

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  
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<u>DP NAME</u>						<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
PPORT						THREE	PPORT3.PPORT	TWO	07/21/2016	17 AUG 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 checked="" type="checkbox"/>					

**DP ROUTE DESCRIPTION:**  
**TAKEOFF RWY 6:** CLIMBING LEFT TURN HEADING 039.00, THENCE...  
**TAKEOFF RWY 17:** CLIMBING RIGHT TURN HEADING 219.00, THENCE...  
**TAKEOFF RWY 24:** CLIMB HEADING 237.43, THENCE...  
**TAKEOFF RWY 35:** CLIMB HEADING 351.53, THENCE...

... EXPECT VECTORS TO RAYMY, THEN ON DEPICTED ROUTE TO PPORT. 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>
BARNES	PPORT3.BAF	PPORT	SHOEL	TRACK 154.91	7.76	5000	1600	
		SHOEL	RBELA	TRACK 214.75	10.07	7000	1600	
		RBELA	COTEE	TRACK 214.76	21.52	11000	1700	
		COTEE	BAF VORTAC	TRACK 269.84	73.84	17000	3100	
CALVERTON	PPORT3.CCC	PPORT	SHOEL	TRACK 154.91	7.76	5000	1600	
		SHOEL	RBELA	TRACK 214.75	10.07	7000	1600	
		RBELA	JJIMY	TRACK 214.79	26.44	11000	1700	
		JJIMY	ORW VOR/DME	TRACK 231.42	63.96	17000	2500	
		ORW VOR/DME	CCC VOR/DME	TRACK 239.18	52.17	17000	2600	
NELIE	PPORT3.NELIE	PPORT	SHOEL	TRACK 154.91	7.76	5000	1600	
		SHOEL	RBELA	TRACK 214.75	10.07	7000	1600	
		RBELA	JJIMY	TRACK 214.79	26.44	11000	1700	
		JJIMY	NELIE	TRACK 262.81	74.09	17000	2600	



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PPORT	THREE	PPORT3.PPORT	TWO	07/21/2016	17 AUG 2017

**PROCEDURAL DATA NOTES:**  
**NOTE:** FOR TURBOJETS ONLY.  
**NOTE:** DME/DME/IRU OR GPS REQUIRED.  
**NOTE:** RADAR REQUIRED.  
**NOTE:** RNAV 1.

**TAKEOFF MINIMUMS:**  
**RWY 6,** STANDARD WITH MINIMUM CLIMB OF 321 FT PER NM TO 3000.  
**RWY 17, 24, 35,** STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 3000.

**TAKEOFF OBSTACLES NOTES:**  
**NOTE: RWY 6,** POLE AND TREES BEGINNING 67 FT FROM DER, 162 FT LEFT OF CENTERLINE, UP TO 107 FT AGL/313 FT MSL. FENCE AND TREES BEGINNING 6 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/272 FT MSL.  
**NOTE: RWY 17,** BUILDINGS AND TREES BEGINNING 1792 FT FROM DER, 54 FT LEFT OF CENTERLINE, UP TO 107 FT AGL/418 FT MSL. TRANSMISSION LINE TOWER, POLES, BUILDINGS, AND TREES BEGINNING 761 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/418 FT MSL. POLE 5563 FT FROM DER, 92 FT LEFT OF CENTERLINE, 57 FT AGL/457 FT MSL.  
**NOTE: RWY 24,** POLE AND TREES BEGINNING 221 FT FROM DER, 243 FT LEFT OF CENTERLINE, UP TO 119 FT AGL/293 FT MSL. TREES BEGINNING 2556 FT FROM DER, 1041 FT RIGHT OF CENTERLINE, UP TO 101 FT AGL/313 FT MSL.  
**NOTE: RWY 35,** POLE AND TREES BEGINNING 891 FT FROM DER, 527 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/320 FT MSL. POLES AND TREES BEGINNING 719 FT FROM DER, 558 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/281 FT MSL. TREES 5933 FT FROM DER, 1950 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/409 FT MSL. TREES 1.0 NM FROM DER, 1581 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/414 FT MSL. TREES 1.2 NM FROM DER, 1946 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/407 FT MSL.

**CONTROLLING OBSTACLES:**  
**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/0712740.95. 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.

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**  
REFERENCE MAG VAR: KMHT 15W EPOCH YEAR: 2020. DME/DME ASSESSMENT: SAT (RNP 2.0)  
**CHART:** MEA/MOCA FROM RAYMY TO PPORT, 4000/2100.

**PILOT NAVIGATION AREA:**  
7 NM ARC CENTERED ON RAYMY (IF), CW  
FROM: POINT A (BEARING 041 TO RAYMY)  
TO: POINT B (BEARING 131 TO RAYMY)  
MINIMUM ALTITUDE - 3000  
CHART: TOP ALTITUDE: 3000

AIRPORTS SERVED:	AIRPORT NAME	CITY	STATE
	MANCHESTER	MANCHESTER	NH



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**COMMUNICATIONS:**  
ATIS, CLEARANCE DEL, GROUND CONTROL, TOWER, BOS DEP CON

**FIXES AND/OR NAVAIDS:**  
PSM VOR/DME

**REMARKS:**  
1. MINIMUM CLIMB GRADIENTS FOR RWY 6, 17, AND 35 ESTABLISHED TO ENSURE MINIMUM DME/DME RECEPTION ALTITUDE OF 3000 REACHED AT RAYMY.  
2. MINIMUM CLIMB GRADIENT FOR TAKEOFF RWY 24 MITIGATES 547 MSL TOWER (36-000006) 80 FEET OUTSIDE ICA OIS AND ALSO ENSURES MINIMUM DME/DME RECEPTION ALTITUDE OF 3000 AT RAYMY. 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.

<b>FLIGHT INSPECTED BY:</b>  JAMES L REINEBOLD-JR	<i>Digitally signed by</i> <b>JACOB POWERS</b> Jun 20, 2017	<b>OFFICE SYMBOL:</b>  FICO	<b>DATE:</b>  6/15/17
<b>DEVELOPED BY:</b>  HERMAN ROGERS	<i>Digitally signed by</i> <b>HERMAN C ROGERS</b> May 24, 2017	<b>OFFICE SYMBOL:</b>  AJV-5432	<b>DATE:</b>  03/08/2017
<b>APPROVED BY:</b>  PATRICK MULQUEEN	<i>Digitally signed by</i> <b>JACOB POWERS</b> Jun 20, 2017	<b>OFFICE SYMBOL:</b>  AJV-5430	<b>DATE:</b>

**REQUIRED EFFECTIVE DATE:**  
ROUTINE

**COORDINATED WITH:**

<b>A4A</b>	<b>ALPA</b>	<b>AOPA</b>	<b>APA</b>	<b>HAI</b>	<b>NBAA</b>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**OTHER:**  
ZBW, BOS APP CON, MHT ATCT, ARPT MGR

**CHANGES - REASONS:**  
CHANGES:  
1. CHANGED REFERENCE MAG VAR FROM 16W/1995 TO 15W/2020.  
2. CHANGED MAGNETIC HEADINGS, BEARINGS, AND TRACKS TO 1 DEGREE LESS THAN PUBLISHED.

REASONS:  
MAGVAR UPDATED FROM 16W/1995 TO 15W/2020.



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DEPARTURE (DATA RECORD)

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED	EFFECTIVE DATE
PPORT		THREE		PPORT3.PPORT		TWO		07/21/2016	17 AUG 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RAYMY	430336.89N/0710642.16W	Y	-	IF	-	-			
PPORT	430523.59N/0705929.08W	Y	FB	TF	71.38	5.58			
PPORT	430523.59N/0705929.08W	Y	-	IF	-	-			PPORT3.BAF
SHOEL	425927.00N/0705240.39W	Y	FB	TF	139.91	7.76			
RBELA	424957.99N/0705717.96W	Y	FB	TF	199.75	10.07			
COTEE	422942.23N/0710707.92W	Y	FB	TF	199.76	21.52			
BAF VORTAC	420943.06N/0724258.31W	Y	FB	TF	254.84	73.84			
PPORT	430523.59N/0705929.08W	Y	-	IF					PPORT3.CCC
SHOEL	425927.00N/0705240.39W	Y	FB	TF	139.91	7.76			
RBELA	424957.99N/0705717.96W	Y	FB	TF	199.75	10.07			
JJIMY	422504.09N/0710923.06W	Y	FB	TF	199.79	26.44			
ORW VOR/DME	413323.05N/0715957.67W	Y	FB	TF	216.42	63.96			
CCC VOR/DME	405546.62N/0724755.89W	Y	FB	TF	224.18	52.17			
PPORT	430523.59N/0705929.08W	Y	-	IF					PPORT3.NELIE
SHOEL	425927.00N/0705240.39W	Y	FB	TF	139.91	7.76			
RBELA	424957.99N/0705717.96W	Y	FB	TF	199.75	10.07			
JJIMY	422504.09N/0710923.06W	Y	FB	TF	199.79	26.44			
NELIE	415627.64N/0724118.88W	Y	FB	TF	247.81	74.09			

