

**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SUPERSEDED NUMBER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>
LOGAN	FOUR	LOGAN4.BOS	THREE	10/07/2021	8 Sep 2022
<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"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:**JET AIRCRAFT:****TAKEOFF RWY 4L:** CLIMB ON HEADING 034.73 TO BOS 4.00 DME, THEN RIGHT TURN HEADING 090.00, THENCE...**TAKEOFF RWY 4R:** CLIMB ON HEADING 034.74 TO BOS 4.00 DME, THEN RIGHT TURN HEADING 090.00, THENCE...**TAKEOFF RWY 9:** CLIMB ON HEADING 091.56, THENCE...**TAKEOFF RWY 14:** CLIMB ON HEADING 140.65 TO BOS 1.02 DME, THEN LEFT TURN HEADING 120.00, THENCE...**TAKEOFF RWY 15R:** CLIMB ON HEADING 150.16 TO BOS 1.00 DME, THEN LEFT TURN HEADING 120.00, THENCE...**TAKEOFF RWY 22L/22R:** CLIMBING LEFT TURN HEADING 140.00, THENCE...**TAKEOFF RWY 27:** CLIMB ON HEADING 271.58 TO BOS 2.20 DME, THEN LEFT TURN HEADING 235.00, THENCE...**TAKEOFF RWY 33L:** CLIMB ON HEADING 330.18 TO BOS 2.00 DME, THEN LEFT TURN HEADING 316.00, THENCE...**NON JET AIRCRAFT:**

CLIMB ON ASSIGNED HEADING, THENCE...

...EXPECT RADAR VECTORS TO ASSIGNED ROUTE/NAVAID/FIX. JET AIRCRAFT MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. NON JET AIRCRAFT MAINTAIN 3000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN 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:** NON RNAV EQUIPPED AIRCRAFT CAN EXPECT VECTORS ON ASSIGNED ROUTE.**NOTE:** JET AIRCRAFT DEPARTURE HEADINGS/VECTORS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES. AIRCRAFT THAT ARE INITIALLY VECTORED OVER WATER CAN EXPECT TO CROSS THE COASTLINE ABOVE 6000 MSL BEFORE PROCEEDING ON COURSE.**NOTE:** BLZZR DEPARTURES EXPECT VECTORS ON BOS R-273, DME REQUIRED.**NOTE:** BRUWN DEPARTURES EXPECT VECTORS ON BOS R-159, DME REQUIRED.**NOTE:** CELTK DEPARTURES EXPECT VECTORS ON BOS R-114.**NOTE:** HYLND DEPARTURES EXPECT VECTORS ON BOS R-350, DME REQUIRED.**NOTE:** PATSS DEPARTURES EXPECT VECTORS ON BOS R-260, DME REQUIRED.**NOTE:** REVSS DEPARTURES EXPECT VECTORS ON BOS R-285, DME REQUIRED.**NOTE:** SSOXS DEPARTURES EXPECT VECTORS ON BOS R-177, DME REQUIRED.**PBN REQUIREMENTS NOTES:****EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

DME REQUIRED FOR JET AIRCRAFT DEPARTING RWY 4R, 4L, 14, 15R, 27, 33L.



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TAKEOFF MINIMUMS:**RWY 15L:** NA-ATC.**RWY 32, 33R:** NA - ENVIRONMENTAL.**RWY 4R, 15R:** STANDARD.**RWY 4L:** 300-1 OR STANDARD WITH MINIMUM CLIMB OF 369 FT PER NM TO 300.**RWY 9:** 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 266 FT PER NM TO 300.**RWY 14:** STANDARD WITH MINIMUM CLIMB OF 233 FT PER NM TO 1100.**RWY 22L:** 300-1 OR STANDARD IF TOWER REPORTS NO TALL VESSELS IN THE DEPARTURE AREA.**RWY 22R:** 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 300.**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 487 FT PER NM TO 1000.**RWY 33L:** 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 232 FT PER NM TO 400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2100 FEET PRIOR TO DER.**TAKEOFF OBSTACLES NOTES:**

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

CONTROLLING OBSTACLES:**RWY 4L:** 198 FT MSL TREE 422323.77N/0710017.02W.**RWY 9:** 211 FT MSL TANK 422204.30N/0705803.73W.**RWY 14:** 876 FT MSL BUILDING 422057.45N/0710430.58W.**RWY 22L:** 176 FT MSL SHIP RIG 422041.00N/0710053.00W.**RWY 22R:** 176 FT MSL SHIP RIG 422051.00N/0710110.00W.**RWY 27:** 876 FT MSL BUILDING 422057.45N/0710430.58W (CLIMB-TO ALTITUDE). 720 FT MSL BUILDING 422117.13N/0710323.41W (CLIMB GRADIENT).**RWY 33L:** 262 FT MSL BRIDGE 422308.76N/0710248.14W.**MSA:****LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:****CHART:** BOS R-273/35.3 DME AT BLZZR.**CHART:** BOS R-159/56.6 DME AT BRUWN.**CHART:** BOS R-114/39.8 DME AND LRV R-005/15.2 DME AT CELTK.**CHART:** BOS R-350/28.4 DME AT HYLND.**CHART:** BOS R-260/36.0 DME AT PATSS.**CHART:** BOS R-285/36.5 DME AT REVSS.**CHART:** BOS R-177/33.1 DME AND PVD R-091/31.4 DME AT SSOXS.**CHART:** BOS R-048/31.0 DME AT LBSTA.**CHART:** TOP ALTITUDE: (JETS) 5000/(PROPS) 3000.**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KBOS	BOSTON	MA

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, TOWER, DEP CON, CPDLC

FIXES AND/OR NAVAIDS:

ACK VOR/DME, BAF VORTAC, CAM VOR/DME, CTR VOR/DME, ENE VOR/DME, LRV VOR/DME, MVY VOR/DME, PVD VOR/DME, SEY VOR/DME, BLZZR, BOSOX, BRUWN, BURDY, CELTK, DUNKK, FREDO, FRILL, GLYDE, HANAA, HYLND, LBSTA, NELIE, PATSS, REVSS, SSOXS, MANCH, PEASE.

REMARKS:

ABBREVIATED AMENDMENT



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
LOGAN	FOUR	LOGAN4.BOS	THREE	10/07/2021	8 Sep 2022
<hr/>					
<u>FLIGHT INSPECTED BY</u>	<i>Digitally signed by</i>		<u>OFFICE</u>	<u>DATE</u>	
BOB S PRESSLER	DONALD H LANIER		FPO	05/18/2022	
	May 19, 2022				
<u>DEVELOPED BY</u>	<i>Digitally signed by</i>		<u>OFFICE</u>	<u>DATE</u>	
DONALD LANIER (MICAH HILLEY)	DONALD H LANIER		AJV-A431	04/04/2022	
	May 19, 2022				
<u>APPROVED BY</u>	<i>Digitally signed by</i>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CASIMIR TABAKA	DONALD H LANIER		AJV-A430		MANAGER
	May 19, 2022				
<u>REQUIRED EFFECTIVE DATE</u>					
ROUTINE					

COORDINATED WITH:

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

CHANGES - REASONS:

- 1: ADDED MANCH AND PEASE TO FIXES AND/OR NAVAIDS - PER FPT REQUEST; 8260.46H APPENDIX D SECTION 2 (15).
- 2: REMOVED AIRPORT NAME FROM AIRPORT SERVED - NO LONGER REQUIRED; 8260.46H APPENDIX D SECTION 2 (13).
- 3: MOVED RADAR REQUIRED FROM PROCEDURAL NOTES TO EQUIPMENT NOTES - 8260.46H APPENDIX D SECTION 2 (6).
- 4: MOVED "DME REQUIRED FOR JET AIRCRAFT DEPARTING RWY 4R, 4L, 14, 15R, 27, 33L" FROM PROCEDURAL DATA NOTES TO EQUIPMENT NOTES - 8260.46H APPENDIX D SECTION 2 (6).

