

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
MIAMI	TWO	MIA2.MIA	ONE	09/05/2024	
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

MIAMI INTL:

TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. JETS CLIMB AND MAINTAIN 5000, PROPS AND TURBOPROPS CLIMB AND MAINTAIN 3000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

MIAMI EXECUTIVE:

TAKEOFF RWY 9L: CLIMB ON HEADING 093.31 TO 800 BEFORE TURNING RIGHT, THENCE...

TAKEOFF RWY 9R: CLIMB ON HEADING 093.31 TO 900 BEFORE TURNING RIGHT, THENCE...

TAKEOFF RWY 13: CLIMB ON HEADING 133.34 TO 1400 BEFORE TURNING RIGHT, THENCE...

TAKEOFF RWY 27L: CLIMB ON HEADING 273.32 TO 1400 BEFORE TURNING LEFT, THENCE...

TAKEOFF RWY 27R: CLIMB ON HEADING 273.32 TO 1300 BEFORE TURNING LEFT, THENCE...

TAKEOFF RWY 31: CLIMB ON HEADING 313.35 TO 900 BEFORE TURNING LEFT, THENCE...

...ON TRANSITION, MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

NORTH PERRY:

TAKEOFF RWY 1L: CLIMB ON HEADING 006.34 TO 900 BEFORE TURNING RIGHT, THENCE...

TAKEOFF RWY 1R: CLIMB ON HEADING 006.35 TO 900 BEFORE TURNING RIGHT, THENCE...

TAKEOFF RWY 10L, 10R: CLIMB ON HEADING 096.34 TO 1400 BEFORE TURNING RIGHT, THENCE...

TAKEOFF RWY 19L, 19R: CLIMB ON HEADING 186.34 TO 1300 BEFORE TURNING LEFT, THENCE...

TAKEOFF RWY 28L, 28R: CLIMB ON HEADING 276.34 TO 1000, THENCE...

...ON TRANSITION, MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

MIAMI-OPA LOCKA EXECUTIVE:

TAKEOFF RWY 9L: CLIMB ON HEADING 092.94 TO 1100 BEFORE TURNING NORTH, THENCE...

TAKEOFF RWY 9R: CLIMB ON HEADING 092.96 TO 1000 BEFORE TURNING NORTH, THENCE...

TAKEOFF RWY 12: CLIMB ON HEADING 127.84 TO 600 BEFORE TURNING NORTH, THENCE...

TAKEOFF RWY 27L: CLIMB ON HEADING 272.97 THENCE...

TAKEOFF RWY 27R: CLIMB ON HEADING 272.95 TO 500 BEFORE TURNING NORTH, THENCE...

TAKEOFF RWY 30: CLIMB ON HEADING 307.84, THENCE...

...ON TRANSITION, MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
BEECH	MIA2.BEECH	FLL VOR/DME	BEECH	103.79 (FLL R-104)	42.69	3000	1500	
FREPORT	MIA2.ZFP	DHP VORTAC	TALKY	065.42 (DHP R-065)	46.23	1700	1700	
		TALKY	FOLZZ	065.35 (DHP R-065)	15.22	1900	1200	

QUALITY
28
CHECKED

DP NAME		NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE	
MIAMI		TWO	MIA2.MIA	ONE	09/05/2024		
		FOLZZ	ZFP VOR/DME	068.71 (ZFP R-249)	38.53	3200	1500
FOLZZ	MIA2.FOLZZ	DHP VORTAC	TALKY	065.42 (DHP R-065)	46.23	1700	1700
		TALKY	FOLZZ	065.35 (DHP R-065)	15.22	1900	1200
ALTNN	MIA2.ALTNN	FLL VOR/DME	PERTS	357.58 (FLL R-358)	29.51	2600	2600
		PERTS	ALTNN	357.57 (FLL R-358)	8.77	2600	2600
DORRL	MIA2.DORRL	DHP VORTAC	BOGY	002.70 (DHP R-003)	42.72	3000	1500
		BOGY	DORRL	002.70 (DHP R-003)	11.03	4000	1500
FLMGO	MIA2.FLMGO	DHP VORTAC	ALNZO	348.18 (DHP R-348)	42.57	3000	1400
		ALNZO	FLMGO	348.18 (DHP R-348)	26.57	3000	1500
HURCN	MIA2.HURCN	DHP VORTAC	HURCN	331.70 (DHP R-332)	50.18	3000	1400
BNGOS	MIA2.BNGOS	DHP VORTAC	MRENO	321.27 (DHP R-321)	45.90	2000	1600
		MRENO	BNGOS	321.20 (DHP R-321)	12.31	2000	1500
MAYNR	MIA2.MAYNR	DHP VORTAC	MAYNR	195.94 (DHP R-196)	59.91	2900	2900
GWAVA	MIA2.GWAVA	DHP VORTAC	GWAVA	150.79 (DHP R-151)	38.10	1700	1500
KETLL	MIA2.KETLL	VKZ VOR/DME	KLADA	114.48 (VKZ R-114)	26.32	2100	2100
		KLADA	KETLL	114.48 (VKZ R-114)	23.71	2100	1300

PBN REQUIREMENT NOTES:

EQUIPMENT REQUIREMENT NOTES:

RADAR AND DME REQUIRED.

PROCEDURAL DATA NOTES:

NOTE: TURBOPROPS OPERATE IN A MANNER THAT WILL RESULT IN BEST FORWARD SPEED AND CLIMB RATE.

NOTE: FILE DP IN REMARKS SECTION OF FLIGHT PLAN.

NOTE: SPECIAL INSTRUCTIONS UNLESS OTHERWISE ASSIGNED, USE DEPARTURE FREQUENCY DEPICTED ASSOCIATED WITH THE TRANSITION IN CLEARANCE.

MIAMI INTL NOTE: TURBOJETS ACCELERATE TO 250 KIAS AS RAPIDLY AS FEASIBLE UNTIL REACHING 10,000 MSL, UNLESS REQUESTED BY ATC TO DO OTHERWISE.

TAKEOFF MINIMUMS:

MIAMI INTL:

RWY 26L, 26R, 27, 30: STANDARD.

RWY 8L: STANDARD WITH MINIMUM CLIMB OF 274 FT/NM TO 1400.

RWY 8R: STANDARD WITH MINIMUM CLIMB OF 294 FT/NM TO 1400.

RWY 9: STANDARD WITH MINIMUM CLIMB OF 295 FT/NM TO 1400.

RWY 12: STANDARD WITH MINIMUM CLIMB OF 289 FT/NM TO 1400.



MIAMI EXECUTIVE:
RWY 9L, 9R, 13, 27L, 27R, 31: STANDARD.

NORTH PERRY:
RWY 1L, 1R, 28L, 28R: STANDARD.
RWY 10L, 10R: STANDARD WITH MINIMUM CLIMB OF 420 FT/NM TO 1400.
RWY 19L, 19R: 400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 500.

MIAMI-OPA LOCKA EXECUTIVE:
RWY 9L, 9R, 12, 27L, 27R, 30: STANDARD.

TAKEOFF OBSTACLES NOTES:
SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:
MIAMI INTL:
RWY 8L, 8R: 1049 FT MSL BUILDING 254649.65N/0801106.99W.
RWY 9: 1049 FT MSL BUILDING 254542.37N/0801135.45W.
RWY 12: 1049 FT MSL BUILDING 254542.37N/0801135.45W.

NORTH PERRY:
RWY 10L, 10R: 1049 FT MSL TOWER 255935.28N/0801026.00W.
RWY 19L, 19R: 376 FT MSL BUILDING 255732.11N/0801421.50W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:
MIAMI EXECUTIVE:
RWY 9L, 9R, 13, 27L, 27R, 31: 1849 FT MSL TOWER 253225.39N/0802806.20W.

NORTH PERRY:
RWY 1L, 1R, 10L, 10R, 19L, 19R, 28L, 28R: 1049 FT MSL TOWER 255808.33N/0801319.18W.

MIAMI-OPA LOCKA EXECUTIVE:
RWY 9L, 9R, 12, 27R: 1050 FT MSL ANTENNA 255730.91N/0801243.24W.

MSA:
KMIA: MSA FROM KMIA, 2900
KHWO: MSA FROM KHWO, 2100
KTMB: MSA FROM KTMB, 2900
KOPF: MSA FROM KOPF, 2900

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:
MIAMI INTL - CHART: TOP ALTITUDE: (JETS) 5000/(TURBO-PROPS) 3000.
NORTH PERRY, MIAMI EXECUTIVE, MIAMI-OPA LOCKA EXECUTIVE - CHART: TOP ALTITUDE: AS ASSIGNED BY ATC.
AIRPORT MV: MIA 5W/2000, HWO 6W/2015, OPF 6W/2010, TMB 6W/2010.

AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
KMIA	MIAMI	FL
KTMB	MIAMI	FL

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
MIAMI	TWO	MIA2.MIA	ONE	09/05/2024	
KHWO		HOLLYWOOD			FL
KOPF		MIAMI			FL

COMMUNICATIONS:

MIAMI INTL: CHART: ATIS, CLNC DEL, GND CON, TOWER.

MIAMI EXECUTIVE: CHART: ATIS, CLNC DEL, GND CON, TOWER.

NORTH PERRY: CHART: ATIS, GND CON, TOWER, UNICOM.

MIAMI-OPA LOCKA EXECUTIVE: CHART: ATIS, CLNC DEL, GND CON, TOWER.

ALL AIRPORTS: CHART: MIA DEP CON NORTH FOR BEECH TRANSITIONS.

ALL AIRPORTS: CHART: MIA DEP CON SOUTH FOR GWAVA, KETLL, MAYNR TRANSITIONS.

FIXES AND/OR NAVAIDS:

PBI VORTAC, ZBV VOR/DME

REMARKS:

DO NOT CHART MOCA: DHP VORTAC TO TALKY, FLL VOR/DME TO PERTS, PERTS TO ALTNN, DHP VORTAC TO MRENO, DHP VORTAC TO MAYNR, DHP VORTAC TO GWAVA, VKZ VOR/DME TO KLADA. ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP
(AJF-17) MEMO DATED 07/07/2021, SUBJECT
GUIDANCE FOR PROCEDURAL CHANGES

SIGNATURE

Digitally signed by

ROBERT G HAMILTON

Aug 08, 2024

OFFICE

DATE

DEVELOPED BY

ROBERT HAMILTON (JILL M. SUPPES)

SIGNATURE

Digitally signed by

ROBERT G HAMILTON

Aug 08, 2024

OFFICE

AJV-A433

DATE

07/24/2024

APPROVED BY

ROBERT HAMILTON

SIGNATURE

Digitally signed by

ROBERT G HAMILTON

Aug 08, 2024

OFFICE

AJV-A433

DATE

12/26/2024

TITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMA, MIA DEP CON, MIA ATCT, TMB ATCT, OPF ATCT, HWO ATCT, AMGR.

CHANGES - REASONS:

1. SEPARATED ALL INSTANCES OF COMBINED RUNWAY NUMBER DOCUMENTATION (I.E. FROM "1L/1R" TO "1L, 1R") AND UPDATED ALL RUNWAY DOCUMENTATION INSTANCES FROM "RWYS" TO "RWY"- IAW 8260.46J APPENDIX D 8260-15B DOCUMENTATION EXAMPLES.

2. DP ROUTE DESCRIPTION: AMENDED ALL INSTANCES FOR EXPECT FILED ALTITUDE FROM "TEN (10) MINUTES AFTER DEPARTURE" TO "10 MINUTES AFTER DEPARTURE" - NOT NECESSARY TO SPELL OUT NUMBERS.

3. DP ROUTE DESCRIPTION: UPDATED MIAMI INTL FROM "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. JETS CLIMB AND MAINTAIN 5000, PROPS AND TURBOPROPS CLIMB AND MAINTAIN 3000... ..EXPECT FILED ALTITUDE TEN (10) AFTER DEPARTURE" TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. JETS CLIMB AND MAINTAIN 5000, PROPS AND TURBOPROPS CLIMB AND MAINTAIN 3000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" - VERBIAGE AMENDED IAW 8260.46J APPENDIX D SECTION 2 #2 C.

4. TRANSITION ROUTES: UPDATED TRANSITION CODES FROM "MIA1.BEECH, MIA1.ZFP, MIA1.FOLZZ, MIA1.ALTNN, MIA1.DORRL, MIA1.FLMGO, MIA1.HURON, MIA1.BNGOS, MIA1.MAYNR, MIA1.GWAVA, MIA1.KETLL" TO "MIA2.BEECH, MIA2.ZFP, MIA2.FOLZZ, MIA2.ALTNN, MIA2.DORRL, MIA2.FLMGO, MIA2.HURON, MIA2.BNGOS, MIA2.MAYNR, MIA2.GWAVA, MIA2.KETLL" - IAW 8260.46J PARA 3-1-5.B.

5. FIXES AND/OR NAVAIDS: AMENDED ZBV FROM "ZBV VORTAC" TO "ZBV VOR/DME" - TACAN PORTION OF ZBV DECOMMISSIONED.

6. TRANSITION ROUTES: UPDATED KETLL TRANSITION KLADA TO KETLL COURSE FROM "114.48 (VKZ R 114)" TO "114.48 (VZK R-114)" - HYPHEN FOR THE 114 RADIAL NOT PREVIOUSLY DOCUMENTED AS REQUIRED.

7. TAKEOFF MINIMUMS: DELETED ALL INSTANCES OF "GRADIENT" FROM CLIMB GRADIENT INSTRUCTIONS AND UPDATED ALL CLIMB GRADIENT RATE DOCUMENTATION FROM "FT PER NM" TO "FT/ NM" - IAW 8260.46J APPENDIX D SECTION 2 #2 H(3).



8. TAKEOFF MINIMUMS: DELETED WORD "A" FROM MIAMI INTL: RWY 12 AND NORTH PERRY: RWY 10L/10R/19L/19R TAKEOFF MINIMUM VERBIAGE - VERBIAGE CORRECTED IAW 8260.46J APPENDIX D SECTION 2 #2 H(3).
9. CONTROLLING OBSTACLES: MIAMI INTL: SPELLED OUT "BUILDING" AND ADDED "FT" TO EACH "1049 MSL BLDG" OBSTACLE - IAW 8260.46J APPENDIX D SECTION 2 #2 J.
10. CONTROLLING OBSTACLES: NORTH PERRY: ADDED ADDED "MSL" TO 376 FT BUILDING - IAW 8260.46J APPENDIX D SECTION 2 #2 J.
11. MSA: PREFACED EACH AIRPORT MSA WITH THE APPLICABLE AIRPORT ID AND ADDED COMMA BETWEEN AIRPORT ID AND MINIMUM ALITITUDE - IAW 8260.46J APPENDIX D SECTION 2 #2 K(1).
12. COMMUNICATIONS: UPDATED LAST NOTE FROM "ALL AIRPORTS: CHART: MIA DEP CON SOUTH FOR GWAVA, KETLL, MNATE TRANSITIONS" TO "ALL AIRPORTS: CHART: MIA DEP CON SOUTH FOR GWAVA, KETLL, MAYNR TRANSITIONS" - PREVIOUS TYPO FOR MAYNR TRANSITION.
13. REMARKS: ADDED "DHP VORTAC TO MRENO" AND DELETED "KLADA TO KETLL" FROM DO NOT CHART MOCA NOTE - IAW 8260.46J APPENDIX D SECTION 2 #2 D(8).
14. REMARKS: UPDATED FLL TO PERTS PORTION OF DO NOT CHART MOCA NOTE FROM "FLL VORTAC TO PERTS" TO "FLL VOR/DME TO PERTS" - NAVAID TYPE PREVIOUSLY DOCUMENTED AS A VORTAC IN ERROR.
15. REMARKS: ADDED "ABBREVIATED AMENDMENT" - IAW 8260.46J APPENDIX E SECTION 2 #2 Q(3).

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