

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION**  
**GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
PATSS	FOUR	PATSS4.PATSS	THREE	07 MAR 2013	25 JUN 2015

**TYPE:** RNAV SID

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 4R: CLIMB HEADING 035.74 TO 520, THEN DIRECT NHANT, THEN ON TRACK 092.09 TO CROSS HURBE AT OR ABOVE 4000, THENCE...  
TAKEOFF RWY 9: CLIMB HEADING 092.56 TO 520, THEN DIRECT CLAWW, CROSS CLAWW AT OR ABOVE 4000, THENCE...  
TAKEOFF RWY 15R: CLIMB HEADING 151.16 TO INTERCEPT COURSE 132.00 TO FOXXX, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...  
TAKEOFF RWY 22L: CLIMB HEADING 215.74 TO INTERCEPT COURSE 140.00 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...  
TAKEOFF RWY 22R: CLIMB HEADING 215.74 TO INTERCEPT COURSE 144.40 TO TJAYY, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...  
TAKEOFF RWY 27: CLIMB HEADING 272.58 TO INTERCEPT COURSE 235.00 TO KIRAA, THENCE...  
TAKEOFF RWY 33L: CLIMB HEADING 331.18 TO INTERCEPT COURSE 314.00 TO TEKKE, THEN ON TRACK 250.77 TO CROSS COUSY AT OR ABOVE 5000, THENCE...

...ON DEPICTED ROUTE TO PATSS. MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

**NOTE:** DME/DME/IRU OR GPS REQUIRED.  
**NOTE:** RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.  
**NOTE:** RNAV 1.  
**NOTE:** FOR TURBOJETS ONLY.  
**NOTE:** DEPARTURE HDG/RNAV TRACKS/VECTORS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.  
**NOTE:** RWY 15R, 22L, 22R: DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL.  
**NOTE:** AT/BELOW 250K UNTIL BRRRO.  
**NOTE:** AT/BELOW 290K UNTIL HEWMO.

**TAKEOFF MINIMUMS: RWY 4L, 14, 15L, 32, 33R, NA-ATC.**

**RWY 4R,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3600.

**RWY 9,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 4000.

**RWY 15R,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.

**RWY 22L,** 300-1 WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, OR STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520 IF TOWER REPORTS NO TALL VESSELS IN THE DEPARTURE AREA.

**RWY 22R,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.

**RWY 27,** STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300.

**RWY 33L,** STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 4900.



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**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 4R**, SHIPS BEGINNING 579 FT FROM DER, ON CENTERLINE, UP TO 50 FT AGL/50 FT MSL. POLE AND TREES BEGINNING 1806 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/79 FT MSL.

**NOTE: RWY 9**, SHIPS 762 FT FROM DER, ON CENTERLINE, UP TO 65 FT AGL/65 FT MSL. TANK 5904 FT FROM DER, 1453 FT LEFT OF CENTERLINE, 109 FT AGL/206 FT MSL.

**NOTE: RWY 15R**, SIGN 45 FT FROM DER, 267 FT RIGHT OF CENTERLINE, 6 FT AGL/16 FT MSL.

**NOTE: RWY 22L**, POLE 394 FT FROM DER, ON CENTERLINE, 15 FT AGL/31 FT MSL. TOWER 3585 FT FROM DER, 926 FT LEFT OF CENTERLINE, 108 FT AGL/128 FT MSL. MOBILE CRANE 3675 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 122 FT AGL/145 FT MSL. SHIP RIG 2440 FT FROM DER, 34 FT LEFT OF CENTERLINE, 176 FT AGL/176 FT MSL.

**NOTE: RWY 22R**, SHIP RIG 4064 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 176 FT AGL/176 FT MSL. STACKS BEGINNING 1.4 NM FROM DER, 2795 FT RIGHT OF CENTERLINE, UP TO 320 FT AGL/335 FT MSL.

**NOTE: RWY 27**, LIGHT POLE AND ROD BEGINNING 1690 FT FROM DER, 759 FT RIGHT OF CENTERLINE, UP 60 FT AGL/100 FT MSL.

**NOTE: RWY 33L**, ELECTRICAL SYSTEMS, BUILDINGS, CHIMNEY ON BUILDING, AND TANK BEGINNING 796 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/149 FT MSL. SIGN, WIND INDICATOR ON TOWER, AND TREES BEGINNING 248 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/101 FT MSL. BRIDGE 1.4 NM FROM DER, 2568 FT LEFT OF CENTERLINE, 262 FT AGL/262 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 9: 206 MSL TANK 422204.30N/0705803.73W.

RWY 22L: 176 MSL SHIP RIG 422041.00N/0710053.00W.

RWY 22R: 176 MSL SHIP RIG 422051.00N/0710110.00W.

RWY 27: 639 MSL BLDG 422120.28N/0710307.73W. 920 MSL BLDG 422050.00N/0710457.00W.

RWY 33L: 262 MSL BRIDGE 422308.76N/0710248.14W.

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: 5000.

REFERENCE MAG VAR: KBOS 16W EPOCH YEAR: 95. DME/DME ASSESSMENT: SAT (RNP 2.0).

**AIRPORTS SERVED:**

GENERAL EDWARD LAWRENCE LOGAN INTL

BOSTON, MA

**COMMUNICATIONS:**

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL

**FIXES AND/OR NAVAIDS:**

BRRRO, CHWDH, CMK VOR/DME, DEDHM, FENWY, GLLET, HEWMO, JAITE, KENWI, NELIE, ORRRR, STEEM, WYMTN.



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**REMARKS:**

ALL CLIMB GRADIENTS ESTABLISHED TO SUPPORT MINIMUM DME/DME/IRU RECEPTION RNAV PRO RUN ALTITUDES EXCEPT RWY 27 WHICH IS FOR OBSTACLES.  
RWY 27 920 MSL BLDG IS LOCATED JUST OUTSIDE OF OBSTACLE SEARCH TRAP. TAKEOFF MINIMUMS PROTECT AIRCRAFT FROM THE OBSTACLE.

**CHANGES:**

1. ADDED CHART: TOP ALTITUDE: 5000.

**REASONS:**

1. ATC REQUEST.

QUALITY  
15  
CHECKED



## DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
PATSS		FOUR	PATSS4.PATSS				THREE	07 MAR 2013	25 JUN 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04R (AER)*	422114.55N/0710037.27W*	N	-	-	-	-			*DISPL THLD (1154 FT)
520 MSL	-	-	-	VA	019.74	-			CG 500 FT/NM TO 3600
NHANT	422623.24N/0705759.97W	Y	FB	DF	-	-	AT/ABOVE 4000		
HURBE	422738.74N/0705107.04W	Y	FB	TF	076.09	5.25			
ORRRR	422528.48N/0704513.44W	Y	FB	TF	116.41	4.87			
CHWDH	421815.54N/0704346.94W	Y	FB	TF	171.56	7.29			
STEEM	421431.29N/0704932.29W	Y	FB	TF	228.87	5.68			
DEDHM	421144.30N/0705657.03W	Y	FB	TF	243.24	6.17			
PATSS	420520.66N/0714239.03W	Y	FB	TF	259.61	34.59			
RW09 (AER)	422120.72N/0710046.42W	N	-	-	-	-			
520 MSL	-	-	-	VA	076.56	-			CG 500 FT/NM TO 4000
CLAWW	422325.27N/0704847.67W	Y	FB	DF	-	-	AT/ABOVE 4000		
FENWY	422238.40N/0704340.17W	Y	FB	TF	101.59	3.88			
GLLET	421624.05N/0704321.25W	Y	FB	TF	177.85	6.24			
WYMTH	421244.02N/0704937.63W	Y	FB	TF	231.84	5.93			
DEDHM	421144.30N/0705657.03W	Y	FB	TF	259.68	5.53			
PATSS	420520.66N/0714239.03W	Y	FB	TF	259.61	34.59			
RW15R (AER)*	422221.20N/0710056.13W*	N	-	-	-	-			
-	422026.20N/0705822.01W	-	-	VI	135.16	2.70	AT/BELOW 210K		CG 500 FT/NM TO 520
FOXXX	421855.28N/0705410.54W	Y	FB	CF	116.00	3.46			VI/CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	4.64	AT/BELOW 250K		RECOMMENDED NAVAID BOS VOR/DME
JAITE	421812.90N/0704249.48W	Y	FB	TF	114.67	4.30			
HEWMO	421116.32N/0704400.45W	Y	FB	TF	187.22	7.00	AT/BELOW 290K		
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.40			
PATSS	420520.66N/0714239.03W	Y	FB	TF	263.24	34.64			



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DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
PATSS		FOUR	PATSS4.PATSS				THREE	07 MAR 2013	25 JUN 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW22L (AER)*	422225.69N/0710002.84W*	N	-	-	-	-			*DISPL THLD (1199 FT)
-	422004.85N/0710110.98W	-	-	VI	199.74	2.49		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	124.00	3.18			VI/CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
JAITE	421812.90N/0704249.48W	Y	FB	TF	114.67	4.30			
HEWMO	421116.32N/0704400.45W	Y	FB	TF	187.22	7.00		AT/BELOW 290K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.40			
PATSS	420520.66N/0714239.03W	Y	FB	TF	263.24	34.64			
RW22R (AER)*	422234.26N/0710019.93W*	N	-	-	-	-			*DISPL THLD (815 FT)
-	422029.09N/0710120.47W	-	-	VI	199.74	2.22		AT/BELOW 210K	CG 500 FT/NM TO 520
TJAYY	421818.19N/0705737.75W	Y	FB	CF	128.40	3.51			VI/CF PERMITTED
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.37	7.28		AT/BELOW 250K	RECOMMENDED NAVAID BOS VOR/DME
JAITE	421812.90N/0704249.48W	Y	FB	TF	114.67	4.30			
HEWMO	421116.32N/0704400.45W	Y	FB	TF	187.22	7.00		AT/BELOW 290K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.40			
PATSS	420520.66N/0714239.03W	Y	FB	TF	263.24	34.64			
RW27 (AER)	422136.78N/0705915.73W	N	-	-	-	-			
-	422058.84N/0710249.80W	-	-	VI	256.58	2.72			CG 500 FT/NM TO 1300
KIRAA	421631.48N/0710741.78W	Y	FB	CF	219.00	5.73			VI/CF PERMITTED
PATSS	420520.66N/0714239.03W	Y	FB	TF	246.93	28.29			RECOMMENDED NAVAID BOS VOR/DME
RW33L (AER)	422116.74N/0705929.71W	N	-	-	-	-			
	422317.97N/0710212.28W	-	-	VI	315.18	2.85			CG 500 FT/NM TO 4900
TEKKK	422445.85N/0710555.09W	Y	FB	CF	298.00	3.12			VI/CF PERMITTED
COUSY	422117.92N/0711231.70W	Y	FB	TF	234.77	6.00	AT/ABOVE 5000		RECOMMENDED NAVAID BOS VOR/DME
PATSS	420520.66N/0714239.03W	Y	FB	TF	234.70	27.48			