

**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SUPERSEDED NUMBER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>
BLZZR (RNAV)	SIX	BLZZR6.BLZZR	FIVE	12/02/2021	30 Nov 2023
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
☐	☐	☒	☐	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4R: CLIMB ON HEADING 034.74 TO 520, THEN DIRECT NHANT, THEN ON TRACK 091.09 TO CROSS HURBE AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 9: CLIMB ON HEADING 091.56 TO 520, DIRECT TO CROSS CLAWW AT OR ABOVE 4000 AND AT OR BELOW 250 KIAS, THENCE....

TAKEOFF RWY 15R: CLIMB ON HEADING 150.16 TO INTERCEPT COURSE 119.92 TO TASKT, DO NOT EXCEED 210 KIAS UNTIL 520 FT MSL, THENCE...

TAKEOFF RWY 22L: CLIMB ON HEADING 214.74 TO INTERCEPT COURSE 137.15 TO CROSS TJAYY AT OR ABOVE 1200 AND AT OR BELOW 210 KIAS, THENCE...

TAKEOFF RWY 22R: CLIMB ON HEADING 214.74 TO INTERCEPT COURSE 142.35 TO CROSS TJAYY AT OR ABOVE 1200 AND AT OR BELOW 210 KIAS, THENCE..

TAKEOFF RWY 27: CLIMB ON HEADING 271.58 TO INTERCEPT COURSE 237.16 TO KIRAA, THENCE...

TAKEOFF RWY 33L: CLIMB ON HEADING 330.17 TO INTERCEPT COURSE 313.94 TO TEKKE, THENCE...

...ON DEPICTED ROUTE TO BLZZR. MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN 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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PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY.

TAKEOFF MINIMUMS:

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

RWY 4R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 520.

RWY 9: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 520.

RWY 15R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 520.

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



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RWY 22R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 520.

RWY 27: STANDARD WITH A MINIMUM CLIMB OF 500 FT/NM TO 1300.

RWY 33L: STANDARD WITH A MINIMUM CLIMB OF 500 FT/NM TO 520.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 9: 211 FT MSL TANK 422204.30N/0705803.73W.

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

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

RWY 27: 720 FT MSL BUILDING 422117.13N/0710323.41W (CLIMB GRADIENT), 876 FT MSL BLDG_TWR 422057.45N/0710430.58W (CLIMB-TO ALTITUDE)

MSA:

MSA FROM KBOS 2500

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

AIRPORT MV: BOS 15W/2020

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: TOP ALTITUDE: 5000.

CHART SPEED ICON: MAXIMUM SPEED 210 KIAS AT TJAYY.

CHART SPEED ICON: MAXIMUM SPEED 250 KIAS AT BRRRO.

CHART SPEED ICON: MAXIMUM SPEED 250 KIAS AT CLAWW.

CHART SPEED ICON: MAXIMUM SPEED 260 KIAS AT HEWMO.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KBOS	GENERAL EDWARD LAWRENCE LOGAN INTL	MA

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

BAF VORTAC, BRRRO, CHWDH, CTR VOR/DME, DEDHM, EXXXX, FENWY, GLLET, HEWMO, JAITE, KENWI, NELIE, ORRRR, SPENO, STEEM, WYMTN

REMARKS:

MAXIMUM 100 FT VEGETATION HEIGHT APPLIED.

MSA CONTROLLING OBSTACLE: 1462 FT MSL TOWER (25-00619) 422302.73N/0712935.33W.

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1F AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED. IN ACCORDANCE WITH THE MASSPORT ADVISORY COMMITTEE ON COMMUNITY NOISE REDUCTION, ALL CLIMB GRADIENTS, SPEED NOTES, AND CHART NOTES REGARDING NOISE ARE REMAINING ON THE PROCEDURE TO ENSURE FLIGHT CREW AWARENESS AND COMPLIANCE.

RWY 9: APPLIES A 500 FT/NM LNAV ENGAGEMENT CLIMB GRADIENT/ALTITUDE. THE OBSTACLE REQUIRED CLIMB GRADIENT IS 266 FT/NM TO 300.

RWY 22L: LNAV ENGAGEMENT CLIMB GRADIENT OF 500 FT/NM APPLIED WITH CEILING/VISIBILITY MITIGATION OF 176' SHIP AND IF NO SHIPS ARE REPORTED BY ATC.

RWY 22R: APPLIES A 500 FT/NM LNAV ENGAGEMENT CLIMB GRADIENT/ALTITUDE. THE OBSTACLE REQUIRED CLIMB GRADIENT IS 319 FT/NM TO 300.

RWY 27: APPLIES A 500 FT/NM LNAV ENGAGEMENT CLIMB GRADIENT/ALTITUDE. THE OBSTACLE REQUIRED CLIMB GRADIENT IS 487 FT/NM TO 1000. CLIMB-TO ALTITUDE OF 1300 APPLIED PER ATC REQUEST FOR NOISE ABATEMENT.

RWY 33L: 500 FT/NM CLIMB GRADIENT REQUIRED TO APPLY MINIMUM VI LEG LENGTH IAW THE 8260-58B, 5-3-1 (B). 2

APPROVAL LETTER: RWY 4R AND RWY 9 USE NON-STANDARD CLIMB GRADIENTS FOR NOISE SENSITIVE AREAS.



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<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	
BOB S PRESSLER		ERIC N SUSKI Sep 18, 2023	FPO	09/15/2023	
<u>DEVELOPED BY</u>	<u>SIGNATURE</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	
SCOTT LINDHOLM		DAVID TEFFETELLER Aug 25, 2023	AJV-A431	06/08/2023	
<u>APPROVED BY</u>	<u>SIGNATURE</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ERIC SUSKI		DAVID TEFFETELLER Aug 25, 2023	AJV-A431	11/30/2023	MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

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

CHANGES - REASONS:**CHANGES:**

1. MOVED TJAYY WAYPOINT .4 NM NORTHWEST.
2. ADDED CROSSING ALTITUDE AND SPEED RESTRICTION AT TJAYY OF AT OR ABOVE 1200 AND NOT TO EXCEED 210 KIAS.
3. MOVED JAITE WAYPOINT .45 NM SOUTH.
4. MOVED HEWMO WAYPOINT .07 NM WEST.
5. DP ROUTE DESCRIPTION: CHANGED LEG HEADING TO TJAYY ON RWY 22L TRANSITION FROM 139 TO 137.15.
6. DP ROUTE DESCRIPTION: CHANGED LEG HEADING TO TJAYY ON RWY 22R TRANSITION FROM 143.40 TO 142.35.
7. DP ROUTE DESCRIPTION: CHANGED LEG HEADING TO KIRAA ON RWY 27 TRANSITION FROM 234 TO 237.16.
8. DP ROUTE DESCRIPTION: CHANGED LEG HEADING TO TASKT ON RWY 15R TRANSITION FROM 119 TO 119.92.
9. DP ROUTE DESCRIPTION: CHANGED LEG HEADING TO TEKKE ON RWY 33L TRANSITION FROM 313 TO 313.94
10. PROCEDURAL DATA NOTES: ADDED CHART NOTE: DO NOT EXCEED 210K UNTIL PASSING TJAYY.
11. PROCEDURAL DATA NOTES: CHANGED CHART NOTE: FOR TURBOJETS ONLY TO NOTE: JET AIRCRAFT ONLY.
12. PROCEDURAL DATA NOTES: REMOVED REFERENCE TO RWY 22L/R IN CHART NOTE: RWY 15R, 22L/R: DO NOT EXCEED 210K UNTIL LEAVING 520 FT MSL.
13. MOVED CLAWW WAYPOINT .03NM EAST.
14. REPLACED PROCEDURAL DATA NOTES FROM "DME/DME/IRU OR GPS REQUIRED" AND "RNAV-1" TO PBN REQUIREMENTS NOTE "RNAV 1 - DME/DME/IRU OR GPS".
15. ADDED MSA FROM KBOS 2500.
16. DELETED DEP CON FROM COMMUNICATIONS.
17. CHANGED MAG VAR FROM "REFERENCE MAG VAR: KBOS 15W, EPOCH YEAR 2020" TO "AIRPORT MV: BOS 15W/2020"
18. ADDED "MAXIMUM 100 FT VEGETATION HEIGHT APPLIED" AND "MSA CONTROLLING OBSTACLE: 1462 FT MSL TOWER 422302.73N/0712935.33W".

REASONS:

1. FPT/ATC REQUEST DUE TO COMMUNITY COORDINATION FOR NOISE ABATEMENT.
2. CRITERIA REQUIRMENTS PER 8260.58C 1-2-5B(1)A.
3. MITIGATE LEG LENGTH ERRORS PER 8260.58C 1-2-5B(1)A.
4. REQUIRED AFTER MOVING JAITE TO MAINTAIN COMPLIANCE WITH PREVIOUS RECORD OF DECISION ON SHORE CROSSING POINTS.
- 5-6. FPT/ATC REQUEST TO RELOCATE TJAYY TO SUPPORT NOISE ABATEMENT PER COMMUNITY REQUEST..
- 7-9. MINIMUM VI-CF SEGMENT CRITERIA APPLIED FOR NOISE ABATEMENT IAW 8260-58B, 5-3-1 A (1)(B)2.
10. FLIGHT CREW AWARENESS AND CHART CONSISTENCY.
11. CHARTING CONSISTENCY.
12. NO LONGER NEEDED WITH NEW SPEED CONSTRAINT ADDED TO TJAYY.
13. MITIGATE CLIMB GRADIENT CRITERIA PER ORDER 8260.46J, PARA 2-1-1E(2)(B)2.
14. CRITERIA UPDATE.
15. IAW 8260.46J, APPENDIX E(2)(K).



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16. IAW 8260.46J, APPENDIX E (2) (O).

17. IAW AJV-A MEMORANDUM, "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES", DATED 07/15/2022.

18. IAW 8260.46J, 2-1-1(M).

08/24/23: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/08/23.

CHANGED ALL REFERENCE TO 519 IN THE DP ROUTE DESCRIPTION, PROCEDURAL DATA NOTES, TAKEOFF MINIMUMS AND THE DEPARTURE (DATA RECORD) SECTIONS TO 520.

Digitally signed by

ERIC N SUSKI

Sep 20, 2023

09/22/2023 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/08//2023.

1. 8260-15B: REMOVED PROCEDURAL DATA NOTE: DEPARTURE HDG/RNAV TRACK PREDICATED ON AVOIDING NOISE SENSITIVE AREAS. FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.

2. 8260-15B: REMOVED THE FOLLOWING PROCEDURAL DATA NOTES: DO NOT EXCEED 210 KIAS UNTIL PASSING TJAYY, DO NOT EXCEED 250 KIAS UNTIL PASSING BRRRO, NO NOT EXCEED 250 KIAS UNTIL PASSING CLAWW, RWY 15R: DO NOT EXCEED 210 KIAS UNTIL LEAVING 520 FT MSL.

Digitally signed by

ERIC N SUSKI

Sep 26, 2023



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
BLZZR (RNAV)		SIX		BLZZR6.BLZZR		FIVE		12/02/2021		30 Nov 2023	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW04R (AER)*	422114.55N/0710037.27W	N	-	-	-	-			*DISPL THLD (1155)		
520 MSL	-	-	-	VA	019.74	-	AT/ABOVE 520		CG 500 FT/NM TO 520		
NHANT	422623.24N/0705759.97W	Y	FB	DF	-	-					
HURBE	422738.74N/0705107.04W	Y	FB	TF	076.09	5.25	AT/ABOVE 4000				
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	421530.00N/0704841.00W	Y	FB	TF	232.86	4.57					
DEDHM	421144.30N/0705657.03W	Y	FB	TF	238.57	7.20					
BLZZR	421302.39N/0714536.59W	Y	FB	TF	272.33	36.19					
RW09 (AER)	422120.72N/0710046.42W	N	-	-	-	-					
520 MSL	-	-	-	VA	076.56	-	AT/ABOVE 520		CG 500 FT/NM TO 520		
CLAWW	422325.73N/0704845.02W	Y	FB	DF	-	-	AT/ABOVE 4000	AT/BELOW 250K			
FENWY	422211.10N/0704306.02W	Y	FB	TF	105.51	4.37					
GLLET	421624.05N/0704321.25W	Y	FB	TF	181.87	5.79					
WYMTH	421253.23N/0704920.52W	Y	FB	TF	231.73	5.67					
DEDHM	421144.30N/0705657.03W	Y	FB	TF	258.56	5.77					
BLZZR	421302.39N/0714536.59W	Y	FB	TF	272.33	36.19					
RW15R (AER)*	422221.20N/0710056.13W	N	-	-	-	-			*DISPL THLD (882 FT)		
-	422033.81N/0705832.19W	-	-	VI	135.16	2.52		AT/BELOW 210K	CG 500 FT/NM TO 520		
TASKT	421917.76N/0705206.54W	Y	FB	CF	104.92	4.93					

QUALITY

16

QUALITY
16
CHECKED

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BLZZR (RNAV)		SIX		BLZZR6.BLZZR		FIVE		12/02/2021	30 Nov 2023
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BRRRO	422000.78N/0704805.48W	Y	FB	TF	076.45	3.07	AT/ABOVE 3000	AT/BELOW 250K	
JAITE	421747.86N/0704235.37W	Y	FB	TF	118.45	4.64			
HEWMO	421115.55N/0704406.13W	Y	FB	TF	189.76	6.63	AT/ABOVE 5000	AT/BELOW 260K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.33			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	275.68	36.71			
RW22L (AER)*	422225.69N/0710002.85W	N	-	-	-	-			*DISPL THLD (1199 FT)
-	422007.04N/0710109.91W	-	-	VI	199.74	2.45			CG 500 FT/NM TO 520
TJAYY	421837.22N/0705757.21W	Y	FB	CF	122.15	2.81	AT/ABOVE 1200	AT/BELOW 210K	
BRRRO	422000.78N/0704805.48W	Y	FB	TF	079.17	7.45	AT/ABOVE 3000	AT/BELOW 250K	
JAITE	421747.86N/0704235.37W	Y	FB	TF	118.45	4.64			
HEWMO	421115.55N/0704406.13W	Y	FB	TF	189.76	6.63	AT/ABOVE 5000	AT/BELOW 260K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.33			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	275.68	36.71			
RW22R (AER)*	422234.26N/0710019.93W	N	-	-	-	-			*DISPL THLD (819 FT)
-	422031.57N/0710119.26W	-	-	VI	199.74	2.17			CG 500 FT/NM TO 520
TJAYY	421837.22N/0705757.21W	Y	FB	CF	127.35	3.14	AT/ABOVE 1200	AT/BELOW 210K	
BRRRO	422000.78N/0704805.48W	Y	FB	TF	079.17	7.45	AT/ABOVE 3000	AT/BELOW 250K	
JAITE	421747.86N/0704235.37W	Y	FB	TF	118.45	4.64			
HEWMO	421115.55N/0704406.13W	Y	FB	TF	189.76	6.63	AT/ABOVE 5000	AT/BELOW 260K	
KENWI	420934.89N/0705626.99W	Y	FB	TF	259.72	9.33			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	275.68	36.71			



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BLZZR (RNAV)		SIX		BLZZR6.BLZZR		FIVE		12/02/2021	30 Nov 2023
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW27 (AER)	422136.78N/0705915.73W	N	-	-	-	-			
-	422106.67N/0710205.64W	-	-	VI	256.58	2.16			CG 500 FT/NM TO 1300
KIRAA	421631.48N/0710741.78W	Y	FB	CF	222.16	6.19			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	263.16	28.37			
RW33L (AER)	422116.74N/0705929.71W	N	-	-	-	-			
-	422310.18N/0710201.85W	-	-	VI	315.17	2.67			CG 500 FT/NM TO 520
TEKKK	422445.85N/0710555.09W	Y	FB	CF	298.94	3.29			
EXXXX	422037.08N/0712104.57W	Y	FB	TF	249.84	11.97			
BLZZR	421302.39N/0714536.59W	Y	FB	TF	247.55	19.72			

