

**ORDER**

**BIRMINGHAM TOWER  
BHM ATCT**

**BHM 7110.65C**

**Effective Date:**  
April 10, 2011



**BHM 7110.65C**

**STANDARD OPERATING PROCEDURES (SOP)**

April 10, 2011

## FOREWORD

This Order prescribes standard operating procedures for use by persons providing air traffic control services at Birmingham (BHM) Airport Traffic Control Tower (ATCT) on the VATSIM network. Controllers are required to be familiar with the provisions of the Order and to exercise their best judgment if they encounter situations that are not covered.

A handwritten signature in black ink, appearing to read 'William Lewis', written in a cursive style.

William Lewis  
Air Traffic Manager

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## **CHAPTER 1. GENERAL**

### **Section 1. INTRODUCTION**

#### **1-1-1 PURPOSE.**

This Order establishes standard operating procedures for use by persons providing air traffic control services at Birmingham (BHM) Airport Traffic Control Tower (ATCT) on the VATSIM network. This Order is designed to supplement national and regional directives.

#### **1-1-2 AUDIENCE.**

This order applies to all vZTL Air Traffic Control Specialist and vZTL Visiting Air Traffic Control Specialist manning Birmingham (BHM) Airport Traffic Control Tower (ATCT) positions.

#### **1-1-3 DISTRIBUTION.**

This Order is available in the vZTL Document Library

#### **1-1-4 CANCELLATION.**

This order cancels BHM 7110.65 dated prior to 10 April 2011.

#### **1-1-5 REVISIONS.**

Changes to this document are recorded and a copy may request from facility staff.

#### **1-1-6 EFFECTIVE DATE.**

This order is effective as of 10 April 2011.

#### **1-1-7 ABBREVIATIONS/ACRONYMS/IDENTIFIERS**

As used in this document, the following abbreviations/acronyms/identifiers have the meaning indicated (See APPENDIX A. TERMS, ABBREVIATIONS, ACRONYMS AND IDENTIFIERS TERM.).

## Section 2. Equipment

### 1-2-1 OPERATIONAL POSITIONS AND ASSOCIATED FREQUENCIES.

POSITION	FREQUENCY	CHANNEL
<b>ATCT</b>		
Clearance Delivery (CD)	125.67	BHM-CD
Ground Control (GC)	121.70	BHM-GC
Local Control (LC)	119.90	BHM-LC
<b>TRACON</b>		
<b>Radar South (RS)</b>	<b>123.80</b>	<b>BHM-S</b>
Radar North (RN)	127.67	BHM-N
Radar East (RE)	120.50	BHM-E
Radar West (RW)	120.15	BHM-W

### 1-2-2 VOICE SERVERS.

BHM ATCT controllers shall utilize the liveatc.net as the primary voice servers at RW.LIVEATC.NET. VOICE.AIRCHARTS.ORG shall serve as a backup voice server.

### 1-2-3 INFORMATION DISPLAY SYSTEM.

The BHM IDS shall be operational any time BHM ATCT is staffed. The IDS may be discontinued when only a single controller is staffing BHM ATCT and vZTL is not staffed.

## Section 3. GENERAL AIRSPACE

### 1-3-1 AIRSPACE JURISDICTION.

The BHM ATCT is delegated that airspace from the surface up to and including 10,000' (see FIG 4-1-1 and FIG 4-1-2 for specific BHM airspace delegation).

### 1-3-2 CLASS C AIRSPACE.

Notify the FLM/CIC of any observed Class C airspace violations. Coordinate with and/or assist all other positions if the aircraft is observed entering the airspace.

### 1-3-4 MINIMUM VECTORING ALTITUDE CHARTS.

Charts are depicted for operations utilizing the Birmingham radar systems.

FIG 1-3-1: BIRMINGHAM TRACON AIRSPACE CHART

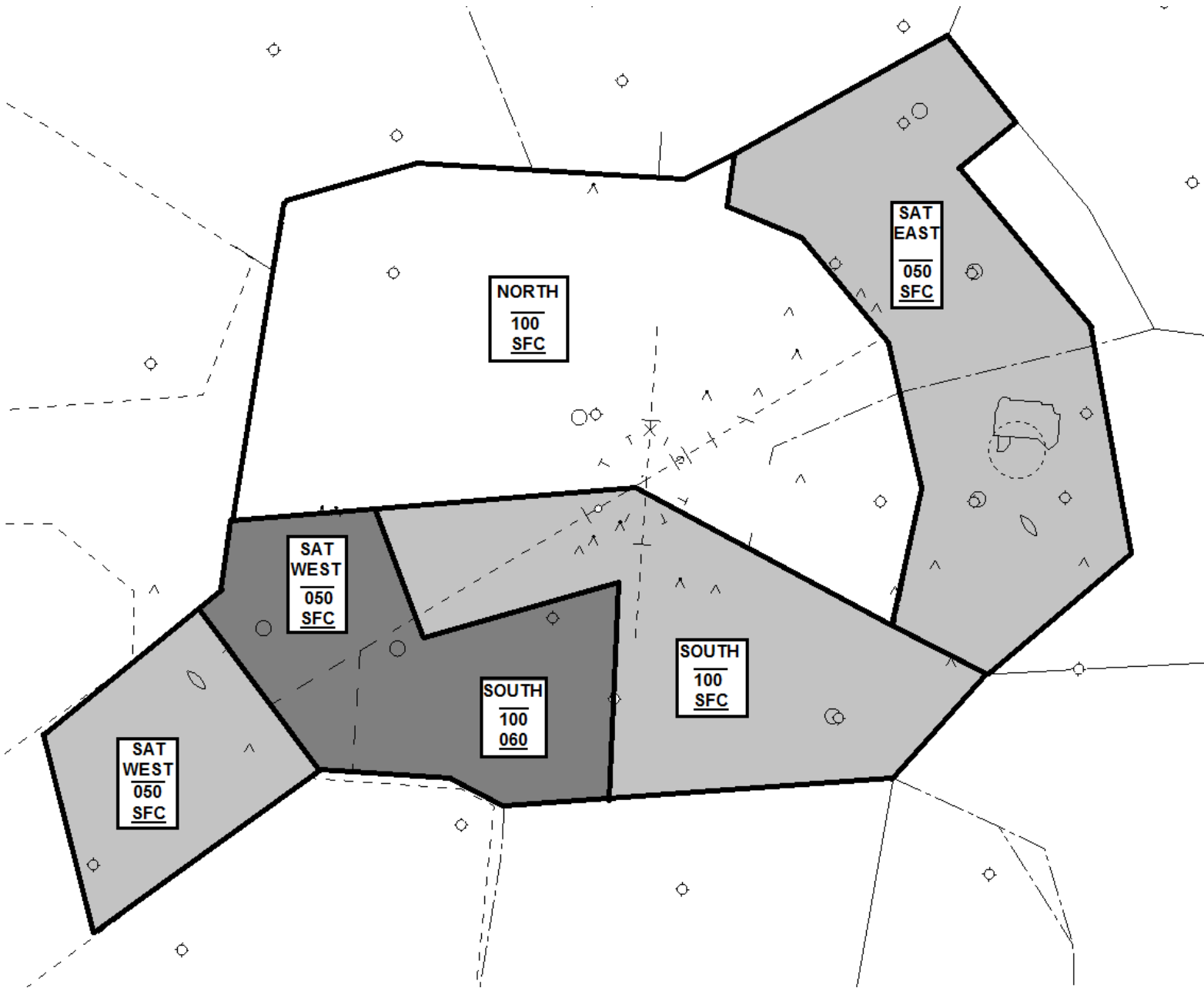
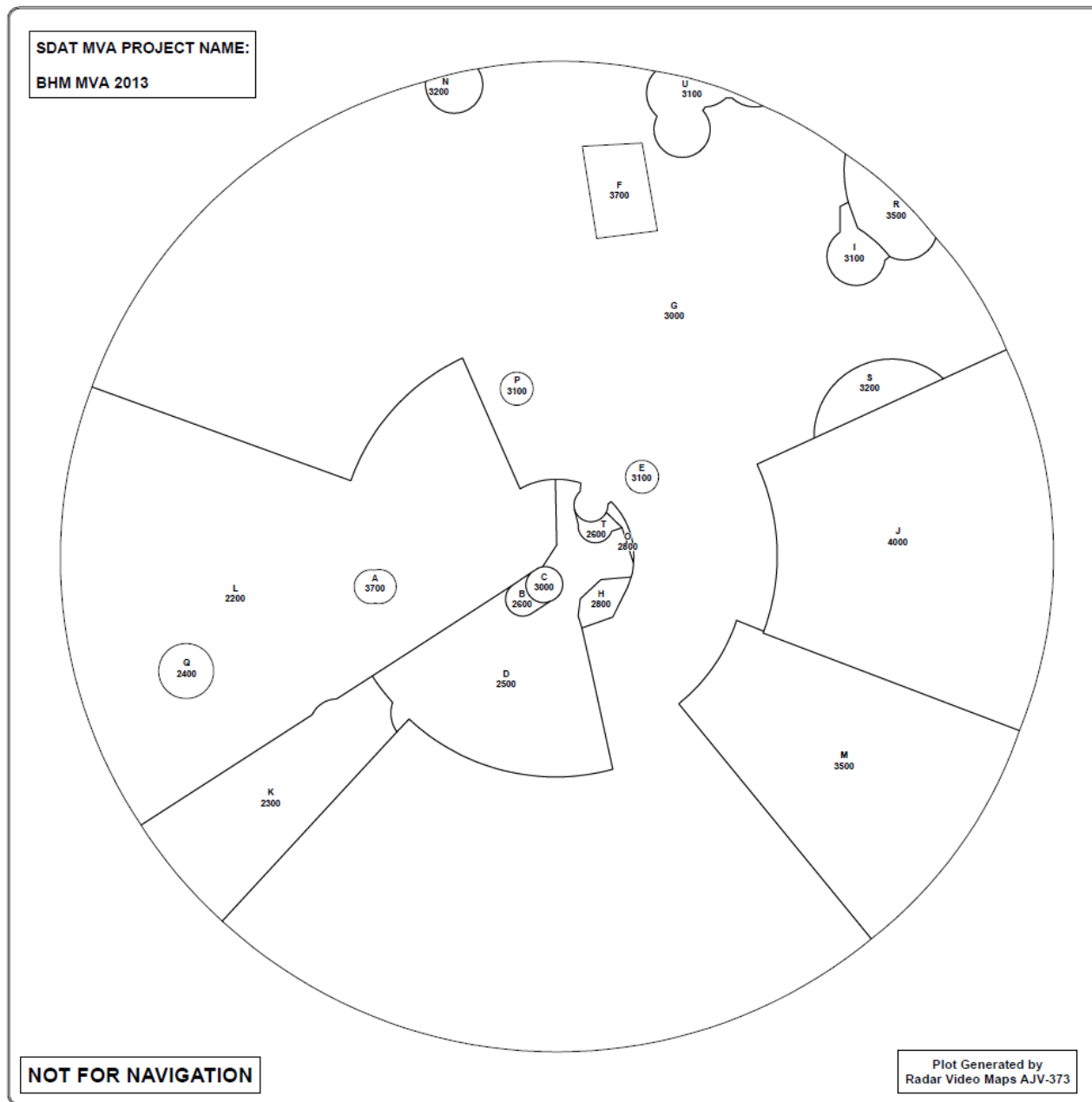




FIG 1-3-2: MVA CHART - BHM ASR





**Section 4. DUTY FAMILIARIZATION AND TRANSFER OF POSITION RESPONSIBILITY**

**1-4-1 INTRODUCTION.**

Essential operational information is contained in the Facility Directives and Announcements Forum. Acknowledge of having read by initialing each item as outlined in the forum.

**1-4-2 POSITION RELIEF BRIEFING.**

Conduct a position relief briefing and transfer of position responsibility in accordance with FAAO 7110.65 using the appropriate position relief checklist. The relieving controller shall review the information contained on the Tower IDS page prior to accepting a position relief briefing. When assuming responsibility for the position, the relieving controller shall make a statement to the controller being relieved that position responsibility has been assumed.

In addition, the relieved controller must remain plugged in for at least two minutes after being relieved from an operational position to heighten awareness and ensure both controllers have the opportunity to exchange all pertinent information.

**Section 5. FLIGHT PROGRESS STRIPS**

**1-5-1 FLIGHT PROGRESS STRIP.**

1		5	8	12	14	15	16
2		6	9		17	18	19
3	4	7	10	13	20	21	22
			11				

**1-5-2 FLIGHT DATA STRIP MARKING**

Flight Data shall be responsible for receiving the initial flight strip for departing aircraft and pass to the appropriate control position.

BLOCK	INFORMATION RECORDED
12	Filed or amended route in accordance with preferred routings, letters of agreement, or coordinated TMU or SWAP routings.
13	Clearance routing type when routing has been amended.  ++FRC++ - Full Route Clearance ++FRC XXX++ - Full Route Clearance to a particular routing waypoint. Substitute XXX with the appropriate waypoint. ++EDCT XXXXz++ - EDCT time when issued by ZTL
20	Departure control ARTS position ID
21	"HOLD" when a departure release is required

**1-5-3 CLEARANCE DELIVERY STRIP MARKING.**

BLOCK	INFORMATION RECORDED
14	Letter of reported ATIS if initial radio communication is established
17	"X" to indicate a correct clearance read back
11	"FF" if a VFR departure is requesting Flight Following

**1-5-4 GROUND CONTROL STRIP MARKING.**

BLOCK	INFORMATION RECORDED
14	Letter of reported ATIS if initial radio communication is established
19	Runway assignment if other than the normally assigned departure runway.
18	The Taxiway designator for intersection departures.

**1-5-5 LOCAL CONTROL STRIP MARKING.**

BLOCK	INFORMATION RECORDED
21	Initial departure instructions. H### when a heading is assigned or appropriate departure waypoint.
22	Departure time. Minutes only
16	"*" When a departure release has been obtained for aircraft with a EDCT time in box 13
11	Arrival parking location.
	T Terminal
	W West FBO
	E East FBO
	C Cargo Ramp

**1-5-6 EXAMPLE FLIGHT PROGRESS STRIP.**

DAL2525	2056	KBHM KATL	KYLEE..LGC.WARRR1	K		
A319/L	250			X	D	20
429 I	250				H200	56
			<b>++EDTC 1950z ++</b>			

**Section 6. GENERAL OPERATING PROCEDURES****1-6-1 TRAFFIC MANAGEMENT.**

Comply with Traffic Management initiatives coordinated with ZTL or CIC. Specific traffic management initiatives will be provided by the FLM/TMC and shall be displayed on the IDS Tower page.

Do not change routes or proposal times for aircraft participating in Traffic Management programs without prior coordination with the CIC/TMU.

**1-6-2 RUNWAY USE OPERATIONS.**

Birmingham airports operate on two primary runway use plans defined as North or South operations as defined in the airports runway use plan.

**1-6-3 EMERGENCY RUNWAY USEAGE.**

Runway 6 / 24 shall be used as the primary arrival runway for emergency aircraft when practical.

## CHAPTER 2. CLEARANCE DELIVERY

### Section 1. INTRODUCTION

#### 2-1-1 POSITIONS

POSITION	NETWORK CALLSIGN	FREQUENCY
ATIS	KBHM_ATIS	119.400
Flight Data (FD)	BHM_#_DEL	N/A
Clearance Delivery (CD)	BHM_#_DEL	125.670

#### 2-1-2 COMBINING/DECOMBINING POSITIONS.

FD combines to and de-combines from CD. CD combines to and de-combines from GC.

### Section 2. FLIGHT DATA

#### 2-2-1 POSITION RESPONSIBILITIES.

Flight Data's Primary responsibility is to reduce the workload of the entire air traffic control tower by performing the following functions.

#### 2-2-2 AIRPORT TERMINAL INFORMATION SYSTEM.

FD shall prepare and maintain the BHM ATIS. The ATIS code shall be verbally passed to all BHM Controllers.

Prior to being transmitted, review the ATIS recording for accuracy. The voice/text should be cross-checked to ensure the message content is the same.

After the ATIS is monitored for accuracy, ensure that the ATIS is broadcasting.

#### 2-2-3 WEATHER BRIEFINGS.

FD shall monitor local weather conditions and prepare a weather briefing to be issued to other controllers prior to assuming a control position. FD shall also pass any hazardous weather information to the CIC and other ATCT control positions.

#### 2-2-4 INFORMATION DISPLAY SYSTEM

FD is responsible for maintaining the IDS system as well as filing PIREP reports received from Local and Radar controllers.

### Section 3. CLEARANCE DELIVERY

#### 2-3-1 POSITION RESPONSIBILITIES.

- a. Duties and responsibilities are in accordance with FAAO 7110.65, Tower Terminal Position Responsibilities.
- b. Issue clearances or routing changes to individual aircraft, as required complying with preferred routings, letters of agreement, traffic management initiatives and/or weather avoidance.
- c. Verbally forward flight plan information to aircraft using radio equipment.

#### 2-3-2 FLIGHT STRIP PROCESSING

- a. CD shall initially receive IFR departure flight progress strips.
- b. Review IFR flight progress strips for complete and correct information and amend the aircrafts routing as necessary to ensure the aircrafts routing meets preferred routings, letters of agreement, and coordinated TMU or SWAP routing requirements.
- c. Place the appropriate flight strip markings.

**NOTE** – Any questionable clearances should be presented to the FLM/CIC or TMC for clarification.

#### 2-3-2 VFR INSTRUCTIONS.

- a. CD shall create a flight progress strip for all aircraft requesting a VFR departure out of the Chattanooga Class C airspace. This flight progress strip must include all known information.
  1. Minimum VFR flight progress strip information
    - i. Callsign or Tail Number.
    - ii. Aircraft Type (Equipment suffix optional).
    - iii. Direction of flight.
    - iv. Beacon code.
    - v. Appropriate strip markings outlined in 1-5-3
- b. Issue the appropriate frequency, and beacon code.

#### 2-3-3 IFR CLEARANCES.

Verbally issue IFR clearances in accordance with the FAAO 7110.65. Assign IFR Aircraft an initial attitude of 4,000 feet or lower filed altitude. Ensure altitudes are at or above published MVAs and MEAs.

#### 2-3-4 EDCT INFORMATION.

Inform aircraft of any departure delays or EDTC information affecting the aircraft.

## CHAPTER 3. GROUND CONTROL

### Section 1. INTRODUCTION

#### 3-1-1 POSITIONS.

POSITION	NETWORK CALLSIGN	FREQUENCY
Ground Control (GC)	BHM_#_GND	121.700

#### 3-1-2 COMBINING/DECOMBINING POSITIONS.

GC combines to and de-combines from LC

#### 3-1-3 AREA OF JURISDICTION.

GC is responsible for all open movement areas except for active runways.

### Section 2. GROUND CONTROL

#### 3-3-1 POSITION RESPONSIBILITIES.

- a. Duties and responsibilities are in accordance with FAAO 7110.65, Terminal Tower Team Position Responsibilities.
- b. Provide service to arriving/departing aircraft and vehicular traffic operating on the movement areas, in accordance with "APPENDIX F. MOVEMENT/NON-MOVEMENT AREAS".

#### 3-1-4 RECEPTION OF ATIS.

Ensure departing aircraft receive the current departure ATIS prior to taxi. Scratch the reported ATIS code in box 14.

#### 3-3-3 DETAILED TAXI INSTRUCTIONS.

Detailed taxi instructions are required for all aircraft/vehicle movement. If the aircraft/vehicle states the route in their request, Ground Control may authorize the movement as requested.

**3-3-7 DEPARTURE SEQUENCING**

- a. Ground Controllers need to establish a departure queue that assists the LC in maximizing the departure flow and reducing departure delays.
- b. Once a demand is established at the departure runway, develop the departure queue by alternating departure gates/exit fixes. Alternating departure gates/exit fixes may not be necessary if wake turbulence separation will achieve the same result.
- c. Ensure the departure queue meets Traffic Management initiatives.

**3-3-8 ARRIVAL TAXI METHODS.**

- a. Ensure appropriate runway exits are available to aircraft and there are no ATC restrictions to continued movement beyond the applicable holding position marking. Advise LC if appropriate runway exits are not available.

**3-3-12 COORDINATION PROCEDURES.**

GC shall coordinate with ZTL TMU or CC when an aircraft requires a release.

## CHAPTER 4. LOCAL CONTROL

### Section 1. INTRODUCTION

#### 4-1-1 POSITIONS.

POSITION	NETWORK CALLSIGN	FREQUENCY
Local Control	BHM_#_TWR	119.900

#### 4-1-2 COMBINING/DECOMBINING POSITIONS.

LC combines to and de-combines from RS

#### 4-1-3 AREA OF JURISDICTION.

- a. LC is responsible for visual separation:
  1. At the outer marker or five (5) miles from the airport for VFR operations/visual approaches.
  2. At one (1) mile from the runway for aircraft conducting instrument approach procedures, unless otherwise coordinated. LC may, after coordination, assume visual separation responsibilities inside the Outer Marker when weather conditions permit.

### Section 2. POSITION OPERATING PROCEDURES

#### 3-3-1 POSITION RESPONSIBILITIES.

Duties and responsibilities are in accordance with FAAO 7110.65, Terminal Tower Team Position Responsibilities.



**4-2-1 MANAGING FLIGHT STRIPS.**

- a. Departure Flight Progress Strips:
  1. Maintain the order of aircraft cleared for takeoff by retaining the flight progress strip in the sequence received from Ground Control.
  2. Pass the departure strip to the appropriate Radar Controller when the aircraft is cleared for takeoff.
  
- b. Arrival Flight Progress Strips:
  1. A Flight Progress strip does not need to be obtained for an arrival if the following conditions are met.
    - i. The aircraft is only intending on performing a full stop landing.
    - ii. The aircraft is has been sequenced on a final approach by Radar.
    - iii. Full data block information is displayed on Tower Radar Displays.
  
  2. Arrival parking locations shall be verbally passed to GC if received.

**4-2-2 MANAGING LOCAL CONTROL TRAFFIC**

- a. Runway 6/24 shall normally be used for by all turbojet and 4-engine propeller aircraft
  
- b. Runway 18/36 shall not normally be used by Heavy aircraft and controllers are cautioned from using 18/36 for large aircraft.

**NOTE 1** – LC shall coordinate with the appropriate GC on all helicopter traffic operating in the vicinity of, or flying over, movement areas designated to GC if the helicopter is less than 500 feet AGL.

## CHAPTER 5. TRACON

### Section 1. INTRODUCTION

#### 5-1-1 POSITIONS.

POSITION	NETWORK CALLSIGN	FREQUENCY
<b>Radar South</b>	<b>BHM_#_APP</b>	<b>123.800</b>
Radar North	BHM_#_APP	127.670
Radar East	BHM_#_APP	120.500
Radar West	BHM_#_APP	120.150

#### 5-1-2 COMBINING/DECOMBINING POSITIONS.

RN combines to and de-combines from RS.

RE combines to and de-combines from RN

RW combines to and de-combines from RS.

#### 5-1-3 AREA OF JURISDICTION.

The BHM TRACON is delegated that airspace from the surface up to and including 10,000' (see FIG 1-3-1 and FIG 1-3-2 for specific BHM airspace delegation.

### Section 2. POSITION OPERATING PROCEDURES

#### 5-2-1 POSITION RESPONSIBILITIES.

Duties and responsibilities are in accordance with FAAO 7110.65, Terminal Radar/Nonradar Team Position Responsibilities.

#### 5-2-2 APPROACHES IN USE.

Determine the appropriate approaches to use at Birmingham. Disperse this information to the Tower Cab to be utilized in the airport's ATIS.

#### 5-2-3 CONVERGING RUNWAY DISPLAY AID (CRDA)

The CRDA shall be used anytime simultaneous converging approaches are in use.

**- APPENDIX -**

**APPENDIX A. TERMS, ABBREVIATIONS, ACRONYMS AND IDENTIFIERS TERM.**

<b>ACRONYM or IDENTIFIER MEANING</b>			
<b>A80</b>	Atlanta Large TRACON	<b>AAR</b>	Airport Arrival Rate
<b>ADR</b>	Airport Departure Rate	<b>AOA</b>	At Or Above
<b>AOB</b>	At Or Below	<b>APREQ</b>	Approval Request
<b>ARTCC</b>	Air Route Traffic Control Center	<b>ASDE</b>	Airport Surface Detection Equipment
<b>ASR</b>	Airport Surveillance Radar	<b>ATCT</b>	Airport Traffic Control Tower
<b>ATIS</b>	Airport Terminal Information System	<b>ATL</b>	Hartsfield-Jackson Atlanta International
<b>CAT</b>	Category of ILS	<b>CC</b>	Cab Coordinator
<b>CD</b>	Clearance Delivery	<b>CD-1</b>	Clearance Delivery One
<b>CD-2</b>	Clearance Delivery Two	<b>CIC</b>	Controller-In-Charge
<b>DA (DH)</b>	Decision Altitude (Decision Height)	<b>DME</b>	Distance Measuring Equipment
<b>DN</b>	Delta North	<b>EDCT</b>	Expect Departure Clearance Time
<b>ETA</b>	Estimated Time of Arrival	<b>ETD</b>	Estimated Time of Departure
<b>FAAO</b>	Federal Aviation Administration Order	<b>FDB</b>	Full Data Block
<b>FLM</b>	Front Line Manager	<b>FRC</b>	Full Route Clearance
<b>GC</b>	Ground Control	<b>GC-C</b>	Ground Control Center
<b>GC-N</b>	Ground Control North	<b>GC-S</b>	Ground Control South
<b>GDP</b>	Ground Delay Program	<b>GM</b>	Ground Meter
<b>ICAO</b>	International Civil Aviation Organization	<b>IDS</b>	Information Display System
<b>ILS</b>	Instrument Landing System	<b>LA</b>	Low Approach
<b>LA/CA</b>	Low Altitude Alert/Conflict Alert	<b>LAHSO</b>	Land and Hold Short Operations
<b>LAT</b>	Lockheed Air Terminal	<b>LC</b>	Local Control
<b>LC-1</b>	Local Control One	<b>LC-2</b>	Local Control Two
<b>LC-3</b>	Local Control Three	<b>LOA</b>	Letter of Agreement
<b>LUAW</b>	Line Up and Wait	<b>MA</b>	Missed Approach
<b>MIT</b>	Miles In Trail	<b>MM</b>	Middle Marker
<b>MON</b>	Final Radar Monitor (A80)	<b>MVA</b>	Minimum Vectoring Altitude
<b>NAS</b>	National Airspace System	<b>NAVAID</b>	Navigational Aid
<b>NAV/COMM</b>	Navigation/Communications	<b>NC</b>	North Cargo
<b>NOTAM</b>	Notice to Airmen	<b>OJT</b>	On-The-Job Training
<b>OJTI</b>	On The Job Training Instructor	<b>OTS</b>	Out of Service
<b>PDAR</b>	Preferential Departure/Arrival Route	<b>PDC</b>	Pre-Departure Clearance
<b>PDR</b>	Preferential Departure Route	<b>PIREP</b>	Pilot Report
<b>PRM</b>	Precision Runway Monitor (A80)	<b>RACD</b>	Remote ARTS Color Display
<b>RDVS</b>	Rapid Deployment Voice Switch	<b>RVR</b>	Runway Visual Range
<b>RWY</b>	Runway	<b>SAT</b>	Satellite Sector (A80)
<b>SC</b>	South Cargo	<b>SFC</b>	Surface
<b>SIGMET</b>	Significant Meteorological Information	<b>SIA</b>	Status Information Area
<b>SILS</b>	Simultaneous ILS Approaches	<b>SOP</b>	Standard Operating Procedures
<b>STR</b>	Standard Taxi Route	<b>SVA</b>	Simultaneous Visual Approaches
<b>SVFR</b>	Special Visual Flight Rules	<b>TMC</b>	Traffic Management Coordinator
<b>TMU</b>	Traffic Management Unit	<b>TRACON</b>	Terminal Radar Approach Control
<b>UHF</b>	Ultra High Frequency	<b>VA</b>	Visual Approach
<b>VFR</b>	Visual Flight Rules	<b>VR</b>	Visual Approach Radar Separation required
<b>VS</b>	Visual Separation	<b>ZTL</b>	Atlanta Air Route Traffic Control Center

**APPENDIX B. ATIS MESSAGE FORMAT**

Birmingham Tower Information \_\_\_\_\_. \_\_\_\_\_ ZULU.

Wind \_\_\_\_\_. Visibility \_\_\_\_\_. (Sky Conditions). Temperature\_\_\_\_\_, Dew Point \_\_\_\_\_, Altimeter \_\_\_\_\_.

\_\_\_\_\_ Approach(s) in use, Landing and Departing runway(s) \_\_\_\_\_

Read back all hold short instructions. VFR Aircraft state direction of flight.

Notice to Airmen \_\_\_\_\_. Advise on initial contact you have information \_\_\_\_\_.

Birmingham Tower Information %id%. %time%. Wind %wind%. Visibility %vis%.  
%precip% %clouds%. Temperature %temp%. Dew point %dew% altimeter %altim%  
\_\_\_ Approach in use. %runways%  
Read back all hold short instructions. VFR Aircraft state direction of flight.  
Advise on initial contact you have %id%.

## APPENDIX C-1. POSITION RELIEF CHECKLIST

**Flight Data and Clearance Delivery**

## POSITION RELIEF CHECKLIST

- 1) **Status Information Areas:** Applicable IDS and PIREP page, etc.
- 2) **Equipment Status:** Radios (proper frequencies (de)selected), Visibility Range and Center, ATIS, RADAR(s), etc.
- 3) **Staffing:** Adjacent and inter-facility staffing. A80 Departure Split.
- 4) **Airport Conditions/Status:** Airspace configuration, Runway(s) in use, Runway and taxiway closures, etc.
- 5) **Airport Activities:** Gate hold procedures, Braking action reports, etc.
- 6) **Weather:** Trends, Windshear, ATIS, PIREPs, SIGMETs, AIRMETs, etc.
- 7) **Flow Control:** Special programs, Reportable ATL delays, etc.
- 8) **Special Activities:** Events, Evaluations, Emergency, etc.
- 9) **Special Instructions:** Coordination, CIC instructions, etc.
- 10) **Training in Progress.**
- 11) **Traffic information:**
  - a) Aircraft standing by for clearance or TMU release, etc.
  - b) Coordination agreements with other positions.
  - c) Ground Stop or Ground Delay Program information.

**NOTE-** There must be at least a 4 minute overlap during each position relief briefing as follows: A minimum of 2 minutes prior to receiving the briefing and a minimum of 2 minutes at the end of the briefing. The relieving specialist and the specialist being relieved are responsible for the completeness and accuracy of the position relief briefing.

## APPENDIX C-2. GC AND LC POSITION RELIEF CHECKLIST

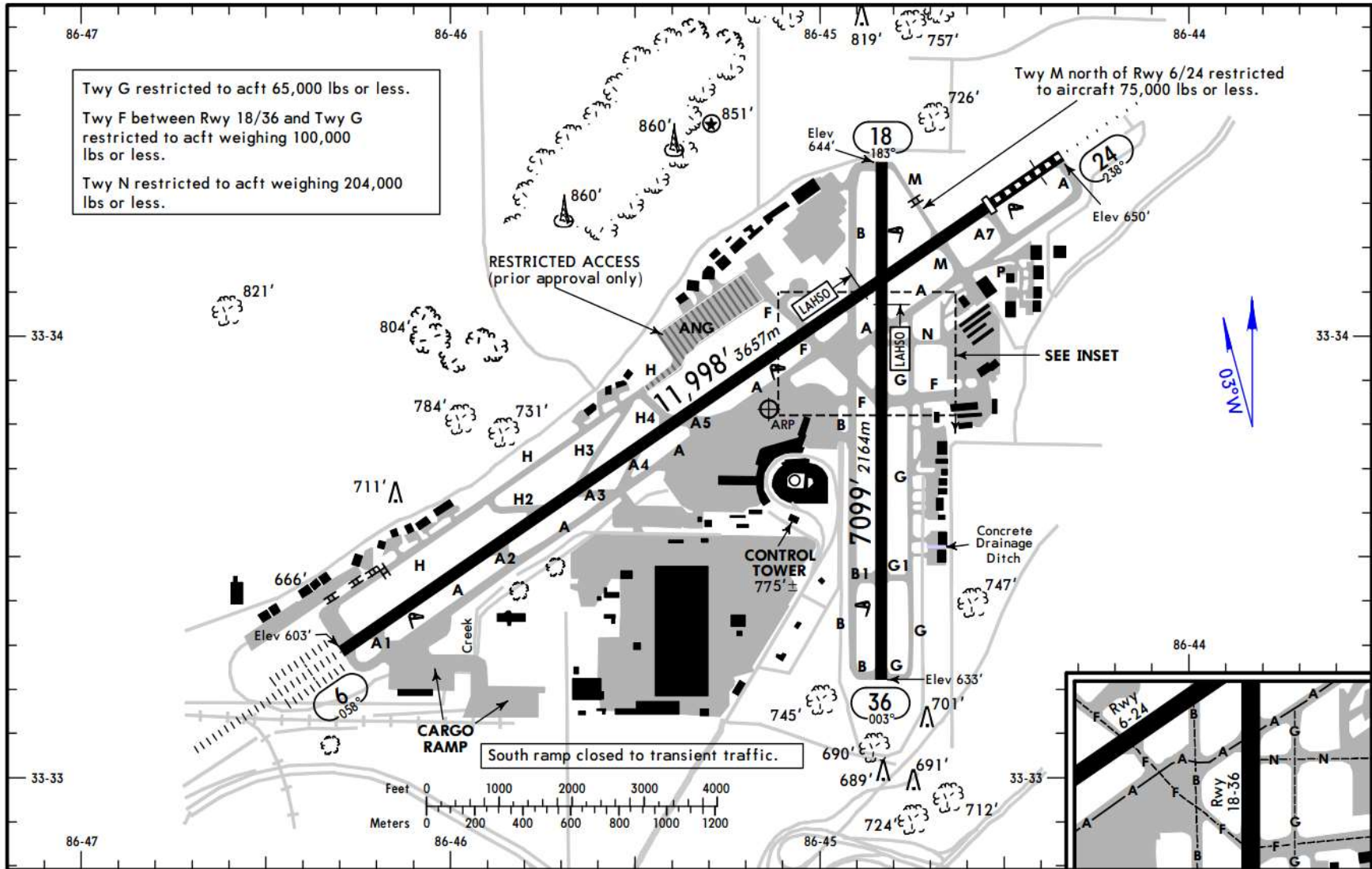
## Ground and Local Control

### POSITION RELIEF CHECKLIST

- 1) **Status Information Areas:** Applicable IDS and PIREP page, etc.
- 2) **Equipment Status:** Radios (proper frequencies (de)selected), Visibility Range and Center, ATIS, RADAR(s), etc.
- 3) **Staffing:** Adjacent and inter-facility staffing.
- 4) **Airport Conditions/Status:** Airspace configuration, Runway(s) in use, Runway and taxiway closures, Taxi pattern (Taxi Easy, Correct or Quiet), etc.
- 5) **Airport Activities:** Gate hold procedures, Braking Action reports, etc.
- 6) **Weather:** Trends, Windshear, ATIS, PIREP, SIGMETs, AIRMETs, etc.
- 7) **Flow Control:** Special programs, Reportable ATL delays, etc.
- 8) **Special Activities:** Events, Evaluations, Emergency, etc.
- 9) **Special Instructions:** Coordination, CIC instructions, LUAW, LAHSO, etc.
- 10) **Training in Progress.**
- 11) **Verbally State Runway Status:** Unavailable, closed or occupied.
- 12) **Traffic Information:**
  - a) Status of each aircraft and/or vehicle.
  - b) Point-outs.
  - c) Primary targets. Non-radar operations. VFR advisory aircraft.
  - d) Aircraft affected by TMU initiatives.
  - e) Coordination agreements with other positions.
  - f) Aircraft holding or standing by for service.

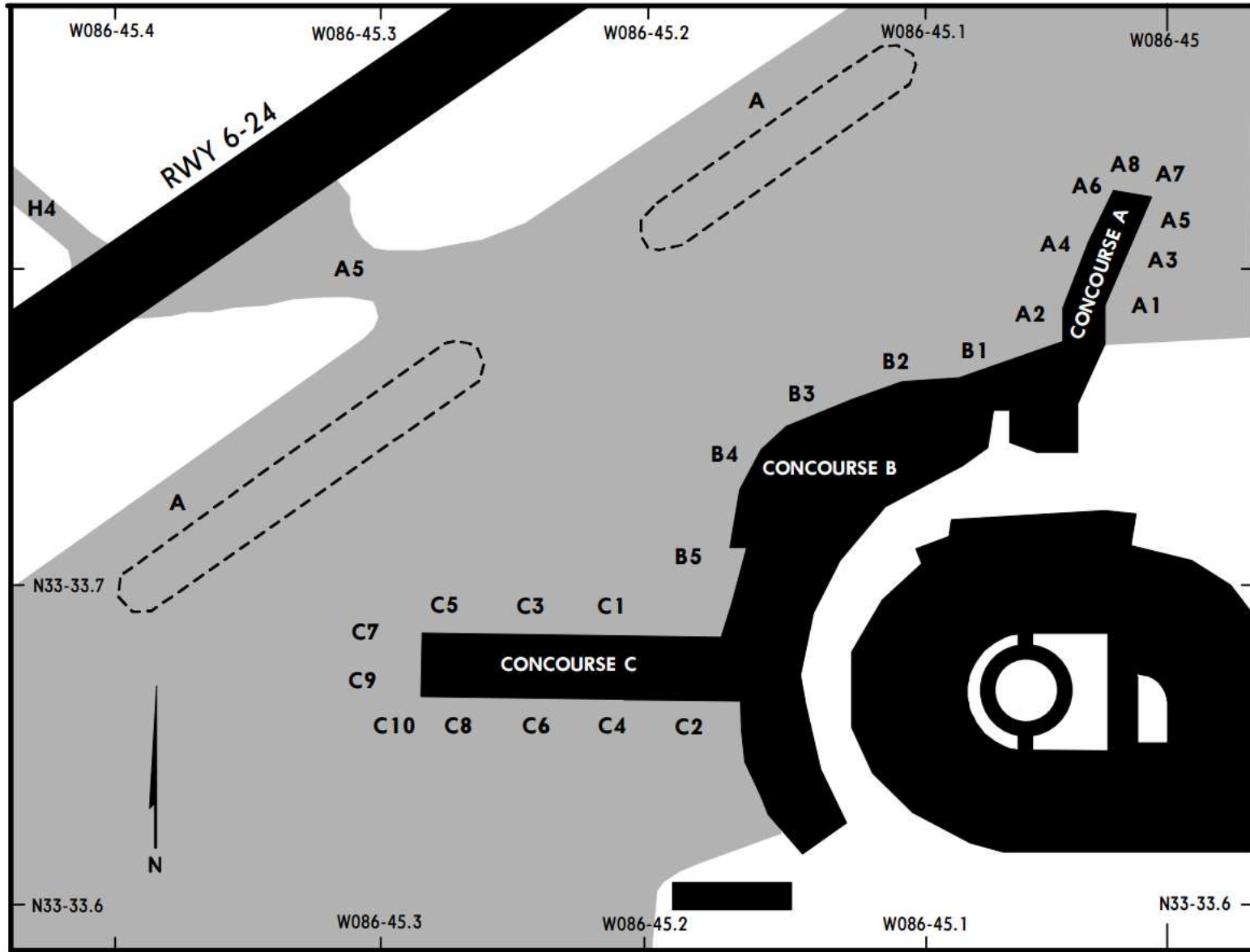
**NOTE-** There must be at least a 4 minute overlap during each position relief briefing as follows: A minimum of 2 minutes prior to receiving the briefing and a minimum of 2 minutes at the end of the briefing. The relieving specialist and the specialist being relieved are responsible for the completeness and accuracy of the position relief briefing.

APPENDIX D. AIRPORT DIAGRAM





APPENDIX E. PARKING GATES





## APPENDIX H. INTERSECTION DEPARTURE LENGTHS

## North Runways

RUNWAY 6		RUNWAY 36	
A/H	11,998	B/G	7099
A1	11,455	B1/G1	5695
A2	9365	F	3285
H2	8680	N	2460
A3/H3	8000	A	2335
A4	7135	RWY 6/24	1595
A5/H4	6375	B/M	0
F	4250		
B	3475		
RWY 36/18	2985		
M	2025		
A7	1260		
A	0		

## South Runways

RUNWAY 24		RUNWAY 18	
A	11,998	B/M	7099
A7	10735	RWY 24/6	5485
M	9975	A	4770
RWY 18/36	9015	N	4615
B	8525	F	3780
F	7745	B1/G1	1385
A5/H4	5625	B/G	0
A4	4865		
A3/H3	4000		
H2	3315		
A2	2630		
A1	545		
A/H	0		