

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> BWI	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 15R	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BALTIMORE	<u>STATE</u> MD
<u>AIRPORT ELEVATION</u> 143	<u>TDZE</u> 138	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 15R	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 10/16/2014
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 SEPTEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 11W
				<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HUEYP	IAF	LIIVY		TF	FB	1.00	245.19	3.37	4000
ZARTZ	IAF	LESHA		TF	FB	1.00	064.90	3.35	4000
KYYLO	IAF	BMORE		TF	FB	1.00	155.07	2.98	4000
BMORE	IAF	KAHNN		TF	FB	1.00	155.10	4.40	3000
LIIVY		KAHNN		RF	FB	1.00	(2.16 NM RADIUS CCW (CFLCJ))	3.40	3000
LESHA		KAHNN		RF	FB	1.00	(2.17 NM RADIUS CW (CFLCM))	3.41	3000
KAHNN	IF	KEVVN	PFAF	TF	FB	0.30	155.13	3.18	2000
KEVVN	PFAF	RW15R	MAP	TF	FO	0.30	155.16	5.67	
RW15R	MAP	JANNS		TF	FO	1.00	155.20	14.21	2500

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 ON TRACK 155.20 TO JANNS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. PROFILE STARTS AT KAHNN
3. FAC: 155.16

PFAF: KEVVN

DIST PFAF TO MAP:

DIST PFAF TO THLD:
4. MIN ALT: KAHNN 3000, KEVVN 2000
5. DIST TO THLD FROM PFAF: 5.67

MM:

IM:

150 HAT:

375 HAT:

1.00

GS ANT:
6. MIN GP INCPT: 2000

GP ALT AT PFAF: KEVVN 2000

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 55.7
8. MSA FROM: RW15R 2600



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 15L.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.11 DA ALL CATS VISIBILITY TO RVR 5500.

CHART SPEED ICON IN PLANVIEW AT HUEYP: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT ZARTZ: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KYYLO: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BMORE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 335.31 INBOUND.
CHART MANDATORY 5000 AT HUEYP.
CHART MANDATORY 4000 AT ZARTZ.
CHART AT OR ABOVE 4000 AT KYYLO.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.11 DA	513	3500	375	513	3500	375	513	3500	375	513	3500	375			
RNP 0.30 DA	587	4500	449	587	4500	449	587	4500	449	587	4500	449			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED "EMI VORTAC TO BMORE" AND "BMORE TO KEVVN" – PROCEDURE REDESIGNED FOR NOISE ABATEMENT..
2. TERMINAL ROUTES: ADDED "KYYLO TO BMORE", "BMORE TO KAHNN", "HUEYP TO LIIVY", "ZARTZ TO LESHA", "LESHA TO KAHNN", "LIIVY TO KAHNN", "KAHNN TO KEVVN", "RW15R TO 461 MSL" AND "461 MSL TO JANNS" – PROCEDURE REDESIGNED FOR NOISE ABATEMENT AND IAW 8260.19I 8-6-4.
3. TERMINAL ROUTES: KEVVN TO RW 15R COURSE AND DISTANCE UPDATED FROM "155.15/5.99" TO "155.16/5.67" - FIX KEVVN RELOCATED.
4. PROFILE LINE 2: PROFILE STARTS AT CHANGED FROM "BMORE" TO KAHNN" – IAW 8260.19I 8-6-7B(3)(A).
5. PROFILE LINE 3: CHANGED FAC FROM "155.15" TO "155.16" - FIX KEVVN RELOCATED.
6. PROFILE LINE 4: CHANGED FROM "BMORE 2500, KEVVN 2100" TO "KAHNN 3000, KEVVN 2000" – IAW 8260.19I 8-6-7D.
7. PROFILE LINE 5: ADDED "375 HAT: 1.00 NM" AND REMOVED FROM ADDITIONAL FLIGHT DATA – IAW 8260.19I 8-6-7E(3).
8. PROFILE LINE 5: CHANGED "DIST TO THLD FROM OM: 5.99" TO "DIST TO THLD FROM PFAF: 5.67 – IAW 8260.19I 8-6-7E AND FIX KEVVN RELOCATED.
9. PROFILE LINE 6: CHANGED MIN GP INCPT FROM "2100" TO "2000" AND GP ALT AT PFAF FROM "KEVVN 2100" TO "KEVVN 2000" – FAF ALTITUDE CHANGED TO KEEP 3.00 GS.
10. PROFILE LINE 7: ADDED "20:1 IS CLEAR" – IAW 8260.19I 8-6-7G(3)(A).
11. PROFILE LINE 7: CHANGED TCH FROM "55.6#" TO "55.7" – NEW DESIGN TCH.
12. PROFILE LINE 8: UPDATED MSA FROM: "RW15R 2800" TO "RW15R 2600" – NEW CONTROLLING OBSTACLE.
13. PBN REQUIREMENTS NOTE: ADDED "RNP AR APCH – GPS" REMOVED FROM NOTES – IAW 8260.19I 8-6-8B(2).
14. NOTES: CHANGED FROM CHART NOTE" "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 54C (130F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11°C OR ABOVE 54°C" – IAW 8260.19I 8-6-9R AND NEW 5 YEAR STUDY.
15. NOTES: ADDED "CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 15L" - IAW 8260.19I 8-6-12O(8)(B).
16. NOTES: REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EMI VORTAC AIRWAY RADIALS 151 CW 187" – EMI VORTAC NO LONGER USED ON APPROACH.
17. NOTES: ADDED "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" – IAW 8260.19I 8-6-9M(1).
18. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT HUEYP: MAX 210 KIAS", "CHART SPEED ICON IN PLANVIEW AT ZARTZ: MAX 210 KIAS", "CHART SPEED ICON IN PLANVIEW AT KYYLO: MAX 210 KIAS" AND "CHART SPEED ICON IN PLANVIEW AT BMORE: MAX 210 KIAS" - TO MEET LEG LENGTH REQUIREMENTS, IAW 8260.19I 8-6-9.
19. NOTES: CHANGED FROM CHART NOTE: "FOR INOPERATIVE MALSR, INCREASE RNP 0.11 DA ALL CATS VISIBILITY TO 1 1/4 MILE , AND RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 MILE" TO "FOR INOPERATIVE ALS, INCREASE RNP 0.11 DA ALL CATS VISIBILITY TO RVR 5500" - IAW 8260.19I, 8-6-11 (O)(3)(E).
20. ADDITIONAL FLIGHT DATA: REMOVED " CHART FAS OBST: 300 TREE 391152N/0764055W" AND "CHART FAS OBST: 265 ANT 391150N/0764121W" – NEW OBSTACLE STUDY.
21. ADDITIONAL FLIGHT DATA: REMOVED "ROUTE TYPE QUALIFIER 1: F", "ROUTE TYPE: A,H" AND "ROUTE TYPE QUALIFIER 2: S" – NO LONGER REQUIRED.
22. ADDITIONAL FLIGHT DATA: ADDED "CHART MANDATORY 5000 AT HUEYP", "CHART MANDATORY 4000 AT ZARTZ" AND "CHART AT OR ABOVE 4000 AT KYYLO" - IAW 8260.3E 2-2-7F(1) AND FPT/ATC REQUEST.
23. ADDITIONAL FLIGHT DATA: REMOVED "CHART MANDATORY 4000 AT EMI VORTAC", "CHART MANDATORY 2500 AT BMORE" AND "CHART MANDATORY 2100 AT KEVVN" - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
24. MINIMUMS: CHANGED RNP 0.11 DA ALL CATS VIS FROM "3800" TO "3500" - IAW 8260.3E TABLE 3-3-1.
25. MINIMUMS: CHANGED RNP 0.30 DA ALL CATS VIS FROM "5200" TO "4500" - IAW 8260.3E TABLE 3-3-1.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, POTOMAC APP CON, BWI ATCT, AMGR.

FLIGHT CHECKED BY

MICHAEL G CAMPBELL

Digitally signed by
ERIC N SUSKI

Jul 25, 2024

OFFICE

FPO

DATE

07/23/2024

DEVELOPED BY

ERIC N SUSKI (EMMANUEL R. GONZALES)

Digitally signed by
ERIC N SUSKI

Jul 25, 2024

OFFICE

AJV-A431

DATE

02/14/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by
ERIC N SUSKI

Jul 25, 2024

OFFICE

AJV-A431

DATE

TITLE
MANAGER

