

# Airline Dispatchers Federation

## Annual Symposium Oceanic and International Operations

Presented to: ADF Symposium

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Federal Aviation  
Administration



# Agenda

- **Why an Oceanic and International Operations (OIO) Course?**
- **Course Outline**
- **Available Resources**



# Why an OIO course?

## FAA and Industry issues:

- **Problems when Aviation Safety Inspectors (ASIs) issue Special Areas of Operation (SAO) authorizations (Ops Specs)**
- **Not just a part 121 problem**
- **Operators (all parts) and FAA often lack clear understanding of key oceanic requirements:**
- **Comm/Nav/Surveillance**
- **ICAO Standards and FARs**
- **Flight planning and ETOPS**



# Why an OIO course?

- **Datalink**
- **Contingency procedures**
- **Oceanic errors**
- **Current and planned reduced separation**
- **Operational control**
- **Proving and Validation requirements**
- **In-line with FAA NextGen initiatives**



# Web-Based Course

## Two-step approach:

- **WBT – Course 27100172, Overview of Oceanic and International Operations**
- **Snapshot of subjects covered in OKC class**



# Academy Class

## Two-step approach:

- **In-Residence Course – 21000088, Oceanic and International Operations**
- **4 days taught at the OKC Academy**
- **In-depth coverage of WBT topics. 2-person scenarios simulate crew and/or dispatch concept**
- **ASIs have specific pre-requisites, i.e., 21000039 ICAO Standards for Inspectors**



# Academy Class

- **Four classes scheduled in FY 13. Expect one class per quarter to continue**
- **Numerous requests from industry to access the WBT and to attend the 4 day course, but not currently available**
- **Being considered as a future option- if interested, let the FAA know**



# Topics

## Basics of Navigation

- **Historical documents that shaped navigation**
- **Classes of navigation defined in FAA guidance**
- **“Extended over-water operations” defined in FAA guidance**
- **How the 12-mile limit affects navigation**
- **Identifying different navigation systems and their limitations**



# Topics

## FAA Guidance for Communications/Navigation

- **Part 91 Oceanic Operations**
- **Part 121 Oceanic Operations**
- **Part 125 Oceanic Operations**
- **Part 135 Oceanic Operations**



# Topics

## ICAO Guidance Materials

- **ICAO Planning and Implementation Groups with FAA participation**
- **Organizational development for the North Atlantic Tracks (NAT)**
- **Normal and Contingency procedures in the Procedures for Air Navigation Services Air Traffic Management (ICAO 4444 PANS ATM) (as amended)**



# Topics

## ICAO Guidance Materials (as amended)

- **Oceanic operations requirements documented in ICAO document Annex 2: Rules of the Air**
- **Oceanic operations requirements documented in ICAO document Annex 6: Operation of Aircraft**
- **Data Link requirements documented in ICAO document Annex 10: Aeronautical Telecommunications**

# Topics

## OIO Procedures and Processes

- **Special Areas of Operation (SAO)**
- **Communication, Navigation and Surveillance (CNS) requirements for each SAO**
- **Regulations for operations under each Part**
- **Operational control**
- **Responsibility for operational control**
- **Responsibility for exercising operational control**
- **Operational control systems for each Part**



# Topics

## Oceanic Operations

- **Need for an Oceanic Checklist**
- **Components of an Oceanic Checklist**
- **Need for a Dispatch Checklist**
- **Identify ICAO and FAA Guidance that define the details of Strategic Lateral Offset Procedure (SLOP)**
- **Identify industry misunderstandings about the use of SLOP**



# Topics

## **Performance – based Requirements/technology**

- **Performance - based CNS requirements**
- **Related ICAO guidance**
- **Data Link and how it works**
- **Data Link Systems and Benefits**
- **Guidance pertaining to Data Link Systems**
- **NextGen**
- **NextGen technologies**
- **How NextGen affects the ASI**



# Topics

## Flight Planning - Current, ICAO (2012)

- **Responsibilities of the certificate holder, dispatch, and flight planning vendor**
- **Guidance for international operations**
- **Current and pending equipment code changes on automated/manual ICAO Flight Plans**
- **Authorizations noted on the Flight Plan**
- **Areas that the ASI should spot check on Flight Plans**



# Topics

## OpSpecs, Weather and Fuel Requirements

- **OpsSpecs for each SAO**
- **Key components of OpSpecs for each SAO**
- **Common errors in SAO OpSpecs (issues identified during national reviews and corrective actions)**
- **Domestic and international weather services**
- **Key components of the weather package**



# Topics

## OpSpecs, Weather and Fuel Requirements

- **Fuel requirements meeting ICAO standards for International Ops under each Part**
- **Fuel requirements on an operational flight plan**
- **Special fuel reserve requests for which a specialist should be contacted**



# Topics

## Extended Operations (ETOPS)

- **Define ETOPS**
- **Key terms for ETOPS**
- **ETOPS related FAA regulations, Advisory Circular, and ICAO standards**
- **Geographic areas of ETOPS**



# Topics

## Equal Time Point (ETP)

- **Application of ETP in international and oceanic flights**
- **Applicable FAA and ICAO guidance**
- **ETP application for two, three or four engine aircraft**
- **ETP procedures under each part**
- **Factors requiring ETP recomputation**
- **ETP components on a Flight Plan**

# Topics

## Flight Planning and En-route Contingencies

- **Preflight strategies for contingencies**
- **Applicable regulations for hazardous weather**
- **Areas where active volcanoes are currently located**
- **Websites with volcanic ash alerts**
- **Normal procedures for reported or forecasted ash cloud events**
- **ATC contingency and normal procedures documented in the ICAO 4444 PANS ATM (as amended)**



# Topics

## Flight Planning and En-route Contingencies

- **Strategic Lateral Offset Procedures (SLOP)**
- **Weather Deviation and Single Aircraft Divert/  
Turnback events procedures**
- **Common procedural errors**
- **Loss of Communication or Navigation  
Systems procedures**
- **Dead Reckoning (DR) Contingency  
procedures**



# Topics

## Oceanic Errors and Plotting Charts

- **Guidance documents identifying oceanic errors**
- **Categories for different types of errors**
- **Process for identifying errors and sending notifications**
- **Common causes for oceanic errors**
- **FAA and ICAO guidance encouraging use of plotting charts**
- **Why Plotting Charts should be used despite no regulatory requirement**



# Topics

## Validations and Authorizations

- **Proving/Validation Flight FAR requirements for each Part**
- **Steps for certificating an operator**
- **Current process for involving specialists in Proving/Validation**
- **Role of the Air Transportation Oversight System (ATOS) in the certification process**



# Oceanic and International Operations

## Questions?

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