

**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SUPERSEDED NUMBER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	THREE	LOGAN3.BOS	TWO	10/12/2017	

<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:**

**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:** RADAR REQUIRED.

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

**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.



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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 500.

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: 876 FT MSL BUILDING 422057.45N/0710430.58W (CLIMB-TO ALTITUDE), 198 FT MSL TREE 422323.77N/0710017.02W (CLIMB GRADIENT, CEILING, VISIBILITY).

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.

**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 LFV 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 NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	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, LFV 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.

REMARKS:  
ABBREVIATED AMENDMENT.

<div>FLIGHT INSPECTED BY</div> <div>JEREMY R VIRT</div>	<div>Digitally signed by</div> <div>JOHN BORDY</div> <div>Jul 07, 2021</div>	<div>OFFICE</div> <div>FICO</div>	<div>DATE</div> <div>05/21/2021</div>	
<div>DEVELOPED BY</div> <div>ANTHONY CAPPABIANCO</div>	<div>Digitally signed by</div> <div>ANTHONY J CAPPABIANCO</div> <div>Mar 09, 2021</div>	<div>OFFICE</div> <div>AJV-A422</div>	<div>DATE</div> <div>12/29/2020</div>	
<div>APPROVED BY</div> <div>MARLON ROBINSON</div>	<div>Digitally signed by</div> <div>JOHN BORDY</div> <div>Jul 07, 2021</div>	<div>OFFICE</div> <div>AJV-A420</div>	<div>DATE</div> <div></div>	<div>TITLE</div> <div>MANAGER</div>

REQUIRED EFFECTIVE DATE  
ROUTINE

COORDINATED WITH:

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



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LOGAN	THREE	LOGAN3.BOS	TWO	10/12/2017	

# **CHANGES - REASONS:**

1. CHANGED "NOTE: HYLND DEPARTURES EXPECT VECTORS ON BOS R-350" TO "NOTE: HYLND DEPARTURES EXPECT VECTORS ON BOS R-350, DME REQUIRED" IN PROCEDURAL DATA NOTES - PSM VOR/DME BEING DECOMMISSIONED.
2. CHANGED "CHART: BOS R-350/28.4 DME AND PSM R-243/26.7 DME AT HYLND" TO "CHART: BOS R-350/28.4 DME AT HYLND" - PSM VOR/DME BEING DECOMMISSIONED.
3. CHANGED "ACK VOR/DME, BAF VORTAC, CAM VOR/DME, CMK VOR/DME, CTR VOR/DME, ENE VOR/DME, LFV VOR/DME, MHT VOR/DME, MVY VOR/DME, PSM VOR/DME, PVD VOR/DME, SEY VOR/DME, BLZZR, BOSOX, BRUWN, BURDY, CELTK, DUNKK, FREDO, FRILL, GLYDE, HANAA, HYLND, LBSTA, NELIE, PATSS, REVSS, SSOXS" TO "ACK VOR/DME, BAF VORTAC, CAM VOR/DME, CTR VOR/DME, ENE VOR/DME, LFV 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" - PSM VOR/DME, MHT VOR/DME, AND CMK VOR/DME BEING DECOMMISSIONED.
4. CHANGED "ABBREVIATED AMENDMENT, DOES NOT MEET PERIODIC REVIEW REQUIREMENTS" TO "ABBREVIATED AMENDMENT" IN REMARKS - 8260.46G APPENDIX D, SECTION 2.14.C.
5. REMOVED "ATC HEADINGS IN DP ROUTE DESCRIPTION WERE NOT CHANGED FOR THIS MAGVAR UPDATE" FROM REMARKS - UPDATE MADE LAST AMENDMENT.
6. CHANGED RWY 27 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 477 FT PER NM TO 1300" TO "STANDARD WITH MINIMUM CLIMB OF 487 FT PER NM TO 1000" - NEW CONTROLLING OBSTACLES.
7. CHANGED RWY 27 CONTROLLING OBSTACLES FROM "925 FT MSL BUILDING 422049.80N/0710457.08W (CLIMB-TO ALTITUDE). 643 FT MSL BUILDING 422120.28N/0710307.73W (CLIMB GRADIENT)" TO "876 FT MSL BUILDING 422057.45N/0710430.58W (CLIMB-TO ALTITUDE). 720 FT MSL BUILDING 422117.13N/0710323.41W (CLIMB GRADIENT)" - NEW OBSTACLE EVALUATION.
8. REPLACED TAKEOFF OBSTACLE NOTES WITH "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)" - 8260.46G APPENDIX D, SECTION 2.7.
9. CHANGED COMMUNICATIONS FROM "ATIS, CLNC DEL, GND CON, TOWER, DEP CON" TO "ATIS, CLNC DEL, GND CON, TOWER, DEP CON, CPDLC" - CPDLC ADDED IAW 8260.46G APPENDIX D, SECTION 2.12.
10. CHANGED RWY 4L DP ROUTE DESCRIPTION FROM "CLIMB HEADING 034.73 TO BOS 4.00 DME, THEN TURN RIGHT HEADING 090.00, THENCE..." TO "CLIMB ON HEADING 034.73 TO BOS 4.00 DME, THEN RIGHT TURN HEADING 090.00, THENCE..." - 8260.46G 1-1-5.A(3), 8260.46G APPENDIX D, SECTION 2, FIGURE D-6.
11. CHANGED RWY 4R DP ROUTE DESCRIPTION FROM "CLIMB HEADING 034.74 TO BOS 4.00 DME, THEN TURN RIGHT HEADING 090.00, THENCE..." TO "CLIMB ON HEADING 034.74 TO BOS 4.00 DME, THEN RIGHT TURN HEADING 090.00, THENCE..." - 8260.46G 1-1-5.A(3), 8260.46G APPENDIX D, SECTION 2, FIGURE D-6.
12. CHANGED RWY 9 DP ROUTE DESCRIPTION FROM "CLIMB HEADING 091.56, THENCE..." TO "CLIMB ON HEADING 091.56, THENCE..." - 8260.46G 1-1-5.A(3).
13. CHANGED RWY 14 DP ROUTE DESCRIPTION FROM "CLIMB HEADING 140.65 TO BOS 1.02 DME, THEN TURN LEFT HEADING 120.00, THENCE..." TO "CLIMB ON HEADING 140.65 TO BOS 1.02 DME, THEN LEFT TURN HEADING 120.00, THENCE..." - 8260.46G 1-1-5.A(3), 8260.46G APPENDIX D, SECTION 2, FIGURE D-6.
14. CHANGED RWY 15R DP ROUTE DESCRIPTION FROM "CLIMB HEADING 150.16 TO BOS 1.00 DME, THEN TURN LEFT HEADING 120.00, THENCE..." TO "CLIMB ON HEADING 150.16 TO BOS 1.00 DME, THEN LEFT TURN HEADING 120.00, THENCE..." - 8260.46G 1-1-5.A(3), 8260.46G APPENDIX D, SECTION 2, FIGURE D-6.
15. CHANGED RWY 27 DP ROUTE DESCRIPTION FROM "CLIMB HEADING 271.58 TO BOS 2.20 DME, THEN LEFT TURN HEADING 235.00, THENCE..." TO "CLIMB ON HEADING 271.58 TO BOS 2.20 DME, THEN LEFT TURN HEADING 235.00, THENCE..." - 8260.46G 1-1-5.A(3), 8260.46G APPENDIX D, SECTION 2, FIGURE D-6.
16. CHANGED RWY 33L DP ROUTE DESCRIPTION FROM "CLIMB HEADING 330.18 TO BOS 2.00 DME, THEN LEFT TURN HEADING 316.00, THENCE..." TO "CLIMB ON HEADING 330.18 TO BOS 2.00 DME, THEN LEFT TURN HEADING 316.00, THENCE..." - 8260.46G 1-1-5.A(3), 8260.46G APPENDIX D, SECTION 2, FIGURE D-6.
17. CHANGED RWY 4L TAKEOFF MINIMUMS FROM "300-1 OR STANDARD WITH MINIMUM CLIMB OF 358 FT PER NM TO 300" TO "300-1 OR STANDARD WITH MINIMUM CLIMB OF 369 FT PER NM TO 500" - NEW CONTROLLING OBSTACLES.
18. CHANGED RWY 9 TAKEOFF MINIMUMS FROM "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 272 FT PER NM TO 300" TO "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 266 FT PER NM TO 300" - NEW CONTROLLING OBSTACLES.
19. CHANGED RWY 14 TAKEOFF MINIMUMS FROM "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 225 FT PER NM TO 300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1600 FT PRIOR TO DER" TO "STANDARD WITH MINIMUM CLIMB OF 233 FT PER NM TO 1100" - NEW CONTROLLING OBSTACLES.
20. CHANGED RWY 22R TAKEOFF MINIMUMS FROM "400-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 500" TO "300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 300" - NEW CONTROLLING OBSTACLES.
21. CHANGED RWY 33L TAKEOFF MINIMUMS FROM "300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 224 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 1900 FEET PRIOR TO DER" TO "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" - NEW CONTROLLING OBSTACLES.
22. CHANGED RWY 4L CONTROLLING OBSTACLES FROM "198 FT MSL TREE 422323.77N/0710017.02W" TO "876 FT MSL BUILDING 422057.45N/0710430.58W (CLIMB-TO ALTITUDE), 198 FT MSL TREE 422323.77N/0710017.02W (CLIMB GRADIENT, CEILING, VISIBILITY)" - NEW OBSTACLE EVALUATION.
23. CHANGED RWY 9 CONTROLLING OBSTACLES FROM "217 FT MSL OBSTACLE LIGHT 422204.27N/0705804.01W" TO "211 FT MSL TANK 422204.30N/0705803.73W" - NEW OBSTACLE EVALUATION.
24. CHANGED RWY 14 CONTROLLING OBSTACLES FROM "176 FT MSL SHIP RIG 422009.00N/0705945.00W" TO "876 FT MSL BUILDING 422057.45N/0710430.58W" - NEW OBSTACLE EVALUATION.
25. CHANGED RWY 22R CONTROLLING OBSTACLES FROM "265 FT MSL STACK 422018.01N/0710204.79W (CLIMB-TO ALTITUDE, CEILING, VISIBILITY). 176 FT MSL SHIP RIG 422051.00N/0710110.00W (CLIMB GRADIENT)" TO "176 FT MSL SHIP RIG 422051.00N/0710110.00W" - NEW OBSTACLE EVALUATION.

