

**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SUPERSEDED NUMBER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          | FOUR          | MIXAE4.MIXAE            | THREE                    | 08/12/2021   | 22 JAN 2026                  |

| <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 checked="" type="checkbox"/> |

**DP ROUTE DESCRIPTION:**

TAKEOFF **RWY 10L**: CLIMB ON HEADING 098.78 TO INTERCEPT COURSE 069.75 TO SMGLR, THEN ON TRACK 103.17 TO CROSS HEFEE AT 7000, THENCE...  
 TAKEOFF **RWY 14**: CLIMB ON HEADING 141.17 TO INTERCEPT COURSE 083.00 TO CRRMN, THEN ON TRACK 095.66 TO CROSS HEFFE AT 7000, THENCE ...  
 TAKEOFF **RWY 28R**: CLIMB ON HEADING 278.79 TO 520, THEN DIRECT CRYER, 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 7000, THENCE...  
 TAKEOFF **RWY 32**: CLIMB ON HEADING 321.17, FOR VECTORS TO CROSS HEFFE AT 7000, THENCE...

...ON TRACK 096.18 TO CROSS MIXAE AT OR ABOVE 7000 THEN ON TRANSITION. **RWY 10L/14/28R**: MAINTAIN 7000, **RWY 32**: MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ALL AIRCRAFT: CLIMB GRADIENTS: IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO DEPARTURE. RUNWAYS 10L, 14, 28R, 32: 500 FT/NM TO 520.

**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                  | MIXAE4.HALBI                    | MIXAE                  | HALBI                | TRACK 096.28  | 18.70           | FL180      | 1300        |                                |

**PBN REQUIREMENT NOTES:**

RNAV 1 - DME/DME/IRU OR GPS.

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**PROCEDURAL DATA NOTES:**

NOTE: JET AIRCRAFT ONLY.

**TAKEOFF MINIMUMS:**

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

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

**MSA:**

PBI, 2600.

**LOST COMMUNICATIONS PROCEDURES:**



| <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          | FOUR          | MIXAE4.MIXAE            | THREE                    | 08/12/2021   | 22 JAN 2026                  |

**ADDITIONAL FLIGHT DATA:**

AIRPORT MV: PBI 6W/2010.  
 DME/DME ASSESSMENT: SAT RNP 2.0  
 CHART: TOP ALTITUDE: RWYS 10L, 14, 28R: 7000  
 CHART: TOP ALTITUDE: RWY 32: ASSIGNED BY ATC.  
 CHART: MINIMUM CROSSING ALTITUDE AT HEFFE - AT 7000.

**AIRPORTS SERVED:**

| <u>AIRPORT ID</u> | <u>CITY</u>     | <u>STATE</u> |
|-------------------|-----------------|--------------|
| PBI               | WEST PALM BEACH | FL           |

**COMMUNICATIONS:**

CHART: ATIS, CLNC DEL, GND CON, TOWER, CDPLC

**FIXES AND/OR NAVAIDS:**

**REMARKS:**

75 FOOT VEGETATION USED PER FPT.  
 280 FOOT SHIP USED PER FPT.  
 THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED - CARRY OVER REMARK.  
 ATC IS NOT ALLOWED TO LET AN AIRCRAFT CLIMBING TO THE LOWEST ALTITUDES ASSIGNED ENTER A HIGHER MVA UNLESS ATC HAS ASSIGNED AND THE PILOT REACHED THE ALTITUDE EQUAL TO OR HIGHER THAN THE MVA SECTOR THEY ARE ENTERING OR FAA ORDER 7110.65, PARAGRAPH 5-6-3.A.(1) OR (2) IS BEING APPLIED (ATC IS RESPONSIBLE FOR OBSTACLE SEPARATION UNTIL THE AIRCRAFT REACHES THE MVA ALTITUDE OR HIGHER).  
 WAIVER FOR NON-STANDARD CLIMB GRADIENT FOR LNAV ENGAGEMENT FOR NOISE ABATEMENT  
 WAIVER FOR AN ATC REQUESTED MAINTAIN ALTITUDE LOWER THAN THE UNRESTRICTED CLIMB ALLOWED BY TERPS EVALUATION.  
 WAIVER FOR USING LESS ROC THAN REQUIRED FOR DP LEVEL SURFACE.

| <u>FLIGHT INSPECTED BY</u> | <u>SIGNATURE</u> | <i>Digitally signed by</i><br><b>CASIMIR L TABAKA</b> | <u>OFFICE</u> | <u>DATE</u> |              |
|----------------------------|------------------|---|---------------|-------------|--------------|
| MATTHEW OLSTAD             |                  | Nov 24, 2025  | AJF           | 11/20/2025  |              |
| <u>DEVELOPED BY</u>        | <u>SIGNATURE</u> | <i>Digitally signed by</i><br><b>CASIMIR L TABAKA</b> | <u>OFFICE</u> | <u>DATE</u> |              |
| JOHN KEEFER                |                  | Nov 24, 2025  | AJV-A432      | 10/15/2025  |              |
| <u>APPROVED BY</u>         | <u>SIGNATURE</u> | <i>Digitally signed by</i><br><b>CASIMIR L TABAKA</b> | <u>OFFICE</u> | <u>DATE</u> | <u>TITLE</u> |
| CASIMIR TABAKA             |                  | Nov 24, 2025  | AJV-A430      |             | MANAGER      |

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZMA, PBI DEP CON, PBI ATCT, AMGR

**CHANGES - REASONS:**

1. DP ROUTE DESCRIPTION: RUNWAY 10L CHANGED FROM CLIMB ON HEADING 098.78 TO 520, THEN DIRECT CRRMN TO CROSS AT OR ABOVE 2500, THEN ON TRACK 095.45 TO TURPS, THEN ON TRACK 096.22 TO CROSS HEFFE AT OR ABOVE 7000, THENCE...TO CLIMB ON HEADING 098.78 TO INTERCEPT COURSE 069.75 TO SMGLR, THEN ON TRACK 103.17 TO CROSS HEFFE AT 7000, THENCE...- ATC REQUEST NEW ROUTING, TURPS REMOVED FROM PROCEDURE.
2. DP ROUTE DESCRIPTION: RUNWAY 14 CHANGED FROM 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 OR ABOVE 7000, THENCE ...TO CLIMB ON HEADING 141.17 TO INTERCEPT COURSE 083.00 TO CRRMN, THEN ON TRACK 095.66 TO CROSS HEFFE AT

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|----------------|---------------|-------------------------|--------------------------|--------------|------------------------------|
| MIXAE          | FOUR          | MIXAE4.MIXAE            | THREE                    | 08/12/2021   | 22 JAN 2026                  |

- 7000, THENCE ...- ATC REQUEST NEW ROUTING, TURPS REMOVED FROM PROCEDURE.
3. DP ROUTE DESCRIPTION: TAKEOFF RWY 28R: CHANGED FROM TAKEOFF **RWY 28R**: CLIMB ON HEADING 278.79 TO 520, THEN DIRECT CRYER TO CROSS 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 OR ABOVE 7000, THEN ON TRACK 114.00 TO CROSS HEFFE AT OR ABOVE 7000, THENCE... TO TAKEOFF **RWY 28R**: CLIMB ON HEADING 278.79 TO 520, THEN DIRECT CRYER, 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 7000, THENCE...- ATC REQUEST NEW ROUTING/8260.46K.
  4. DP ROUTE DESCRIPTION: RUNWAY 32 CHANGED FROM CLIMB ON HEADING 321.18 TO 520, THEN ON HEADING 321.00 OR ASSIGNED BY ATC FOR VECTORS TO CROSS HEFFE AT OR ABOVE 7000, THENCE...TO CLIMB ON HEADING 321.17, FOR VECTORS TO CROSS HEFFE AT 7000, THENCE...ATC REQUEST, 8260.46K CRITERIA.
  5. DP ROUTE DESCRIPTION: THENCE PORTION CHANGED FROM ...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 TO ...ON TRACK 096.18 TO CROSS MIXAE AT OR ABOVE 7000 THEN ON TRANSITION. **RWY 10L/14/28R**: MAINTAIN 7000, **RWY 32**: MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE. - MAINTAIN CONSISTENT VERBIAGE BETWEEN PBI SIDS.
  6. DP ROUTE DESCRIPTION: ADDED ALL AIRCRAFT: CLIMB GRADIENTS: IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO DEPARTURE. RUNWAYS 10L, 14, 28R, 32: 500 FT/NM TO 520. - ADDED PER FPT.
  7. PBN REQUIREMENT NOTES: ADDED RNAV 1 - DME/DME/IRU OR GPS. - 8260.46K COMPLIANCE.
  8. EQUIPMENT REQUIREMENT NOTES: ADDED RADAR REQUIRED.- 8260.46K COMPLIANCE.
  9. TAKEOFF MINIMUMS: CHANGED 500 FT PER NM TO 500 FT/NM. - 8260.46K COMPLIANCE
  10. PROCEDURAL DATA NOTES: REMOVED RNAV 1. - MOVED TO PBN NOTE SECTION AND UPDATED TO 8260.46K CRITERIA.
  11. PROCEDURAL DATA NOTES: REMOVED RADAR REQUIRED. - MOVED TO EQUIPMENT SECTION - 8260.46K CRITERIA.
  12. PROCEDURAL DATA NOTES: REMOVED DME/DME/IRU OR GPS REQUIRED.- MOVED TO PBN NOTE SECTION AND UPDATED TO 8260.46K CRITERIA.
  13. PROCEDURAL DATA NOTES: CHANGED TURBO-JETS ONLY TO JET AIRCRAFT ONLY. - 8269,46K COMPLIANCE.
  14. PROCEDURAL DATA NOTES: REMOVED NOTE: IF UNABLE TO ACCEPT MINIMUM CLIMB RATES, ADVISE ATC ON INITIAL CONTACT. - REPLACED SIMILIAR NOTE IN DP ROUTE DESCRIPTION PER FPT.
  15. ADDITIONAL FLIGHT DATA: CHANGED MAGVAR REFERENCE FROM REFERENCE MAGVAR: PBI 06W EPOCH REAR 2010 TO AIRPORT MV: PBI 6W/2010.- 8260.46K COMPLIANCE
  16. REMARKS: ADDED 75 FOOT VEGETATION USED PER FPT. 8260.46K COMPLIANCE.
  17. REMARKS: ADDED REMARK: ADDED ATC IS NOT ALLOWED TO LET AN AIRCRAFT CLIMBING TO THE LOWEST ALTITUDES ASSIGNED ENTER A HIGHER MVA UNLESS ATC HAS ASSIGNED AND THE PILOT REACHED THE ALTITUDE EQUAL TO OR HIGHER THAN THE MVA SECTOR THEY ARE ENTERING OR FAA ORDER 7110.65, PARAGRAPH 5-6-3.A.(1) OR (2) IS BEING APPLIED (ATC IS RESPONSIBLE FOR OBSTACLE SEPARATION UNTIL THE AIRCRAFT REACHES THE MVA ALTITUDE OR HIGHER). - AFS DIRECTED.
  18. REMARKS: WAIVER: ADDED: FOR NON-STANDARD CLIMB GRADIENT FOR LNAV ENGAGMENT FOR NOISE ABATEMENT. -8260.46K COMPLIANCE.
  19. REMARKS: WAIVER: ADDED: FOR AN ATC REQUESTED MAINTAIN ALTITUDE LOWER THAN THE UNRESTRICTED CLIMB ALLOWED BY TERPS EVALUATION. - 8260.46K COMPLIANCE.
  20. REMARKS: WAIVER: ADDED: FOR USING LESS ROC THAN REQUIRED FOR DP LEVEL SURFACE. - 8260.46K COMPLIANCE.
  21. REMARKS: 280 FOOT SHIP USED PER FPT. 8260.46K COMPLIANCE.
  21. COORDINATED WITH: REPLACED PBI APP CON WITH PBI DEP CON. - PROCEDURE IS A DEPARTURE.



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

| <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             | FOUR                    | MIXAE4.MIXAE            | THREE                    | 08/12/2021      | 22 JAN 2026                  |                  |                 |              |                       |
| <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>        |
| RW10L (AER)*      | 264058.97N/0800616.92W* | N                       | -                        | -               | -                            | -                |                 |              | *DISPL THLD (1200 FT) |
|                   | 264051.66N/0800329.65W  | -                       | -                        | VI              | 092.78                       | 2.50             |                 |              | CG 500 FT/NM TO 520   |
| SMGLR             | 264303.25N/0795832.81W  | Y                       | FB                       | CF              | 063.75                       | 4.94             |                 |              |                       |
| HEFFE             | 264045.16N/0793823.79W  | Y                       | FB                       | TF              | 097.17                       | 18.19            | AT 7000         |              |                       |
| RW14 (AER)        | 264130.60N/0800614.48W  | N                       | -                        | -               | -                            | -                |                 |              |                       |
|                   | 263936.61N/0800408.41W  | -                       | -                        | VI              | 135.17                       | 2.67             |                 |              | CG 500 FT/NM TO 520   |
| CRRMN             | 264039.96N/0795903.47W  | Y                       | FB                       | CF              | 077.00                       | 4.67             |                 |              |                       |
| HEFFE             | 264045.16N/0793823.79W  | Y                       | FB                       | TF              | 089.66                       | 18.51            | AT 7000         |              |                       |
| RW28R (AER)*      | 264055.13N/0800448.94W* | N                       | -                        | -               | 272.79                       | -                |                 |              | *DISPL THLD (811 FT)  |
| 520 MSL           |                         | -                       | -                        | VA              | -                            | -                | 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  | Y                       | FB                       | TF              | 108.00                       | 28.60            | AT 7000         |              |                       |
| RW32 (AER)*       | 264044.85N/0800523.87W* | N                       | -                        | -               | -                            | -                |                 |              | *DISPL THLD (418 FT)  |
|                   |                         | -                       | -                        | VM              | 315.17                       | -                |                 |              | CG 500 FT/NM TO 520   |
| HEFFE             | 264045.16N/0793823.79W  | Y                       | -                        | IF              | -                            | -                | AT 7000         |              |                       |



| <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          | FOUR          | MIXAE4.MIXAE            | THREE                    | 08/12/2021   | 22 JAN 2026                  |

  

| <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> |
|-------------------|------------------------|----------|--------------|-----------------|-----------|------------------|-----------------|--------------|----------------|
| 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   |              | MIXAE4.HALBI   |
| HALBI             | 264036.39N/0790835.60W | Y        | FB           | TF              | 090.28    | 18.70            |                 |              |                |

