



**Federal Aviation
Administration**

***55054001
EN ROUTE
RADAR ASSOCIATE
CONTROLLER TRAINING PART A:
BASIC CONCEPTS***

**Lesson 4: General Control and Board
Management**










Version: 1.0 2022.08

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LESSON PLAN DATA SHEET

Course Name	En Route Radar Associate Controller Training Part A: Basic Concepts
Course Number	55054001
Lesson Title	General Control and Board Management
Duration	1 hour (includes lesson, and ELT)
Version	1.0 2022.08
Reference(s)	JO 7110.65, Air Traffic Control; JO 7610.4 Special Operations; JO 7210.3 Facility Operation and Administration; InFO 19002, Human Trafficking Recognition and Response Flight Training
Prerequisites	NONE
Handout(s)	NONE
Exercise / Activity	NONE
Scenario	NONE
Assessments	⦿ YES - Written
Materials and Equipment	⦿ Pencil and/or pen
Other Pertinent Information	<ul style="list-style-type: none"> ⦿ Ensure lesson materials are downloaded to the classroom computer ⦿ Familiarize yourself with local procedures for strip marking, strip posting, and board management. Be prepared to present them where indicated in the lesson plan. ⦿ Course 57833, GENERAL CONTROL and BOARD MANAGEMENT, current course is available as supplemental training for this lesson ⦿ This lesson is based on ERAM EAE410 ⦿ The lesson has been reviewed and reflects current orders and manuals as of April 2022

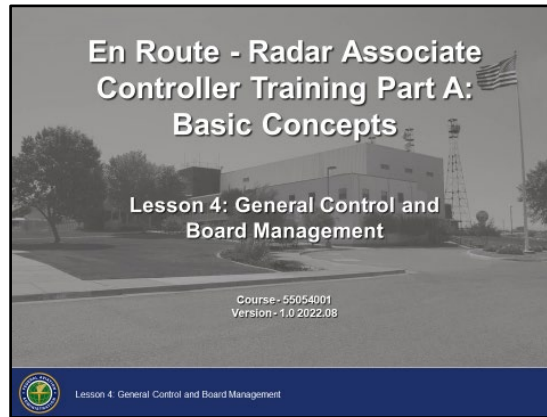
LESSON ICON LEGEND

	Description
	The Activity icon indicates an exercise, lab, or hands-on activity.
	The Discussion Question icon signals a discussion question to be asked to the students.
	The Handout icon indicates a handout is to be distributed to the students.
	The Instructor Note icon is in hidden text and indicates text that is for the instructor only.
	The Multimedia icon indicates a video or audio clip is in the presentation.
	The Phraseology icon indicates that phraseology is in the content.
	The WBT icon indicates a component of web-based training.
	The Click icon indicates a PPT slide with click-based functionality to present additional information.
	The Definition icon indicates a published definition.

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LESSON INTRODUCTION

Lesson Overview



Overview

The primary purpose of the ATC system is to prevent a collision involving aircraft operating in the system. When controlling traffic, it is necessary to prioritize the myriad of tasks that may arise. Some events will require your immediate attention, while others are less critical. In this lesson you will learn about duty priority, procedural preference, and operational priority.

This lesson also covers board management, which includes using flight strips to form a mental picture of traffic within your sector.


LESSON INTRODUCTION (CONT'D)

Lesson Objectives

Lesson Objectives

At the end of this lesson, you will be able to identify:

- Duty priority
- Expeditious compliance
- Operational priorities
- Requirements for reporting essential information
- General control procedures



Lesson 4: General Control and Board Management

1

Objectives

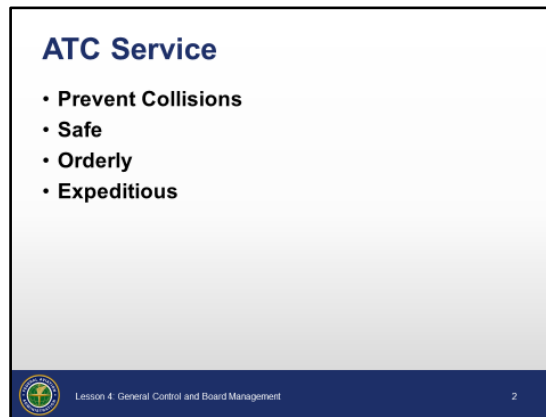
- ☉ At the end of this lesson, you will be able to identify:
 - Duty priority
 - Expeditious compliance
 - Operational priorities
 - Requirements for reporting essential information
 - General control procedures

NOTE: There will be a graded end-of-lesson test upon completion of the lesson. The passing score is 70%. If you do not achieve a score of 70%, you will be provided study time and one retake of an alternate end-of-lesson test.

DUTY PRIORITY

ATC Service

JO 7110.65, par.
2-1-1



ATC Service

- ⦿ The primary purpose of the ATC system is to prevent a collision involving aircraft operating in the system
 - ⦿ Provide a safe, orderly, and expeditious flow of air traffic
 - Safe
 - Can never be compromised, our primary goal
 - All situations must be safe at all times
 - Orderly
 - Chaotic situations are difficult to manage and/or resolve
 - ATC is a team effort. If one sector is experiencing higher than normal workload it has a negative effect on others.
 - Choose the more orderly action where safety is not compromised
 - Expeditious
 - Time and distance are costly to airborne operations
 - Crew expenses, fuel, passenger time
 - Consider expeditious plans/clearances if safe and orderly
-


DUTY PRIORITY (CONT'D)

ATC Service (Cont'd)

JO 7110.65, par.
2-1-1

ATC Service (Cont'd)

- **Provide Additional Services**
 - Not optional
- **Services may be precluded by:**
 - Volume of traffic
 - Frequency congestion
 - Quality of surveillance
 - Controller workload
 - Higher priority duties
 - Physical inability to scan and detect situations falling in this category

 Lesson 4: General Control and Board Management 3

- ⦿ Provide additional services to the extent permitted. This is:
 - Not optional
 - Required when workload permits
 - ⦿ It is recognized that the provision of these services may be precluded by various factors, including, but not limited to:
 - Volume of traffic
 - Frequency congestion
 - Quality of surveillance
 - Controller workload
 - Higher priority duties
 - Physical inability to scan and detect situations falling in this category
-


DUTY PRIORITY (CONT'D)

ATC Service (Cont'd)

JO 7110.65, par.
2-1-1

ATC Service (Cont'd)

- **Control in accordance with JO 7110.65**
 - Unless a deviation to conform with:
 - ICAO Documents
 - National Rules of the Air
 - Special agreements where the U.S. provides air traffic control outside the U.S. and its possessions
 - Other procedures/minima prescribed LOA, FAA directive, or a military document
 - A deviation is necessary to assist an aircraft when an emergency has been declared

 Lesson 4: General Control and Board Management 4

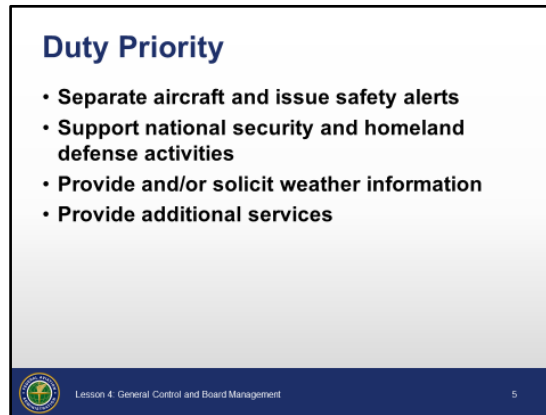
- ⊙ Controllers must provide air traffic control service in accordance with the procedures and minima in JO 7110.65, except when one or more of the following conditions exist:
 - A deviation is necessary to conform with:
 - International Civil Aviation Organization (ICAO) documents
 - National Rules of the Air
 - Special agreements where the U.S. provides air traffic control service in airspace outside the U.S. and its possessions
 - Other procedures/minima are prescribed in a letter of agreement, FAA directive, or a military document
 - A deviation is necessary to assist an aircraft when an emergency has been declared

NOTE: Air traffic control services are not provided for model aircraft operating in the National Airspace System (NAS). This does not prohibit ATC from providing services to civil and public Unmanned Aircraft Systems (UAS).

DUTY PRIORITY (CONT'D)

Duty Priority

JO 7110.65, par.
2-1-2



Duty Priority

- ⦿ Duty priority concerns the tasks you must perform, in order of importance
- ⦿ Give first priority to separating aircraft and issuing safety alerts
 - Good judgment must be used in prioritizing all other situations
- ⦿ Provide support to national security and homeland defense activities, to include, but not be limited to reporting of suspicious and/or unusual aircraft/pilot activities
- ⦿ Provide and/or solicit weather information
- ⦿ Provide additional services to the extent possible

NOTE: Because there are many variables involved, it is virtually impossible to develop a standard list of duty priorities that would apply uniformly to every conceivable situation. Each set of circumstances must be evaluated on its own merit, and when more than one action is required, controllers must exercise their best judgement based on the facts and circumstances known to them. The most critical from a safety standpoint is performed first.


DUTY PRIORITY (CONT'D)

Procedural Preference

JO 7110.65, par.
2-1-3

Procedural Preference

- Use automation procedures in preference to non-automation procedures
- Use radar separation in preference to nonradar separation when it will provide an operational advantage
- Use nonradar separation in preference to radar separation when an operational advantage will be gained

 Lesson 4: General Control and Board Management 6

Procedural Preference

- ⦿ Procedural preference is choosing which form of separation/coordination to use
- ⦿ Use automation procedures in preference to non-automation procedures when permitted by:
 - Workload
 - Communications
 - Equipment capabilities
- ⦿ Use radar separation in preference to nonradar separation when it will provide an operational advantage and when permitted by:
 - Communications
 - Workload
 - Equipment capabilities
- ⦿ Use nonradar separation in preference to radar separation when an operational advantage will be gained

NOTE: One example of procedural preference is using vertical separation in lieu of excessive vectoring.



DUTY PRIORITY (CONT'D)

Knowledge Check

Knowledge Check

Nonradar separation cannot be used within a radar environment.

A. True
B. False

 Lesson 4: General Control and Board Management  7

True or False:

Nonradar separation cannot be used within a radar environment.



DUTY PRIORITY (CONT'D)

Knowledge Check

Knowledge Check

What is the first duty priority of an air traffic controller?

- A. Solicit weather information
- B. Separating aircraft and issuing safety alerts
- C. Support to national security
- D. Provide additional services

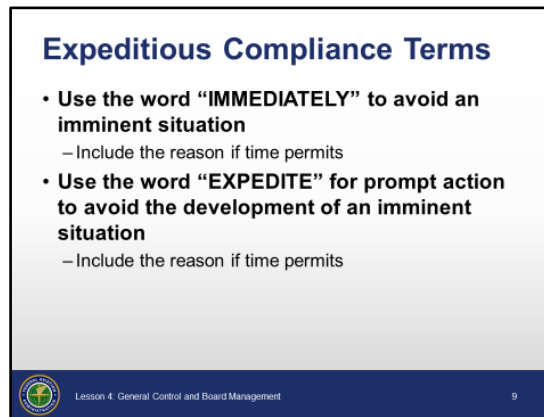
 Lesson 4: General Control and Board Management  B

Question: What is the first duty priority of an air traffic controller?

EXPEDITIOUS COMPLIANCE

Expeditious Compliance Terms

JO 7110.65, par.
2-1-5



Expeditious Compliance Terms

- ⦿ Use the word "IMMEDIATELY" to avoid an imminent situation
 - Include the reason if time permits
- ⦿ Use the word "EXPEDITE" for prompt action to avoid the development of an imminent situation
 - Include the reason if time permits

NOTE: If "EXPEDITE" is used when issuing climb/descent clearances, and subsequently the altitude to maintain is changed or restated without an "EXPEDITE" instruction, the "EXPEDITE" instruction is cancelled.


EXPEDITIOUS COMPLIANCE (CONT'D)

Safety Alerts

JO 7110.65, par.
2-1-6

Safety Alerts

- **Issue a safety alert if you are aware of an aircraft at position or altitude which places it in unsafe proximity to:**
 - Terrain
 - Obstruction
 - Another aircraft
- **Do NOT assume another controller has acted to correct the unsafe situation**
 - Inform the controller responsible for issuing the safety alert



Lesson 4: General Control and Board Management

10

Safety Alerts



- ⦿ Issue a safety alert if you are aware of an aircraft at a position or altitude which places it in unsafe proximity to:
 - Terrain
 - Obstructions
 - Another aircraft
- ⦿ Do not assume another controller has acted to correct the unsafe situation
 - Inform the controller responsible for issuing the safety alert
- ⦿ Once informed by the pilot that corrective action is being taken, you may discontinue the issuance of further alerts

EXPEDITIOUS COMPLIANCE (CONT'D)

Knowledge Check

Knowledge Check
Which statement is correct about safety alerts?

A. Safety alerts are a pilot's responsibility
B. Safety alerts have equal priority with separation
C. Safety alerts are advisory in nature

 Lesson 4: General Control and Board Management  11

Question: Which statement is correct about safety alerts?



EXPEDITIOUS COMPLIANCE (CONT'D)

Knowledge Check

Knowledge Check

What term is used to specify prompt action in a clearance?

- A. Expedite
- B. Immediately
- C. Promptly

 Lesson 4: General Control and Board Management  12

Question: What term is used to specify prompt action in a clearance?



EXPEDITIOUS COMPLIANCE (CONT'D)

Knowledge Check

Knowledge Check

Which of the following has the highest priority?

- A. Relaying control information
- B. Issuing a safety alert to a VFR aircraft
- C. Providing airport weather information

 Lesson 4: General Control and Board Management  13

Question: Which of the following has the highest priority?


OPERATIONAL PRIORITY

Operational Priority

JO 7110.65, par.
2-1-4

Operational Priority

- **Aircraft in distress have the right of way**
- **Provide air traffic on a “first-come, first-served” basis, except:**
 - Air ambulance flights
 - Provide priority handling when the pilot verbally identifies the flight by stating MEDEVAC
 - When verbally requested, provide priority handling to AIR EVAC, HOSP, and scheduled air carrier/air taxi flights
 - Presidential or Vice Presidential aircraft and any escort aircraft

 Lesson 4: General Control and Board Management 14

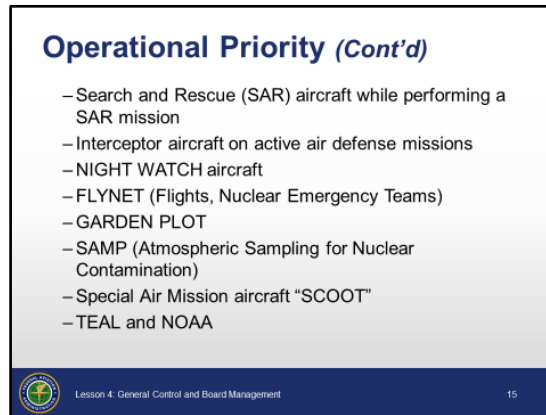
Operational Priority

- ⦿ Operational priority is the set of rules that governs who gets what first
- ⦿ Aircraft in distress have the right of way over all other traffic
- ⦿ Provide air traffic control service to aircraft on a “first come, first served” basis as circumstances permit, except the following flights have priority:
 - Air ambulance flights
 - Provide priority handling when the pilot verbally identifies the flight by stating MEDEVAC followed by the FAA authorized call sign or the full civil registration letters/numbers
 - When verbally requested, provide priority handling to AIR EVAC, HOSP, and scheduled air carrier/air taxi flights
 - Presidential or Vice Presidential aircraft and any escort aircraft

OPERATIONAL PRIORITY (CONT'D)

Operational Priority (Cont'd)

JO 7110.65, par.
2-1-4



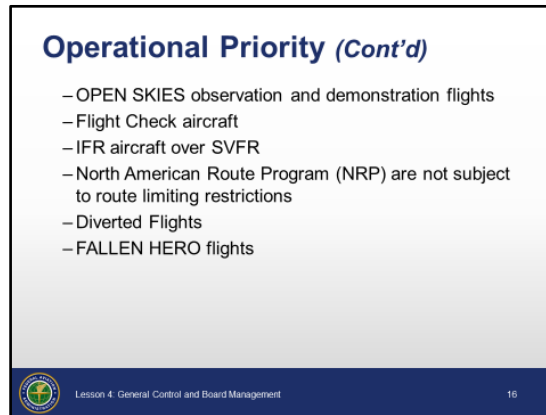
- Search and Rescue (SAR) aircraft while performing a SAR mission
 - Interceptor aircraft on active air defense missions
 - NIGHT WATCH aircraft
 - “NAOC” will not be part of the call sign, but may be used in remarks or air/ground communications to indicate that special handling is required
 - FLYNET (Flights, Nuclear Emergency Teams)
 - Civil or military aircraft using this code name
 - GARDEN PLOT
 - When notified by Central Altitude Reservation Function (CARF)
 - SAMP (Aerial sampling/surveying missions, sampling for nuclear, chemical, or hazardous material contamination)
 - Special Air Missions when “SCOOT” is indicated in the remarks section of the flight plan or in air/ground communications
 - “SCOOT” will not be part of the call sign, but may be used when aircraft is airborne to indicate a request for special handling
 - TEAL and NOAA (National Oceanic and Atmospheric Administration)
 - May be requested by the pilot via telephone or in remarks section of the flight plan
-

OPERATIONAL PRIORITY (CONT'D)

Operational Priority (Cont'd)

JO 7110.65,
pars. 2-1-4, 2-2-
15

JO 7210.3, par.
18-18-5



- OPEN SKIES observation and demonstration flights
 - Flight Check aircraft
 - IFR aircraft must have priority over SVFR aircraft
 - Aircraft operating under the North American Route Program (NRP)
 - Flights must be on preferred IFR routes for that portion of flight within 200 NM from the point of departure or destination
 - Outside this portion, these aircraft are NOT subject to route limiting restrictions; e.g., published preferred IFR routes, LOA requirements, SOPs
 - Diverted flights
 - DVRSN in remarks of flight plan or being placed on the Diversion Recovery Tool (DRT)
 - FALLEN HERO flights
 - Indicated in the remarks section of the flight plan or requested in air/ground communications
-



OPERATIONAL PRIORITY (CONT'D)

Knowledge Check

Knowledge Check

Which of the following has the highest priority?

- A. Aircraft in distress
- B. FLYNET Nuclear Emergency Teams
- C. OPEN SKIES Aircraft
- D. NIGHT WATCH National Airborne Operations

 Lesson 4: General Control and Board Management  17

Question: Which of the following has the highest priority?



OPERATIONAL PRIORITY (CONT'D)

Knowledge Check

Knowledge Check

When is an AIR EVAC flight provided priority handling?

- A. When requested by the pilot
- B. When carrying patients as indicated in remarks
- C. Always

 Lesson 4: General Control and Board Management  18

Question: When is an AIR EVAC flight provided priority handling?



OPERATIONAL PRIORITY (CONT'D)

Knowledge Check

Knowledge Check

What is the operational priority for providing air traffic control services?

- A. Arriving aircraft over departing aircraft
- B. SVFR aircraft over IFR aircraft
- C. First-come, first-served

 Lesson 4: General Control and Board Management  19

Question: What is the operational priority for providing air traffic control services?


OPERATIONAL PRIORITY (CONT'D)

Knowledge Check


Knowledge Check

Which of the following normally would **NOT** receive priority handling?

- A. Turbojet arrival
- B. FLYNET mission
- C. Flight Check mission



Lesson 4: General Control and Board Management

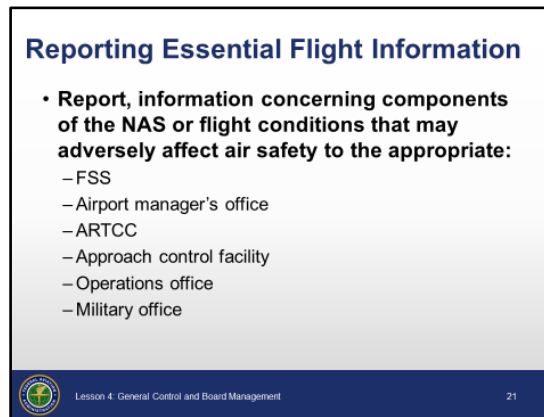
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Question: Which of the following normally would **NOT** receive priority handling?

REPORTING ESSENTIAL FLIGHT INFORMATION

Reporting Essential Flight Information

JO 7110.65, par.
2-1-9



Reporting Essential Flight Information

- ⦿ Report, as soon as possible, any information concerning components of the NAS or flight conditions that may adversely affect air safety to the appropriate facility, such as:
 - FSS
 - FSS is responsible for Notice to Air Missions (NOTAM) action, if necessary
 - Airport manager's office
 - ARTCC
 - Approach control
 - Operations office
 - Military operations office

NOTE: Examples of conditions that might be reported: NAVAID outages, radar system failures, computer outages, turbulence, and weather conditions.

REPORTING ESSENTIAL FLIGHT INFORMATION


(CONT'D)

NAVAID Malfunctions

JO 7110.65, par.
2-1-10

NAVAID Malfunctions

- **When an aircraft reports a NAVAID malfunction, request a report from another aircraft**
 - If second aircraft reports normal:
 - Continue use
 - Inform pilot making malfunction report
 - Inform your supervisor/CIC

 Lesson 4: General Control and Board Management 22

NAVAID Malfunctions

- ⦿ When an aircraft reports a ground-based NAVAID malfunction, request a report from another aircraft
 - If the second aircraft reports normal:
 - Continue use of NAVAID
 - Inform pilot making malfunction report
 - Inform your supervisor/CIC
-


REPORTING ESSENTIAL FLIGHT INFORMATION (CONT'D)

NAVAID Malfunctions (Cont'd)

JO 7110.65, par.
2-1-10

NAVAID Malfunctions (Cont'd)

- **If second aircraft confirms malfunction, or if unable to get a second report:**
 - Request monitor facility to activate standby equipment
- **If normal operation is reported after going to standby equipment:**
 - Continue use of NAVAID
 - Inform your supervisor/CIC

Lesson 4: General Control and Board Management23

- If a second aircraft confirms malfunction, or if unable to get a second report:
 - Request monitor facility to activate standby equipment
 - If normal operation is reported after going to standby equipment:
 - Continue use of NAVAID
 - Inform your supervisor/CIC
-

REPORTING ESSENTIAL FLIGHT INFORMATION


(CONT'D)

GPS or WAAS Anomaly

JO 7110.65, par.
2-1-10

GPS or WAAS Anomaly

- **Record the following:**
 - Aircraft make, model, and callsign
 - Location or position, and altitude
 - Date/time of occurrence
- **Request a report from a second aircraft**
- **Inform your supervisor/CIC**
- **Inform other aircraft of the anomaly**

 Lesson 4: General Control and Board Management 24

GPS or WAAS Anomaly



GLOBAL POSITIONING SYSTEM (GPS) - The worldwide positioning, navigation, and timing determination capability available from the U.S. satellite constellation.



WIDE-AREA AUGMENTATION SYSTEM (WAAS) - A satellite navigation system consisting of the equipment and software which augments the GPS Standard Positioning Service (SPS). The WAAS provides enhanced integrity, accuracy, availability, and continuity over and above GPS SPS. The differential correction function provides improved accuracy required for precision approach.

- ⦿ When an aircraft reports a GPS or WAAS anomaly, request the following information and/or take the following actions:
 - Record the following minimum information:
 - Aircraft make, model, and call sign
 - Location or position, and altitude at the time where GPS or WAAS anomaly was observed
 - Date/time of occurrence
 - Request a report from a second aircraft
 - Inform your supervisor/CIC
 - Inform other aircraft of the anomaly

REPORTING ESSENTIAL FLIGHT INFORMATION (CONT'D)


Supervisory and Pilot Notification

JO 7110.65, par.
2-1-26

JO 7610.4, par.
7-3-1

Supervisory and Pilot Notification

- **Ensure supervisor/CIC is aware of conditions affecting sector operations, including:**
 - Weather
 - Equipment status
 - Potential sector overload
 - Emergency situations
 - Special flights/operations
 - Possible suspicious aircraft/pilot activity

 Lesson 4: General Control and Board Management 25

Supervisory and Pilot Notification

- ⦿ Ensure supervisor/CIC is aware of conditions affecting sector operations, including, but not limited to, the following:
 - Weather
 - Equipment status
 - Potential sector overload
 - Emergency situations
 - Special flights/operations
 - Aircraft/pilot activity, including:
 - Unmanned Aircraft System (UAS) operation that is considered suspicious
 - Unauthorized, hazardous, and/or threatening operations

NOTE: The intent is for controllers to use common sense about suspicious activity. Controller actions to determine this will vary.

Examples: Ask the aircraft in plain English to confirm flight deck is secure/crew is not being interfered with.

Check crew response to other routine ATC communication (radio check, etc.).

Inform the supervisor/CIC, who would then notify/check with the Domestic Events Network (DEN).

REPORTING ESSENTIAL FLIGHT INFORMATION (CONT'D)

Blue Lightning Events

JO 7110.65, par.
2-1-31

JO 7210.3, par.
2-7-7

FAA InFO 19002



Blue Lightning Events

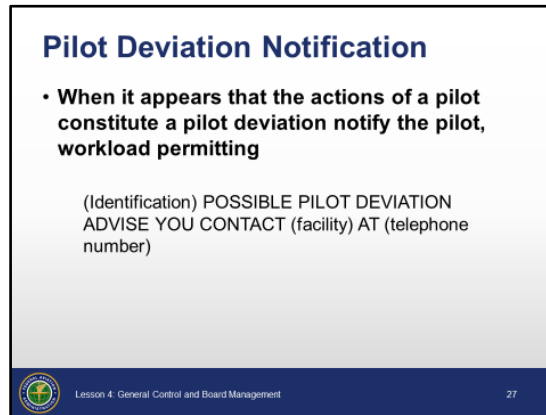
- ⦿ Reports of possible human trafficking
 - Ensure that the supervisor/CIC is notified

NOTE: Human trafficking is a crime involving the exploitation of someone for the purposes of compelled labor or a commercial sex act through the use of force, fraud, or coercion.

REPORTING ESSENTIAL FLIGHT INFORMATION (CONT'D)

Pilot Deviation Notification

JO 7110.65, par.
2-1-27



Pilot Deviation Notification

- ⦿ When it appears that the actions of a pilot constitute a pilot deviation, notify the pilot, workload permitting



(Identification) POSSIBLE PILOT DEVIATION ADVISE YOU
CONTACT (facility) AT (telephone number)

REPORTING ESSENTIAL FLIGHT INFORMATION



(CONT'D)

Knowledge Check

Knowledge Check

A pilot reports not receiving a NAVAID signal. What is your next action?

- A. Immediately activate the standby system
- B. Request a report from another aircraft
- C. Log the report on FAA form 7230-4

 Lesson 4: General Control and Board Management  28

Question: A pilot reports not receiving a NAVAID signal. What is your next action?

GENERAL CONTROL

Formation Flights

JO 7110.65, par.
2-1-13, PCG

Formation Flights

- **Control formation flights as a single aircraft**
 - Issue control instructions to formation leader
 - Ensure flight plan data accurately reflects the number of aircraft



 Lesson 4: General Control and Board Management 29

Formation Flights



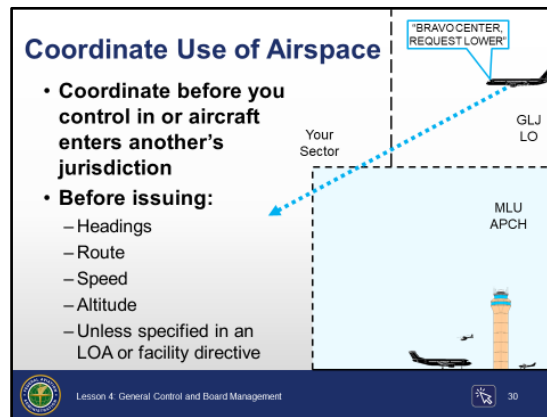
FORMATION FLIGHT - More than one aircraft which, by prior arrangement between the pilots, operate as a single aircraft with regard to navigation and position reporting. Separation between aircraft within the formation is the responsibility of the flight leader and the pilots of the other aircraft in the flight.

- ⦿ Control formation flights as a single aircraft
 - Issue control instructions to formation leader
 - Ensure flight plan data accurately reflects the number of aircraft
-

GENERAL CONTROL (CONT'D)

Coordinate Use of Airspace

JO 7110.65, par.
2-1-14



Coordinate Use of Airspace

- ⦿ Ensure necessary coordination has been accomplished before allowing an aircraft under your control to enter another controller's area of jurisdiction
- ⦿ Before issuing control instructions that will change the heading, route, speed, or altitude of an aircraft not in your airspace ensure that coordination has been accomplished with all controllers affected by those instructions, including:
 - The controller within whose area of jurisdiction the control instructions will be issued
 - The receiving controller (when you as the transferring controller have issued instructions in the receiving controller airspace)
 - Any intervening controller(s) through whose airspace the aircraft will pass

NOTE: Unless specified in a Letter of Agreement (LOA) or facility directive.

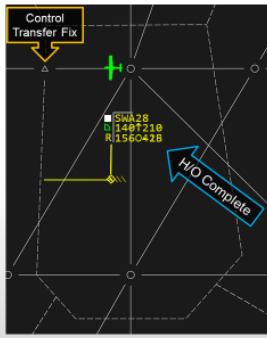
GENERAL CONTROL (CONT'D)


Control Transfer

JO 7110.65, par.
2-1-15

Control Transfer

- **Transfer at:**
 - A prescribed or coordinated location, time, fix, or altitude; or
 - Time a radar handoff and frequency change to the receiving controller have been completed



Lesson 4: General Control and Board Management31

Control Transfer

- ⦿ Transfer control responsibility at:
 - A prescribed or coordinated location, time, fix, or altitude; or
 - Time a radar handoff and frequency change to the receiving controller has been completed
 - When authorized by a facility directive or LOA specifying type and extent of control that is transferred
- ⦿ Transfer control only after eliminating any potential conflict with other aircraft for which you have separation responsibility

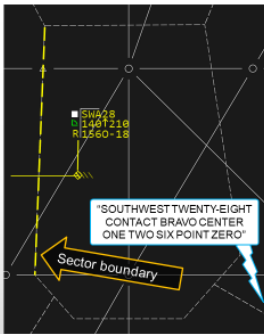
GENERAL CONTROL (CONT'D)


Radio Communications Transfer

JO 7110.65, par. 2-1-17

Radio Comm Transfer

- Transfer comm before entering the receiving controller's area
- Specify:
 - Who to contact
 - Frequency



Lesson 4: General Control and Board Management32

Radio Communications Transfer

- ⊙ Transfer communications before an aircraft enters the receiving controller's area, unless:
 - Coordinated
 - Specified by LOA or facility directive
- ⊙ Transfer communications by specifying the following:
 - Who to contact, including:
 - Facility name, or
 - Location name and terminal function

Examples: "ATLANTA CENTER," "JACKSON RADIO," "SAINT LOUIS APPROACH," "CRAIG TOWER"
 - Frequency
 - Optional for:
 - FSS
 - Departure, if previously given or published on SID chart
 - Time, fix, altitude, or specified condition when to change frequency
 - May be omitted if compliance is expected upon receipt

Example: "SOUTHWEST TWENTY-EIGHT CONTACT BRAVO CENTER ONE TWO SIX POINT ZERO"

Continued on next page

GENERAL CONTROL (CONT'D)

Radio Communications Transfer (Cont'd)

JO 7110.65, par.
2-1-17

- ⦿ Transfer communications within your sector when:
 - A sector has multiple frequencies
 - Sectors are combined using multiple frequencies and aircraft will remain under your jurisdiction
 - Instruct the aircraft to change to your frequency



(Identification) CHANGE TO MY FREQUENCY (frequency)

- ⦿ Avoid issuing frequency change to single-piloted helicopters during:
 - Air-taxiing
 - Hovering
 - Low-level flight
- ⦿ In situations in which the controller does not want the pilot to leave the frequency, advise the pilot to remain on your frequency



REMAIN THIS FREQUENCY

GENERAL CONTROL (CONT'D)

Operational Request

JO 7110.65, par.
2-1-18

Operational Request

- Respond to a request from another controller, pilot
- Restating the request in complete or abbreviated terms followed by "APPROVED"

Diagram illustrating an Operational Request scenario on a radar screen. The screen shows a radar grid with a blue area representing weather. A yellow line indicates the requested deviation. Text boxes on the screen show the request and the approval.

Lesson 4: General Control and Board Management 33

Operational Request

- ⦿ Respond to a request from another controller, pilot, or vehicle operator by stating one of the following:

- Restate the request in complete or abbreviated terms followed by the word APPROVED



(Requested operation) APPROVED

- In lieu of a lengthy clearance, use:



APPROVED AS REQUESTED

- State restrictions followed by the word APPROVED



(Restriction and/or additional instructions, requested operation)
APPROVED

Example: Pilot – “DELTA FORTY-TWO REQUEST RIGHT DEVIATION AROUND WEATHER”

Controller – “DELTA FORTY-TWO, DEVIATION RIGHT APPROVED”

GENERAL CONTROL (CONT'D)

Operational Request (Cont'd)

JO 7110.65, par.
2-1-18

- State the word UNABLE and, time permitting, a reason or additional instructions



UNABLE (requested operation)

- State the words STAND BY



STAND BY



NOTE: STAND BY is not an approval or denial. The controller acknowledges the request and will respond at a later time.

GENERAL CONTROL (CONT'D)

Knowledge Check

Knowledge Check
When may you issue control instructions in another controller's area?

A. After coordinating your actions
B. Once you have established communications with the pilot
C. When the target is radar identified

 Lesson 4: General Control and Board Management  34



Question: When may you issue control instructions in another controller's area?

GENERAL CONTROL (CONT'D)

Knowledge Check

Knowledge Check
Which statement is correct concerning formation flights?

A. Control instructions must be issued and acknowledged by each aircraft within the formation
B. Separation within the formation is the responsibility of the flight leader and the pilots in the flight
C. Air traffic control must ensure separation between aircraft established within a formation

 Lesson 4: General Control and Board Management  35

Question: Which statement is correct concerning formation flights?



GENERAL CONTROL (CONT'D)

Knowledge Check

Knowledge Check

What is the phraseology to disapprove a pilot request?

- A. "NEGATIVE YOUR PREVIOUS REQUEST"
- B. "REFUSING REQUESTED ACTION"
- C. "UNABLE DUE TO TRAFFIC"

 Lesson 4: General Control and Board Management  36

Question: What is the phraseology to disapprove a pilot request?



GENERAL CONTROL (CONT'D)

Knowledge Check

Knowledge Check

When should you transfer radio communications?

- A. Before the aircraft transitions the first NAVAID in the receiving controller's area
- B. Before the aircraft crosses an imaginary line 10 miles or 2 minutes, whichever is farther, from the next controller's area
- C. Before an aircraft enters the receiving controller's area of jurisdiction

Lesson 4: General Control and Board Management37

Question: When should you transfer radio communications?

ACTIVITY: BOARD MANAGEMENT DISCUSSION

Activity: Board Management Discussion

- **Purpose**

- Review procedures for board management, such as:

- Sequencing

- Fix posting

- Local strip marking

- **Materials**

- None

- **Directions**

- This activity takes approximately 30 minutes to complete.

- Instructor will discuss board management procedures.



Lesson 4: General Control and Board Management

38

Purpose

Review procedures for board management, such as:

- ⦿ Sequencing
- ⦿ Fix posting
- ⦿ Local strip marking

Materials

- ⦿ None

Directions

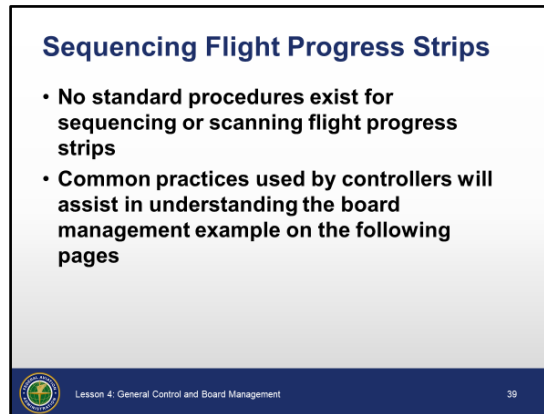
This activity takes approximately 30 minutes to complete. Instructor will discuss board management procedures.

ACTIVITY: BOARD MANAGEMENT DISCUSSION

(CONT'D)

Sequencing Flight Progress Strips

JO 7210.3, par.
6-2-2,e,4



No standard procedures exist for sequencing or scanning flight progress strips.

Common practices used by controllers will assist in understanding the board management example on the following pages.

A sector may have more than one fix posting. It is common practice to sequence strips by fix posting and then by time, with earliest fix estimate on bottom.

It is common practice to scan flight progress strips for:

- Proper sequence
- Conflicts
- Inappropriate Altitude for Direction of Flight (IAFDof)
- Arrivals
- MEA violations
- Route errors
- Coordination functions
- Type aircraft
- Number of aircraft, if more than one
- Category, if aircraft is heavy
- Non-DME
- Speed

NOTE: Each sector will have information specifying flight progress strips to be posted and the location to place them.

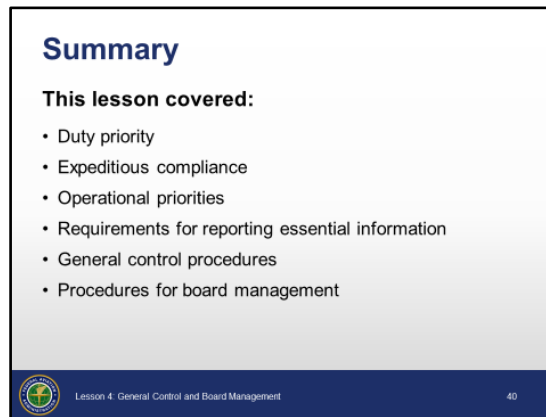
ACTIVITY: BOARD MANAGEMENT DISCUSSION (CONT'D)

Fix/Time
Sequencing
(Cont'd)

N731NY P210/G T185 G191 45 814 12	HON 1731	17 ⁵⁰ 50 ATY	110✓	DWN →	KMSN. /. HON V78 DWN KLJF	3745
N528ST C172/G T110 G117 45 814 12	ABR 1702	17 ³² 32 ATY	70✓	DWN →	KHZE. /. ABR V24 ATY V78 EAU KEAU	4054
N40GB C340/G T160 G174 45 814 12	HON 1704	17 ²⁵ 25 ATY	70✓	DWN →	KPIR. /. HON V78 EAU KEAU	3115
N818DB BE36/G T165 G173 45 814 12	FAR 1641	17 ¹⁸ 18 ATY	110✓	FSD ↓	KGFK. /. FAR V181 YKN KYKN	1534
N43911 PA46/G T170 G184 45 814 12	ABR 1654	17 ¹² 12 ATY	90✓	RWF →	KBIS. /. ABR V24 FALAR KCHU	3461
N941Q BE33/G T125 G131 45 814 12	HON 1638	17 ⁰⁵ 05 ATY	90✓	DWN →	KISD. /. HON V78 DWN KLJF	1421

CONCLUSION

Lesson Summary



Summary

- ⊙ Duty priority
 - Separate traffic
 - Issue safety alerts
- ⊙ Expeditious compliance
 - Safety alerts
 - Imminent situation (use “Immediately”)
 - Avoidance of imminent situation (use “Expedite”)
- ⊙ Operational priorities
 - Aircraft in distress
 - Priority handling
 - First come, first served
- ⊙ Requirements for reporting essential information
 - Report, as soon as possible, any information concerning components of the NAS or flight conditions that may adversely affect air safety

Continued on next page

CONCLUSION (CONT'D)

Lesson Summary (Cont'd)

- ⊙ General control procedures
 - Use radar and/or nonradar separation as the situation dictates
 - Coordinate use of airspace
 - Obtain approval before entering another controller's area
 - Transfer communications prior to boundary
 - Flight data requirements for formation flights
 - Control the flight as one aircraft
 - Ensure the proper flight plan amendments are made if aircraft join/depart the flight
 - ⊙ Procedures for board management
-