

**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SUPERSEDED NUMBER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>
MIXAE	THREE	MIXAE3.MIXAE	TWO	10/15/2015	<i>12 AUG 2021</i>
<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"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10L: CLIMB ON HEADING 098.78 TO 520, THEN DIRECT TO CROSS CRRMN AT OR ABOVE 2500, THEN ON TRACK 095.45 TO TURPS, THEN ON TRACK 096.22 TO CROSS HEFFE AT AND MAINTAIN 7000, THENCE...

TAKEOFF RWY 14: CLIMB ON HEADING 141.17 TO INTERCEPT COURSE 088.00 TO CROSS CRRMN AT OR ABOVE 2500, THEN ON TRACK 095.45 TO TURPS, THEN ON TRACK 096.22 TO CROSS HEFFE AT AND MAINTAIN 7000, THENCE ...

TAKEOFF RWY 28R: CLIMB ON HEADING 278.79 TO 520, THEN DIRECT TO CROSS CRYER AT OR ABOVE 2500, THEN ON TRACK 307.93 TO CROSS UTLEY AT OR ABOVE 4000, THEN ON TRACK 026.24 TO FINNS THEN ON TRACK 083.78 TO CROSS PYRUT AT 7000, THEN ON TRACK 114.00 TO CROSS HEFFE AT AND MAINTAIN 7000, THENCE...

...ON TRACK 096.18 TO CROSS MIXAE AT OR ABOVE 7000, THEN ON TRANSITION. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

TAKEOFF RWY 32: CLIMB ON HEADING 321.18 TO 520, THEN ON HEADING 321.00 OR ASSIGNED BY ATC FOR VECTORS TO CROSS HEFFE AT 7000, THENCE...

...ON TRACK 096.18 TO CROSS MIXAE AT OR ABOVE 7000, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

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>
HALBI	MIXAE3.HALBI	MIXAE	HALBI	TRACK 096.28	18.70	FL180	1300	

PROCEDURAL DATA NOTES:

NOTE: RNAV 1.
NOTE: RADAR REQUIRED.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: TURBO-JETS ONLY.
NOTE: IF UNABLE TO ACCEPT MINIMUM CLIMB RATES, ADVISE ATC ON INITIAL CONTACT.

TAKEOFF MINIMUMS:

RWY 10L, 14, 28R, 32: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

REFERENCE MAGVAR: KPBI 6W EPOCH REAR 2010
DME/DME ASSESSMENT: SAT RNP 2.0



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CHART: TOP ALTITUDE: RWY 10L, 14, 28R: 7000
 CHART: TOP ALTITUDE: RWY 32: ASSIGNED BY ATC.
 CHART: MINIMUM CROSSING ALTITUDE AT HEFFE AT 7000.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
PALM BEACH INTL	KPBI	WEST PALM BEACH	FL

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, TOWER, PBI DEP CON

FIXES AND/OR NAVAIDS:REMARKS:

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED

FLIGHT INSPECTED BY

Digitally signed by

JOHN BORDY

JEFFREY ECKMAN

May 27, 2021

OFFICE

FICO

DATE

05/24/2021

DEVELOPED BY

Digitally signed by

JOHN BORDY

ANA VEGA

May 27, 2021

OFFICE

AJV-A422

DATE

03/09/2021

APPROVED BY

Digitally signed by

JOHN BORDY

MARLON ROBINSON

May 27, 2021

OFFICE

AJV-A420

DATETITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMA, PBI APP CON, PBI ATCT, AMGR

CHANGES - REASONS:

1. TAKEOFF RWY 10L: UPDATED FROM "CLIMB HEADING 098.78 TO 520, THEN DIRECT CRRMN, THEN VIA DEPICTED ROUTE TO TURPS, THENCE..." TO "CLIMB ON HEADING 098.78 TO 520, THEN DIRECT TO CROSS CRRMN AT OR ABOVE 2500, THEN ON TRACK 095.45 TO TURPS, THEN ON TRACK 096.22 TO CROSS HEFFE AT AND MAINTAIN 7000, THENCE..." - ATC REQUEST AND UPDATED CRITERIA.

2. TAKEOFF RWY 14: UPDATED FROM "CLIMB HEADING 141.18 TO 520, THEN TURN LEFT DIRECT CRRMN, THEN VIA DEPICTED ROUTE TO TURPS, THENCE..." TO "CLIMB ON HEADING 141.17 TO INTERCEPT COURSE 088.00 TO CROSS CRRMN AT OR ABOVE 2500, THEN ON TRACK 095.45 TO TURPS, THEN ON TRACK 096.22 TO CROSS HEFFE AT AND MAINTAIN 7000, THENCE ..." - ATC REQUEST AND UPDATED CRITERIA.

3. TAKEOFF RWY 28R: UPDATED FROM "CLIMB HEADING 278.79 TO 520, THEN DIRECT CRYER, THEN VIA DEPICTED ROUTE TO TURPS, THENCE..." TO "CLIMB ON HEADING 278.79 TO 520, THEN DIRECT TO CROSS CRYER AT OR ABOVE 2500, THEN ON TRACK 307.93 TO CROSS UTLEY AT OR ABOVE 4000, THEN ON TRACK 026.24 TO FINNS THEN ON TRACK 083.78 TO CROSS PYRUT AT 7000, THEN ON TRACK 114.00 TO CROSS HEFFE AT AND MAINTAIN 7000, THENCE... ..ON TRACK 096.18 TO CROSS MIXAE AT OR ABOVE 7000, THEN ON TRANSITION. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE." - ATC REQUEST AND UPDATED CRITERIA.

4. TAKEOFF RWY 32: UPDATED FROM "CLIMB HEADING 321.19 TO 520, THEN DIRECT BAYBE, THEN VIA DEPICTED ROUTE TO TURPS, THENCE..." TO "CLIMB ON HEADING 321.18 TO 520, THEN ON HEADING 321.00 OR ASSIGNED BY ATC FOR VECTORS TO CROSS HEFFE AT 7000, THENCE..." - ATC REQUEST AND UPDATED CRITERIA.

5. COMMON DEPARTURE ROUTE DESCRIPTION: CHANGED FROM "VIA DEPICTED ROUTE TO MIXAE, MAINTAIN 4000 OR AS ASSIGNED BY ATC. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE." TO " ...ON TRACK 096.18 TO CROSS MIXAE AT OR ABOVE 7000, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE. - ATC REQUEST.

QUALITY
20
CHECKED

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6. PROCEDURAL DATA NOTES: REMOVED NOTES "TRANSPONDER CODE WILL BE ISSUED VIA PDC OR PALM BEACH CLNC DEL" AND "FOR NON-GPS EQUIPPED AIRCRAFT: FLL AND PBI DMES MUST BE OPERATIONAL FOR TAKEOFF RWY 10L, 14. FLL, PBI, AND PHK DMES MUST BE OPERATIONAL FOR TAKEOFF RWY 28R, 32." ATC REQUEST.

7. PROCEDURAL DATA NOTES: UPDATED NOTE FROM "TURBOJET ONLY" TO "TURBO-JETS ONLY" - PER ATC REQUEST.

8. TAKEOFF MINIMUMS: CHANGED FROM "RWY 14, 10L, 32, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520" TO "RWY 10L, 14, 28R, 32: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520. - RWY 28R ALL SURFACE CLEAR WITH CG 500 FT/NM TO 520 MSL.

9. CONTROLLING OBSTACLE: REMOVED "RWY 28R:" - CONTROLLING OBSTACLE NO LONGER PENETRATES.

10. REMOVED DEPARTURE TAKEOFF OBSTACLE NOTES AND ADDED "SEE FORM 8260 15A TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)" - NO LONGER REQUIRED TO BE LISTED PER 8260.46G APPENDIX D, SECTION 2, PARA 7.

11. ADDITIONAL FLIGHT DATA: UPDATED NOTE FROM "CHART: TOP ALTITUDE: 4000" TO "CHART: TOP ALTITUDE: RWY 10L, 14, 28R: 7000". ADDED "CHART: TOP ALTITUDE: RWY 32 ASSIGNED BY ATC" - ATC REQUEST.

12. ADDITIONAL FLIGHT DATA: REMOVED "CHART: ATC CROSSING: CROSS UTLEY AT OT ABOVE 4000" - NO LONGER NEEDED.

13. ADDITIONAL FLIGHT DATA: ADDED "CHART: MINIMUM CROSSING ALTITUDE AT HEFFE AT 7000" - RADAR VECTOR CROSSING RESTRICTION.

14. TRANSITION ROUTES: UPDATED MEA FROM "4000" TO "FL180" - NEW EVALUATION.

15. FIXES/NAVAIDS: REMOVED "AHABB, BAYBE, BRTHR AND JIMEY" - ATC REQUEST.

16. FIXES AND/OR NAVAIDS: REMOVED "UTLEY, FINNS, PYRUT" - INCLUDED IN THE FIX/NAVAID DESCRIPTION.

17. ADDED CHART FIX HEFFE - ATC REQUEST FOR COORDINATION.

18. 8260-15C RWY 28R: UPDATED FINNS TC/DIST FROM DF LEG CRYER-UTLEY FROM "307.25/3.38" TO "301.93/4.09", TF LEG UTLEY-FINNS FROM "016.48/4.66" TO "020.24/5.61" AND TF LEG FINNS-PYRUT FROM "079.63/5.35" TO "077.78/4.76" - MOVED FIXES PER ATC REQUEST.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME					NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
MIXAE					THREE		MIXAE3.MIXAE		TWO	10/15/2015	12 AUG 2021
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE		SPEED		REMARKS
RW10L (AER)*	264058.97N/0800616.92W*	N	-	-	-	-					*DISPL THLD (1200.0 FT)
520 MSL	-	-	-	VA	092.78	-	AT/ABOVE 520				CG 500 FT/NM TO 520
CRRMN	264039.96N/0795903.47W	Y	FB	DF	-	-	AT/ABOVE 2500				
TURPS	264046.64N/0794448.20W	Y	FB	TF	089.45	12.77					
HEFFE	264045.16N/0793823.79W	Y	FB	TF	090.22	5.74	AT 7000				
RW14 (AER)	264130.60N/0800614.48W	N	-	-	-	-					
	-	-	-	VI	135.17	2.16					CG 500 FT/NM TO 520
CRRMN	264039.96N/0795903.47W	Y	FB	CF	082.00	4.96	AT/ABOVE 2500				
TURPS	264046.64N/0794448.20W	Y	FB	TF	089.45	12.77					
HEFFE	264045.16N/0793823.79W	Y	FB	TF	090.22	5.74	AT 7000				
RW28R (AER)*	264055.13N/0800448.94W*	N	-	-	-	-					*DISPL THLD (811.0 FT)
520 MSL	-	-	-	VA	272.79	-	AT/ABOVE 520				CG 500 FT/NM TO 520
CRYER	264112.90N/0801215.10W	Y	FB	DF	-	-	AT/ABOVE 2500				
UTLEY	264322.89N/0801607.46W	Y	FB	TF	301.93	4.09	AT/ABOVE 4000				
FINNS	264839.65N/0801357.27W	Y	FB	TF	020.24	5.61					
PYRUT	264940.16N/0800845.44W	Y	FB	TF	077.78	4.76	AT 7000				
HEFFE	264045.16N/0793823.79W	T	FB	TF	108.00	28.60	AT 7000				
RW32 (AER)*	264044.85N/0800523.87W*	N	-	-	-	-					*DISPL THLD (418.0 FT)
520 MSL	-	-	-	VA	315.18	-	AT/ABOVE 520				CG 500 FT/NM TO 520

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MIXAE		THREE		MIXAE3.MIXAE		TWO		10/15/2015	<i>12 AUG 2021</i>
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
-	-	-	-	VM	315.00	-			
HEFFE	264045.16N/0793823.79W	Y	-	IF	-	-	AT 7000		
MIXAE	264043.37N/0792927.93W	Y	FB	TF	090.18	8.00	AT/ABOVE 7000		
MIXAE	264043.37N/0792927.93W	Y	-	IF	-	-	AT/ABOVE 7000		MIXAE3.HALBI
HALBI	264036.39N/0790835.60W	Y	FB	TF	090.28	18.70			

