

**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SUPERSEDED NUMBER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>EFFECTIVE DATE</u>
MORRISTOWN	SEVEN	MMU7.MMU	SIX	08/23/2011	<b>28 FEB 2019</b>

<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 243.  
\*\*\* See Page 3 for details. \*\*\*

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 5: CLIMB HEADING 049.10 TO 1700, THEN CLIMBING RIGHT TURN HEADING 160.00 TO 2000, THENCE...  
TAKEOFF RWY 13: CLIMB HEADING 126.92 TO 800, THEN CLIMB HEADING 100.00 TO 1700, THEN CLIMB HEADING 160.00 TO 2000, THENCE...  
TAKEOFF RWY 23: CLIMB HEADING 229.11 TO 600, THEN CLIMB HEADING 210.00 TO 2000, THEN TURN LEFT HEADING 160.00, THENCE...  
TAKEOFF RWY 31: CLIMBING RIGHT TURN ON SBJ R-052.00 TO 1700, THEN CLIMBING RIGHT TURN HEADING 160.00 TO 2000 FT, THENCE...

...AS PER NOTES OR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (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>
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**PROCEDURAL DATA NOTES:**

NOTE:RADAR REQUIRED  
NOTE:BAYYS DEPARTURES WILL BE ISSUED VECTORS TO BDR/DBR R-054.  
NOTE: BIGGY DEPARTUES WILL BE ISSUED VECTORS TO SBJ/SBJ R-237.  
NOTE: BREZY DEPARTURES WILL BE ISSUED VECTORS TO IGN R-217 TO BREZY.  
NOTE: COATE DEPARTURES WILL BE ISSUED VECTORS TO SAX/SAX R-311.  
NOTE: DIXIE DEPARTURES WILL BE ISSUED VECTORS TO COL R-350 COL/COL R-192 OR ELVAE/COL.  
NOTE: ELIOT DEPARTURES WILL BE ISSUED VECTORS TO SAX R-252. ELIOT MAY BE ACCESSED BY ALL TYPES OF AIRCRAFT REQUESTING A FINAL ALTITUDE OF 14000 OR 16000.  
NOTE: GAYEL DEPARUTRES WILL BE ISSUED VECTORS TO DPK R-320.  
NOTE: HAAYS DEPARTURES WILL BE ISSUED VECTORS TO HUO.  
NOTE: LANNA DEPARTURES WILL BE ISSUED VECTORS TO SBJ/SBJ R-274.  
NOTE: MERIT DEPARTURES WILL BE ISSUED VECTORS TO LGA R-055.  
NOTE: NEION DEPARTURES WILL BE ISSUED VECTORS TO LGA R-322.  
NOTE: NEWEL DEPARTURTES WILL BE ISSUED VECTORS TO SAX/SAX R-264. NEWEL MAY BE ACCESSED BY JET AIRCRAFT ONLY REQUESTING A FINAL ALTITUDE AT OR ABOVE FLIGHT LEVEL 180.  
NOTE: RWY 23 PARKE DEPARTURES WILL BE ISSUED VECTORS TO BWZ R-250 OR SBJ/SBJ R-302.  
NOTE: WHITE DEPARTURES WILL BE ISSUED VECTORS TO COL R-350 COL/COL R-204 OR ELVAE/COL.  
NOTE: ZIMMZ DEPARTURES WILL BE ISSUED VECTORS SBJ/SBJ R-317, ZIMMZ MAY BE ACCESSED BY ALL TYPES OF AIRCRAFT REQUESTING A FINAL ALTITUDE AT OR ABOVE FLIGHT LEVEL 180.

**TAKEOFF MINIMUMS:**

**RWY 5:** 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 210 FT PER NM TO 500, OR ALTERNATIVELY, WITH A STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FEET PRIOR TO DER.  
**RWY 13:** 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 230 FT PER NM TO 500.  
**RWY 23:** 400-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 475 FT PER NM TO 600.  
**RWY 31:** 300-1 WITH MINIMUM CLIMB OF 310 FT PER NM TO 1500.

**TAKEOFF OBSTACLES NOTES:**

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

QUALITY  
9  
CHECKED

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MORRISTOWN	SEVEN	MMU7.MMU	SIX	08/23/2011	<b>28 FEB 2019</b>

**CONTROLLING OBSTACLES:****RWY 5:** 368 FT MSL TREE 404933.37N/0742354.22W.**RWY 13:** 394 FT MSL TANK 404701.00N/0742322.00W.**RWY 23:** 442 FT MSL TREE 404709.63N/0742600.07W (CLIMB GRADIENT); 546 FT MSL MONUMENT 404646.50N/0742622.93W (CLIMB-TO ALTITUDE/CEILING); 462 FT MSL TREE 404625.18N/0742703.84W (VISIBILITY).**RWY 31:** 1160 FT MSL AAO 405057.00N/0742936.00W (CLIMB GRADIENT); 1457 FT MSL TOWER 404920.60N/0743320.75W (CLIMB-TO ALTITUDE); 364 FT MSL TREE 404814.54N/0742538.78W (CEILING/ VISIBILITY).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

**RWY 13:** 683 FT MSL TOWER 404751.00N/0742136.00W.**RWY 23:** 1457 FT MSL TOWER 404920.60N/0743320.75W.**LOST COMMUNICATIONS PROCEDURES:**

FOR AIRCRAFT PROCEEDING TO COATE, NEION, HAAYS, GAYEL, BREZY, IF RADIO CONTACT LOST/NOT ESTABLISHED WITH ATC, CLIMB TO 3000 FEET AFTER CROSSING SBJ R-047.

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: 2000.

CHART: ALL FIX AND FACILITY LAT/LONGS

CHART BDR R-054 TO BAYYS, SBJ R-237 TO BIGGY, IGN R-217 TO BREZY, SAX R-311 TO COATE, COL R-350 TO ELAVE, COL R-192 TO DIXIE, SAX R-252 TO ELIOT, DPK R-320 GAYEL, SBJ R-274 TO LANNA, LGA R-055 TO MERIT, LGA R-322 TO NEION, SAX R-264 TO NEWEL, BWZ R-306 TO NEWEL, BWZ R-250 TO PARKE, SBJ R-302 TO PARKE, COL R-204 TO WHITE, SBJ R-317 TO ZIMMZ, CMK R-057 TO GREKI, SBJ R-047.

REFERENCE MAG VAR: KMMU 13W EPOCH YR: 2005.

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
MORRISTOWN MUNI (KMMU)	MORRISTOWN	NJ

**COMMUNICATIONS:**

CLNC DEL, GND CON, TOWER/CTAF, NEW YORK DEP CON

**FIXES AND/OR NAVAIDS:**

CMK VOR/DME, SAX VORTAC, BWZ VOR/DME, BDR VOR/DME, SBJ VOR/DME, COL VOR/DME, IGN VOR/DME, LGA VOR/DME, DPK VOR/DME, HUO VOR/DME, GAYEL INT, NEION INT, COATE INT, HAAYS INT, ELIOT INT, PARKE INT, LANNA INT, BIGGY INT, BREZY INT, WHITE INT, DIXIE INT, MERIT INT, BAYYS INT, GREKI INT, ELVAE INT, NEWEL INT, ZIMMZ INT.

**REMARKS:**

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MORRISTOWN	SEVEN	MMU7.MMU	SIX	08/23/2011	<b>28 FEB 2019</b>

**FLIGHT INSPECTED BY:****OFFICE SYMBOL:****DATE:****DEVELOPED BY:**

IVAN BLANCO

*Digitally signed by***IVAN BLANCO**

Sep 19, 2018

**OFFICE SYMBOL:**

AJV-5432

**DATE:**

09/14/2018

**APPROVED BY:**

PAT MULQUEEN

*Digitally signed by***GEORGE E DAVIS**

Jan 24, 2019

**OFFICE SYMBOL:**

AJV- 5430

**DATE:****REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:****A4A****ALPA****AOPA****APA****HAI****NBAA****OTHER:**

ZNY, NYC APP CON, AMGR

**CHANGES - REASONS:**

1. REMOVED REFERENCES TO "FEET" FROM ALL DP ROUTE DESCRIPTIONS - NO LONGER REQUIRED OR USED.
2. REMOVED ALL REFERENCES TO "EXPECT" FROM PROCEDURAL DATA NOTES - IAW 8260.46F, 1-1-6 A3.
3. TAKEOFF MINIMUMS CHANGED FROM RWY 5: STANDARD TO **RWY 5:** 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 210 FT PER NM TO 500, OR ALTERNATIVELY, WITH A STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FEET PRIOR TO DER - NEW VG SURVEY 06/24/2016.
4. TAKEOFF MINIMUMS CHANGED FROM RWY 13: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 227 FT PER NM TO 500, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FT PRIOR TO DER TO **RWY 13:** 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 230 FT PER NM TO 500 - RESULT OF NEW SURVEY EVALUATION.
5. TAKEOFF MINIMUMS CHANGED FROM RWY 23: 400-2 OR STANDARD WITH MINIMUM CLIMB OF 394 FT PER NM TO 700 TO **RWY 23:** 400-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 475 FT PER NM TO 600 - NEW SURVEY RESULT.
6. TAKEOFF MINIMUMS CHANGED FROM RWY 31: 500-1 WITH MINIMUM CLIMB OF 342 FT PER NM TO 1500 TO **RWY 31:** 300-1 WITH MINIMUM CLIMB OF 310 FT PER NM TO 1500 - NEW SURVEY EVALUATION RESULTS.
7. ADDED TO ADDITIONAL FLIGHT DATA "REFERENCE MAG VAR: KMMU 13W EPOCH YR: 2005" - IAW 8260.46F APPENDIX D, 10B.
8. ADDED CONTROLLING OBSTACLE TO RWY 5 AND UPDATED CONTROLLING OBSTACLES TO ALL OTHER RWYS - TAKEOFF MINIMUMS ADDED AND RESULTS OF NEW SURVEY EVALUATION.
9. ADDED OBSTACLES REQUIRING ODP ROUTE DEVELOPMENT TO RWY 13, 23 - IAW 8260.46F APPENDIX D, 8C.
10. ADDED CHART: TOP ALTITUDE: 2000 TO ADDITIONAL FLIGHT DATA - PER ATC OPERATIONAL REQUEST AND IAW 8260.46F APPENDIX D, 10C.
11. REMOVED TAKEOFF OBSTACLE NOTES - ADDED NOTE "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)."

**1/24/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/13/2018:**

CHANGED TAKEOFF RWY 23 DP ROUTE DESCRIPTION FROM ...THEN TURNING LEFT HEADING 160.00, TO 2000, THENCE... TO ...THEN TURN LEFT HEADING 160.00, THENCE...

