

**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.

<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SUPERSEDED NUMBER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	NINE	MIA9.MIA	EIGHT	08/12/2021	19 May 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This is a corrected copy of the procedure published in NFDD 062.
** See page 5 for details. **

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 TEN (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...

...MAINTAIN 2000 OR ASSIGNED HIGHER ALTITUDE FOR RADAR VECTORS TO APPROPRIATE TRANSITION. EXPECT FURTHER CLEARANCE TO FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE.

NORTH PERRY:

TAKEOFF RWY 1L: CLIMB ON HEADING 006.34 TO 800 BEFORE TURNING RIGHT, THENCE...
TAKEOFF RWY 1R: CLIMB ON HEADING 006.35 TO 800 BEFORE TURNING RIGHT, THENCE...
TAKEOFF RWYS 10L/R: CLIMB ON HEADING 096.34 TO 1400 BEFORE TURNING RIGHT, THENCE...
TAKEOFF RWYS 19L/R: CLIMB ON HEADING 186.34 TO 1300 BEFORE TURNING LEFT, THENCE...
TAKEOFF RWYS 28L/R: CLIMB ON HEADING 276.34 TO 800, THENCE...

...MAINTAIN 2000 OR ASSIGNED HIGHER ALTITUDE FOR RADAR VECTORS TO APPROPRIATE TRANSITION. EXPECT FURTHER CLEARANCE TO FILED ALTITUDE TEN (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...

...MAINTAIN 2000 OR ASSIGNED HIGHER ALTITUDE FOR RADAR VECTORS TO APPROPRIATE TRANSITION. EXPECT FURTHER CLEARANCE TO FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE.

QUALITY
21
CHECKED

<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	NINE	MIA9.MIA	EIGHT	08/12/2021	19 May 2022

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
BEECH	MIA9.BEECH	FLL VOR/DME	BEECH	103.79 (FLL R-104)	42.69	3000	1500	
FREEPORT	MIA9.ZFP	DHP VORTAC	TALKY	065.42 (DHP R-065)	46.23	1700	1700	
		TALKY	FOLZZ	065.35 (DHP R-065)	15.22	1900	1200	
		FOLZZ	ZFP VOR/DME	068.71 (ZFP R-249)	38.53	3200	1500	
FOLZZ	MIA9.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	MIA9.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	MIA9.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	MIA9.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	MIA9.HURCN	DHP VORTAC	HURCN	331.70 (DHP R-332)	50.18	3000	1400	
BNGOS	MIA9.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	MIA9.MAYNR	DHP VORTAC	MAYNR	195.94 (DHP R-196)	59.91	2900	2900	
GWAVA	MIA9.GWAVA	DHP VORTAC	GWAVA	150.79 (DHP R-151)	38.10	1700	1500	
KETLL	MIA9.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	

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.



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PBN REQUIREMENTS NOTES:**EQUIPMENT REQUIREMENT NOTES:**

RADAR AND DME REQUIRED.

TAKEOFF MINIMUMS:

MIAMI INTL:

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

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

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

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

RWY 12: STANDARD WITH A MINIMUM CLIMB GRADIENT OF 289 FT PER NM TO 1400.

MIAMI EXECUTIVE:

RWYS 9L, 9R, 13, 27L, 27R, 31: STANDARD.

NORTH PERRY:

RWYS 1L, 1R, 28L, 28R: STANDARD.

RWYS 10L/10R: STANDARD WITH A MINIMUM CLIMB OF 420 FT PER NM TO 1400.

RWYS 19L/19R: 400-2 3/4 OR STANDARD WITH A MINIMUM CLIMB OF 220 FT PER NM TO 500.

MIAMI-OPA LOCKA EXECUTIVE:

RWYS 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 MSL BLDG 254649.65N/0801106.99W.

RWY 9: 1049 MSL BLDG 254542.37N/0801135.45W.

RWY 12: 1049 MSL BLDG 254542.37N/0801135.45W (ROUTE DEVELOPMENT).

MIAMI EXECUTIVE:

RWYS 9L, 9R, 13, 27L, 27R, 31: 1849 FT MSL TOWER 253225.39N/0802806.20W (ROUTE DEVELOPMENT).

NORTH PERRY:

RWYS 10L/10R: 1049 FT MSL TOWER 255935.28N/0801026.00W (CLIMB GRADIENT). 1030 FT MSL TOWER 255910.00N/0801136.30W (ROUTE DEVELOPMENT).

RWYS 1L/1R, 28L/28R: 1049 FT MSL TOWER 255808.00N/0801319.00W (ROUTE DEVELOPMENT).

RWYS 19L/19R: 1049 FT TOWER 255808.33N/0801319.18W (ROUTE DEVELOPMENT), 376 FT BUILDING 255732.11N/0801421.50W (CG/CTA).

MIAMI-OPA LOCKA EXECUTIVE:

RWYS 9L/9R, 12, 27R: 1049 FT MSL TOWER 255731.00N/0801244.00W (ROUTE DEVELOPMENT).

MSA:**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

CHART: FLL R-104 AT BEECH, DHP R-065 AT TALKY, DHP R-065 AT FOLZZ, ZFP R-249 AT FOLZZ, FLL R-358 AT ALTNN, FLL R-358 AT PERTS, DHP R-003 AT BOGY, DHP R-003 AT DORRL, DHP R-348 AT FLMGO, DHP R-348 AT ALNZO, DHP R-332 AT HURCN, DHP R-321 AT BNGOS, DHP R-321 AT MRENO, DHP R-196 AT MAYNR, DHP R-151 AT GWAVA, VKZ R-114 AT KLADA, VKZ R-114 AT KETLL.

CHART: TOP ALTITUDE: MIA (JETS) 5000/(TURBO-PROPS) 3000. ALL OTHER AIRPORTS AS ASSIGNED BY ATC.



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AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMIA	MIAMI	FL
KTMB	MIAMI	FL
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, MNATE TRANSITIONS.

FIXES AND/OR NAVAIDS:

PBI VORTAC, RSW VORTAC, ZBV VORTAC

REMARKS:

DO NOT CHART MOCA: FROM DHP VORTAC TO BOGY, BOGY TO DORRL - PER FC: UNABLE TO SUPPORT MOCA DUE TO THE HIGH TRAFFIC VOLUME.

FLIGHT INSPECTED BY

ROBERT E WILLIAMS

Digitally signed by

ALLAN WILL

Apr 04, 2022

OFFICE

FPO

DATE

03/18/2022

DEVELOPED BY

SHANE FOWLER

Digitally signed by

SHANE FOWLER

Mar 31, 2022

OFFICE

AJV-A423

DATE

01/14/2022

APPROVED BY

MARLON ROBINSON

Digitally signed by

ALLAN WILL

Apr 04, 2022

OFFICE

AJV-A420

DATE**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. DP ROUTE DESCRIPTION: CHANGED "...AND EXPECT RADAR VECTORS..." TO "...FOR RADAR VECTORS..." - IAW 8260.46H PARA 2-1-1G(2).
2. DP ROUTE DESCRIPTION: COMBINED NORTH PERRY RWY 19L/R - HEADING AND ALTITUDE INSTRUCTIONS ARE THE SAME.
3. REMOVED THE FOLLOWING TRANSITIONS: AARPS, EONNS, FIVEN, MNATE, SKIPS AND VACAY - ATC REDESIGN.
4. ADDED THE FOLLOWING TRANSITIONS: FLMGO, DORRL, ALTN, BEECH, KETLL, GWAVA AND MAYNR - ATC REDESIGN.
5. ADDED THE MRENO FIX TO THE BNGOS TRANSITION - ATC REDESIGN.
6. MOVED THE HURCN TRANSITION FROM THE VIRGINIA KEY NAVAID TO THE DHP NAVAID; COURSE/DISTANCE CHANGED FROM 323.61 (VKZ R-324)/67.33 TO 331.70 (DHP R-332)/50.18 - ATC REDESIGN.

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7. MOVED THE FREEPORT TRANSITION FROM THE VIGINIA KEY NAVAID TO THE DHP NAVAID AND ADDED THE FIX TALKY; COURSE/DISTANCE CHANGED FROM 057.39 (VKZ R-057)/54.10 TO 065.42 (DHP R-065)/46.23 - ATC REDESIGN.

8. MOVED NOTES RADAR REQUIRED AND DME REQUIRED FROM PROCEDURAL DATA NOTES TO EQUIPMENT REQUIREMENT NOTES AND COMBINED THEM - IAW 8260.19I.

9. ADDITIONAL FLIGHT DATA: CHANGED NOTE FROM "ZBV R-177 AT SKIPS; ZBV R-241 AT EONNS; PBI R-270 AT AARPS; RSW R-093 AT BNGOS, ZBV R-265 AT FIVEN; ZFP R-248 AT FOLZZ; RSW R-086 AT HURCN; PBI R-296 AT VACAY" TO "CHART: FLL R-104 AT BEECH, DHP R-065 AT TALKY, DHP R-065 AT FOLZZ, ZFP R-249 AT FOLZZ, FLL R-358 AT ALTNN, FLL R-358 AT PERTS, DHP R-003 AT BOGY, DHP R-003 AT DORRL, DHP R-348 AT FLMGO, DHP R-348 AT ALNZO, DHP R-332 AT HURCN, DHP R-321 AT BNGOS, DHP R-321 AT MRENO, DHP R-196 AT MAYNR, DHP R-151 AT GWAVA, VKZ R-114 AT KLADA, VKZ R-115 AT KETLL" - UPDATED TO INCLUDE ALL THE REMOVALS AND ADDITIONS TO THE TRANSITIONS.

10. ADDITIONAL FLIGHT DATA: DELETED REFERENCE MAG VAR: KMIA 5W EPOCH YR: 2000 - NO LONGER REQUIRED.

11. REMARKS: DELETED MOCA(S) NOT CHARTED PER ATC REQUEST - MOCAS MUST BE CHARTED IAW 8260.46H.

12. ADDED "CHART: TOP ALTITUDE: MIA (JETS) 5000/(TURBO-PROPS) 3000. ALL OTHER AIRPORTS AS ASSIGNED BY ATC" TO ADDITIONAL FLIGHT DATA AND DELETED "TOP ALTITUDE INFORMATION NOT CHARTED PER ATC REQUEST" FROM REMARKS - TOP ALTITUDES REQUIRED IAW 8260.46H.

13. ADDED MOCAS TO ALL TRANSITIONS - IAW 8260.46H.

03/22/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/21/22.

1. CHANGED KLADA TO KETLL COURSE FROM 114.52 (VKZ R-115) TO 114.48 (VKZ R-114) - FIX KETLL RELOCATED 197 FT NE WITH FPT/ATC APPROVAL.

2. ADDITIONAL FLIGHT DATA: CHANGED VKZ RADIAL AT KETLL FROM 115 TO 114 - FIX KETLL RELOCATED 197 FT NE WITH FPT/ATC APPROVAL.

3. COMMUNICATIONS BLOCK: ADDED "CHART" TO EACH LINE OF TEXT.

4. REMARKS: ADDED DO NOT CHART MOCA: FROM DHP VORTAC TO BOGY, BOGY TO DORRL - PER FC: UNABLE TO SUPPORT MOCA DUE TO THE HIGH TRAFFIC VOLUME. THIS ALTITUDE WILL NEVER BE USED DUE TO UNSAFE PROXIMITY TO ARRIVING AND DEPARTING TRAFFIC AT KMIA AND KFLL.

5. DP ROUTE DESCRIPTION: CHANGED MIAMI INTL FROM "TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. CLIMB AND MAINTAIN 5000 OR ASSIGNED LOWER ALTITUDE. EXPECT FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE" TO "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 TEN (10) MINUTES AFTER DEPARTURE".

6. TRANSITION ROUTES: ADDED FOLZZ TRANSITION - ATC REQUEST.

QUALITY
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