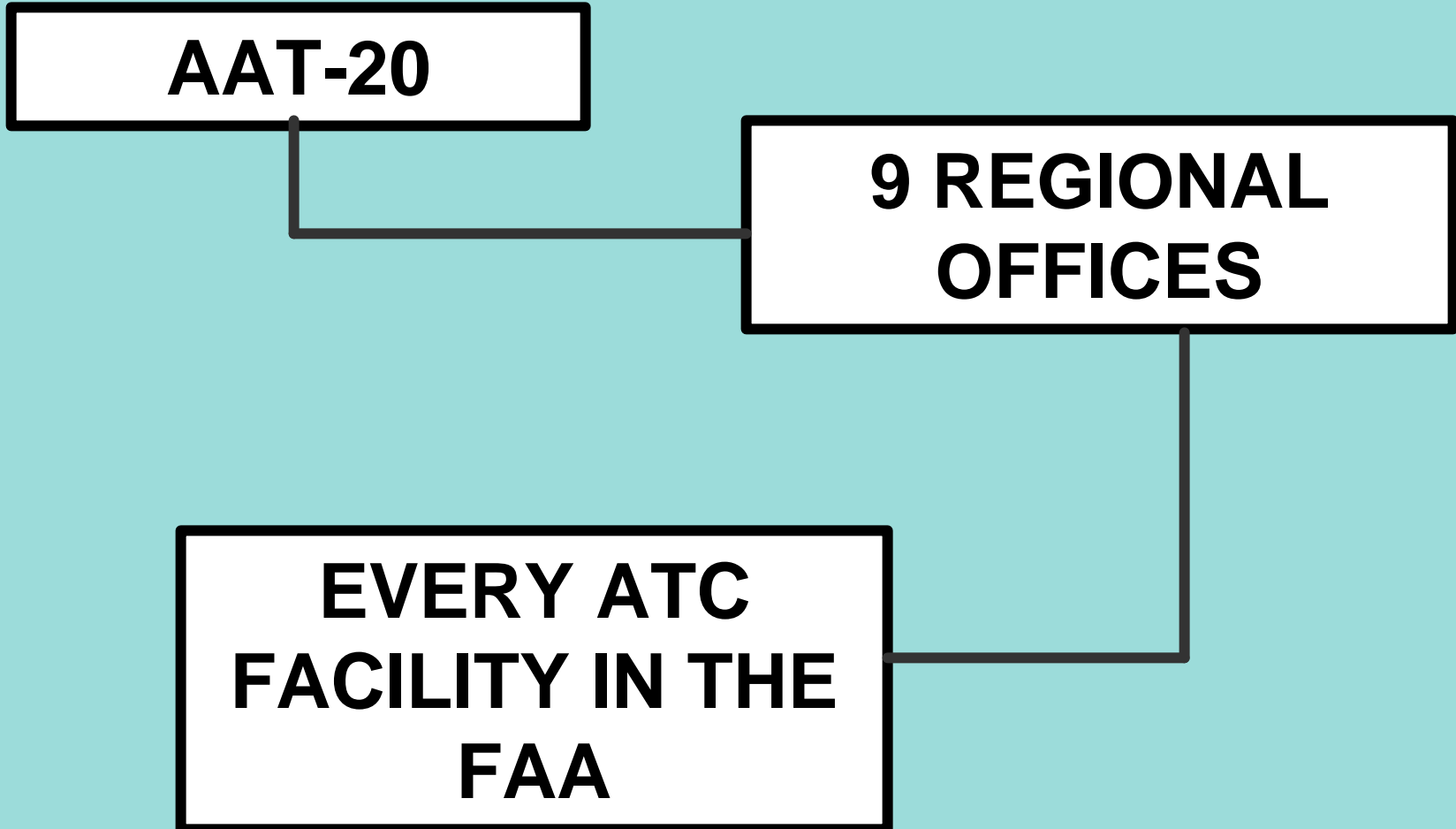


REGIONAL/FACILITY STRUCTURE

AAT-20

**9 REGIONAL
OFFICES**

**EVERY ATC
FACILITY IN THE
FAA**



AAT-20

AIR TRAFFIC INVESTIGATIONS STAFF

AAT-200



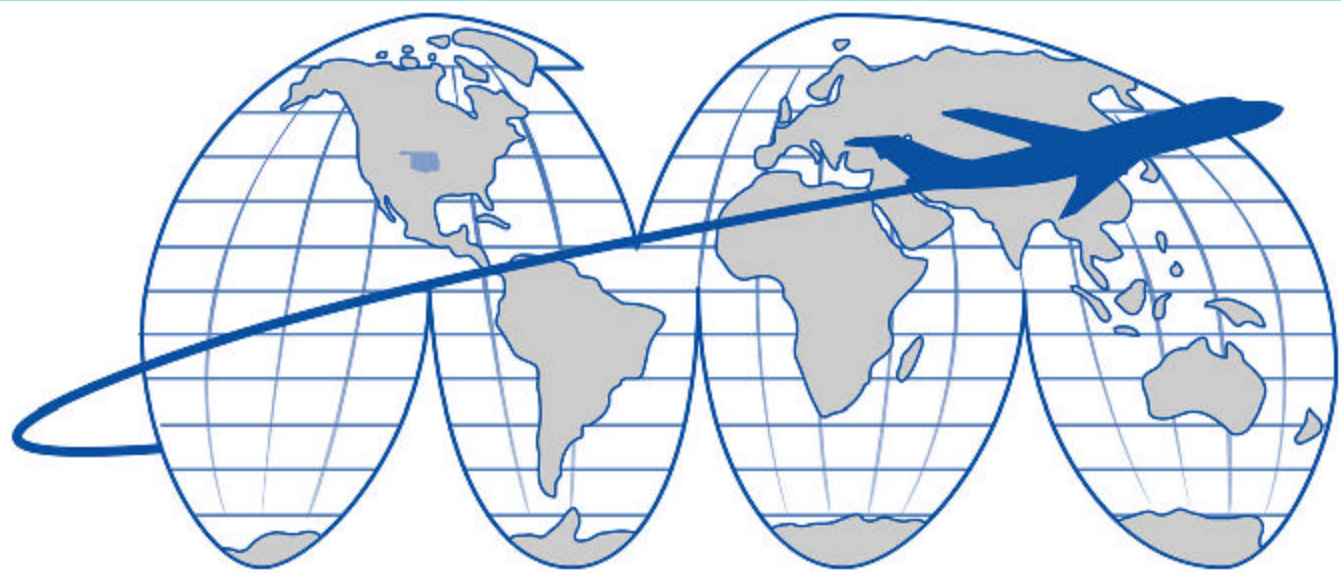
Alerts AAT-20 of accidents/incidents



**Responsible for all factors associated
with aircraft accidents,
FAA Order 8020.11, operational error
reporting, and LITIGATION**



Identify and predict problem trends



**International
Training Division**

**Quality Assurance Specialist
- International**

Course Objectives

- **Provide examples of effective programs**
- **Provide tools for improving existing programs**
- **Provide guidance for developing new programs**

Course Design

Orientation

Lesson 1: Introduction

Lesson 2: Organizing Your QA Program

Lesson 3: QA Definitions

Lesson 4: Incident Prevention Program

Lesson 5: Evaluation

Course Design, (con't.)

Lesson 6: Quality of Services Improvement Program

Lesson 7: Proficiency Training Program

Lesson 8: ATS Safety Management Program

Lesson 9: Air Traffic Incident Investigation and Reporting Program

Lesson 10: Notification, Investigation, and Reporting of Aircraft Accidents

Quality Assurance Specialist - International

- **Based on ICAO standards, rules and regulations**
- **Tuition-free Prototype scheduled for January/February 2002**
- **Limited availability (6 –8 Participants)**
- **Full deployment after prototype revisions**
- **Delivery in Oklahoma City or in country**

Contact Information
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International Training Division
Air Traffic Training Program Managers

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tim.schroeder@faa.gov