

**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SUPERSEDED NUMBER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>
MANCHESTER	ONE		NINE	08/17/2017	

<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"/>

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 6: TURBOJET AIRCRAFT- CLIMBING LEFT TURN HEADING 039.00, THENCE... ALL OTHER AIRCRAFT- CLIMB ON HEADING 057.42 OR AS ASSIGNED BY ATC, THENCE...  
TAKEOFF RWY 17: TURBOJET AIRCRAFT- CLIMBING RIGHT TURN HEADING 219.00, THENCE... ALL OTHER AIRCRAFT- CLIMB ON HEADING 171.52 OR AS ASSIGNED BY ATC, THENCE...  
TAKEOFF RWY 24: CLIMB ON HEADING 237.43 OR AS ASSIGNED BY ATC, THENCE...  
TAKEOFF RWY 35: CLIMB ON HEADING 351.53 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT VECTORS TO ASSIGNED ROUTE/NAVAID/FIX. MAINTAIN 3000 OR AS ASSIGNED BY ATC. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN FIVE (5) 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.

**TAKEOFF MINIMUMS:**

RWY 6: STANDARD  
RWY 17: 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 270 FT PER NM TO 600.  
RWY 24: STANDARD WITH A MINIMUM CLIMB OF 335 FT PER NM TO 800.  
RWY 35: 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 265 FT PER NM TO 1400.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

RWY 17: 445 FT MSL TREE 425420.95N/0712455.43W (CLIMB GRADIENT), 455 FT MSL TREE 425417.96N/0712452.98W (CLIMB-TO ALTITUDE), 463 FT MSL TREE 425409.52N/0712446.70W (CEILING), 458 FT MSL TREE 425402.53N/0712446.19W (VISIBILITY)  
RWY 24: 547 FT MSL TOWER 425426.98N/0712740.95W (CLIMB GRADIENT), 1523 FT MSL TOWER 425854.70N/0713519.50W (CLIMB-TO ALTITUDE)  
RWY 35: 416 FT MSL TREE 425718.77N/0712716.20W (CLIMB GRADIENT), 1523 FT MSL TOWER 425854.70N/0713519.50W (CLIMB-TO ALTITUDE), 417 FT MSL TREE 425721.17N/0712716.52W (CEILING), 407 FT MSL TREE 425729.22N/0712725.78W, (VISIBILITY)

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: 3000.

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MANCHESTER	KMHT	MANCHESTER	NH



COMMUNICATIONS:  
ATIS, CLNC DEL, GND CON, ATCT, BOS DEP CON.

FIXES AND/OR NAVAIDS:  
GDM VOR/DME, BOS VOR/DME, CAM VOR/DME, CON VOR/DME, ENE VOR/DME

REMARKS:  
(CARRIED OVER FROM MANCHESTER NINE) RWY 24 CLIMB GRADIENTS MITIGATES 547 MSL TOWER (36-000006). ENABLES ATC TO USE DESIRED TAKEOFF COURSE VICE AIRPORT 8260-15A WHICH USES OFFSET COURSE TO ACCOUNT FOR 2007 FLIGHT INSPECTION RECOMMENDATION TO INCREASE SAFETY MARGIN FOR LIGHT AIRCRAFT ENCOUNTERING CROSS WIND CONDITIONS.

FLIGHT INSPECTED BY		OFFICE	DATE	
GALEN W COLLINS	<i>Digitally signed by</i> <b>DONALD H LANIER</b> Sep 17, 2020	FIOG	7/22/2021	
DEVELOPED BY		OFFICE	DATE	
ROBERT GRIM	<i>Digitally signed by</i> <b>ROBERT GRIM</b> Sep 16, 2020	AJV-A431	01/28/2020	
APPROVED BY		OFFICE	DATE	TITLE
GEORGE DAVIS	<i>Digitally signed by</i> <b>DONALD H LANIER</b> Sep 17, 2020	AJV-A430		MANAGER

REQUIRED EFFECTIVE DATE  
ROUTINE

COORDINATED WITH:

☒A4A☒ALPA☒AOPA☒APA☐HAI☒NBAA☒OTHER: ZBW, BOS APP CON, MHT ATCT, ARPT MGR

CHANGES - REASONS:  
CANCELS FDC NOTAM 0/1585.  
IN DP ROUTE DESCRIPTION CHANGED CLIMB HEADING TO CLIMB ON HEADING - IAW 8260.46G 1-1-5 A. (3)  
DELETED BEDDS FROM FIXES AND NAVAIDS - BEDDS LOM DECOMMISSIONED 6-20-19.  
DELETED REMARK: RWY 6 AND RWY 35 CLIMB GRADIENTS ESTABLISHED TO ENSURE DIVERSE 40:1 CONTROLLING OBSTACLES ARE MITIGATED SHOULD ATC ASSIGN WORST CASE HEADING - RWY 6 HAS NO OBSTACLE PENETRATIONS. ATC WILL USE PUBLISHED MVA TO VECTOR AT REQUIRED ALTITUDES. RWY 35 HAS NEW CONTROLLING OBSTACLE.  
DELETED TAKEOFF OBSTACLE NOTES - IAW 8260.46G SECTION 2, 7. A.  
TAKEOFF MINIMUMS CHANGED FROM RWY 6: STANDARD WITH MINIMUM CLIMB OF 206 FT PER NM TO 1000, 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, RWY 17, 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 600, RWY 24, STANDARD WITH MINIMUM CLIMB OF 321 FT PER NM TO 1200, RWY 35, STANDARD WITH MINIMUM CLIMB OF 253 FT PER NM TO 2000, TO RWY 6: STANDARD, RWY 17: 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 270 FT PER NM TO 600, RWY 24: STANDARD WITH A MINIMUM CLIMB OF 335 FT PER NM TO 800, RWY 35: 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 265 FT PER NM TO 1400 - IAW TARGETS BUILD DATA.  
CONTROLLING OBSTACLES CHANGED FROM RWY 6: 789 FT MSL AAO 425822.72N/0712137.11W, RWY 17: 457 FT MSL POLE 425416.52N/0712501.99W, RWY 24: 547 FT MSL TOWER 425426.98N/0712740.95W. 1523 FT MSL TOWER 425854.70N/0713519.50W, RWY 35: 409 FT MSL TREES 425716.44N/0712718.29W. 414 FT MSL TREES 425720.64N/0712715.36W. 407 FT MSL TREES 425729.22N/0712725.78W. 1523 FT MSL TOWER 425854.70N/0713519.50W TO RWY 17: 445 FT MSL TREE 425420.95N/0712455.43W (CLIMB GRADIENT), 455 FT MSL TREE 425417.96N/0712452.98W (CLIMB-TO ALTITUDE), 463 FT MSL TREE 425409.52N/0712446.70W (CEILING), 458 FT MSL TREE 425402.53N/0712446.19W (VISIBILITY). RWY 24: 547 FT MSL TOWER 425426.98N/0712740.95W (CLIMB GRADIENT), 1523 FT MSL TOWER 425854.70N/0713519.50W (CLIMB-TO ALTITUDE). RWY 35: 416 FT MSL TREE 425718.77N/0712716.20W (CLIMB GRADIENT), 1523 FT MSL TOWER 425854.70N/0713519.50W (CLIMB-TO ALTITUDE), 417 FT MSL TREE 425721.17N/0712716.52W (CEILING), 407 FT MSL TREE 425729.22N/0712725.78W, (VISIBILITY) - IAW TARGETS BUILD DATA.  
DELETED LEB VOR/DME, LWM VOR/DME AND EEN VORTAC FROM FIXES AND/OR NAVIADS BLOCK - VOR MON.

05/19/20: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/28/20.  
1. DELETED LWM VOR/DME, LEB VOR/DME AND EEN VORTAC FROM PROCEDURE - VOR MON.



08/17/20: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/27/20.  
1. DELETED PSM VDME AND MHT VDME FROM FIXES AND/OR NAVIADS BLOCK - VOR MON.

