

**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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
BWI	RNAV (RNP) Z RWY 10	3	BALTIMORE	MD	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
143	143	RNAV (RNP) Z RWY 10	09/08/2022	11W	2000
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	
RNAV			ROUTINE		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
REMMY	IAF	COLUM		TF	FB	1.00	104.98	5.88	3000
COLUM	IAF	EFFYS		TF	FB	1.00	105.06	3.19	2300
ANCRR	IF	BEGUE		TF	FB	1.00	310.77	2.99	4000
BEGUE		CATVI		RF	FB	1.00	(3.46 NM RADIUS CW (CFBBX))	3.15	3500
CATVI		VOBIH		TF	FB	1.00	002.94	2.29	2800
VOBIH		JEANS		RF	FB	1.00	(2.31 NM RADIUS CW (CFBBZ))	4.12	1500
EFFYS	IF	JEANS		TF	FB	1.00	105.10	3.00	1500
STRPS	IF	DEDLE		TF	FB	1.00	193.67	4.22	3000
DEDLE		EDMEF		RF	FB	1.00	(2.25 NM RADIUS CCW (CFFGQ))	3.48	2000
EDMEF		JEANS		TF	FB	1.00	105.00	1.79	1500
JEANS	PFAF	RW10	MAP	TF	FO	0.30	105.14	4.09	
RW10	MAP	HURTZ		TF	FO	1.00	105.20	13.51	2500

**MISSED APPROACH**

**MAP:**

RNP: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2500 ON TRACK 105.20 TO HURTZ AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT JEANS														
3.	FAC:	105.14	PFAF:	JEANS	DIST PFAF TO MAP:	DIST PFAF TO THLD:									
4.	MIN ALT:	JEANS 1500													
5.	DIST TO THLD FROM PFAF:	4.09	MM:	IM:	150 HAT:	301 HAT:	0.78	GS ANT:							
6.	MIN GP INCPT:	1500	GP ALT AT PFAF:	JEANS 1500		OM:		MM:		IM:					
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	54.8							
8.	MSA FROM:	RW10 2600													

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11°C OR ABOVE 54°C.  
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 4500, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/8 SM.

CHART SPEED ICON IN PLANVIEW AT ANCRR: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT STRPS: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART R-4001B.  
  
HOLD E, RT, 285.38 INBOUND.  
CHART MANDATORY 4000 AT ANCRR.  
CHART MANDATORY 4000 AT BEGUE.  
CHART MANDATORY 4000 AT STRPS.

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	444	2400	301	444	2400	301	444	2400	301	444	2400	301			
RNP 0.30 DA	628	5000	485	628	5000	485	628	5000	485	628	5000	485			

CHANGES - REASONS

1. TERMINAL ROUTES: ADDED IAF REMMY-COLUM, IAF COLUM-EFFYS, IF EFFYS-JEANS, AND REMOVED IF COLUM-EDMEF AND EDMEF-JEANS. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
2. TERMINAL ROUTES: CHANGED ANCRR-BEGUE COURSE/DIST/ALT FROM 31.88/3.00/3500 TO 310.77/2.99/4000. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
3. TERMINAL ROUTES: CHANGED BEGUE-CTAVI DIST/ALT FROM 3.14/2600 TO 3.15/3500. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
4. TERMINAL ROUTES: CHANGED CATVI-VOBIH COURSE/DIST/ALT FROM 002.87/2.28/2200 TO 002.94/2.29/2800. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
5. TERMINAL ROUTES: CHANGED VOBIIH-JEANS COURSE/DIST FROM 2.32/4.13 TO 2.31/4.12. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
6. TERMINAL ROUTES: CHANGED STRPS-DEDLE COURSE/DIST/ALT FROM 207.82/3.01/3300 TO 193.67/4.22/3000. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
7. TERMINAL ROUTES: CHANGED DEDLE-EDMEF COURSE/DIST/ALT FROM 2.48/4.45/2200 TO 2.25/3.48/2000. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
8. TERMINAL ROUTES: CHANGED EDMEF-JEANS COURSE/DISTFROM 105.15/3.00 TO 105.00/1.79. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
9. TERMINAL ROUTES: CHANGED JEANS-RW10 COURSE FROM 105.13 TO 105.14 AND RW10-HURTRZ DIST FROM 13.36 TO 13.51. - AIRPORT DATA CHANGED AND MOVED FIX HURTZ.
10. PROFILE LINE 3: CHANGED FAC FROM 105.13 TO 105.14. - AIRPORT DATA CHANGED.
11. PROFILE LINE 7: CHANGED TCH FROM 55.9 TO 54.8. - MATCH ILS DESIGN TCH.
12. NOTES: CHANGED BARO-VNAV NOTE FROM "NA BELOW -12°C OR ABOVE 54°C" TO "NA BELOW -11°C OR ABOVE 54°C". - NEW WEATHER DATA.
13. NOTES: REMOVED 210 SPEED RESTRICTIONS AT BEGUE AND DEDLE AND ADDED 210 SPEED RESTRICTION AT ANCRR AND STRPS. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
14. ADDITIONAL FLIGHT DATA: REMOVED DISTANCE TO THLD FROM 453 HAT: 0.80 NM, CHART MINIMUM 2500 AT COLUM, CHART MANDATORY 1500 AT JEANS, # TCH 199.0 MSL (DO NOT CHART), ROUTE TYPE: A, H, ROUTE TYPE QUALIFIER 1:F, AND ROUTE TYPE QUALIFIER 2:S. - IAW 8260.19I.
15. ADDITIONAL FLIGHT DATA: ADDED MANDATORY 4000 AT BEGUE. - PROCEDURE REDESIGN FOR NOISE ABATEMENT.
16. ADDITIONAL FLIGHT DATA: ADDED CHART R-4001B. - PRIMARY HOLDING OVERLAPS AREA.
17. MINIMUMS: CHANGED 0.11 FROM 448/305 TO 444/301 AND CHANGED 0.30 FROM 626/483/6000 TO 628/485/5000. - NEW EVAL COMPLETED WITH NEW CONTROLLING OBSTS AND IAW 8260.3E.
18. PROFILE LINE 5: ADDED 301 HAT: 0.78. - IAW 8260.19I.

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**  
Jun 27, 2024

OFFICE

FPO

DATE

06/11/2024

DEVELOPED BY

ERIC N SUSKI (ANDRE TUCKER)

Digitally signed by  
**ERIC N SUSKI**  
Apr 29, 2024

OFFICE

AJV-A431

DATE

01/26/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by  
**ERIC N SUSKI**  
Apr 29, 2024

OFFICE

AJV-A430

DATE

09/05/2024

TITLE

MANAGER

# FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
BWI	RNAV (RNP) Z RWY 10	3	BALTIMORE	MD	143	RNAV

## PART A: OBSTRUCTION DATA SEGMENTS

**INITIAL**

**FROM** REMMY **TO** COLUM

RNP 1.00 DISTANCE 5.88 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (24-000103)	391308.73N/0765829.07W	849	20	3	1A	1000				AT1148 AC3	3000
TERRAIN	391309.00N/0765830.00W	597 (600)								AS1500	2100

## COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

## SEGMENT REMARKS:

**INITIAL**

**FROM** COLUM **TO** EFFYS

RNP 1.00 DISTANCE 3.19 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	391015.00N/0765515.00W	719	215	8	4B	1000				AT573 AC8	2300
TERRAIN	391257.00N/0765309.00W	479 (500)								AS1500	2000

## COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

## SEGMENT REMARKS:



INTERMEDIATE

FROM

ANCRR

TO

BEGUE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	2.99				

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (24-000341)	390147.90N/0764423.50W	685	500	125	5E	500				AC125 AT2690	4000
TERRAIN	390433.00N/0764436.00W	232 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

BEGUE

TO

CATVI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.15				

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	390709.00N/0765148.00W	538	215	8	4B	500				AT2454 AC8	3500
TERRAIN	390533.00N/0764842.00W	298 (300)								AS1500	1800

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

BEGUE-CATVI

4000

210

228.73

3856.6

43.52

3.46

17.34

(CFBBX)/3.15 NM

SEGMENT REMARKS:



INTERMEDIATE STEPDOWN

FROM

CATVI

TO

VOBIH

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	2.29										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (24-000166)	390828.00N/0765221.00W	513	500	125	5E	500				AT1662 AC125	2800
TERRAIN	390751.00N/0765209.00W	390 (400)								AS1500	1900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

VOBIH

TO

JEANS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	4.12										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	391233.00N/0764839.00W	637	215	8	4B	500				AT355 AC8	1500
TERRAIN	391218.00N/0764857.00W	429 (400)								AS1000	1400

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

VOBIH-JEANS

2800

210

224.6

2656.6

46.31

2.31

24.84

(CFBBZ)/4.12 NM

SEGMENT REMARKS:



INTERMEDIATE

FROM

EFFYS

TO

JEANS

RNP

1.00

DISTANCE

3.00

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	391251.00N/0764830.00W	693	215	8	4B	500				AC8	1300
TERRAIN	391251.00N/0764830.00W	492 (500)								AS1000	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

STRPS

TO

DEDLE

RNP

1.00

DISTANCE

4.22

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	391657.00N/0765333.00W	729	215	8	4B	500				AT1763 AC8	3000
TERRAIN	391700.00N/0765339.00W	528 (500)								AS1500	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

DEDLE

TO

EDMEF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.48				

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	391345.00N/0765318.00W	693	215	8	4B	500				AC8	1300
TERRAIN	391318.00N/0765318.00W	488 (500)								AS1500	2000

COMPUTATIONS

RF SEGMENT

DEDLE-EDMEF

ALT

3000

KIAS

210

KTAS

225.28

HAA

2856.6

VKTW

39.74

TR

2.25

BA

24.47

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFGQ)/3.48 NM

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

EDMEF

TO

JEANS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	1.79				

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	391251.00N/0764830.00W	693	215	8	4B	500				AC8	1300
TERRAIN	391251.00N/0764830.00W	493 (500)								AS1000	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:





FINAL

FROM

JEANS

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.11	4.09		DA		301						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (24-030624)	391039.98N/0764157.69W	212	20	3	1A					AC3 MA40	444

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

JEANS

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	4.09		DA		485						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE	391109.00N/0764215.00W	347	215	8	4B					AC8	628

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

HURTZ

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.11-1.00								206			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (24-029182)	391032.62N/0764202.33W	205	20	3	1A		ASC				2500
STACK (24-000291)	391053.00N/0763217.00W	740	500	50	5D	1000					1800
TERRAIN	391109.00N/0764215.00W	246 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

HURTZ

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											309
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2500
STACK (24-000291)	391053.00N/0763217.00W	740	500	50	5D	1000					1800
TERRAIN	391109.00N/0764215.00W	246 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MSA

CENTER

RW10

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (24-000503)	393659.00N/0765136.00W	354	27.7	1598	500	125	5E	1000			2600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZDC ARTCC, PCT TRACON, BWI TOWER

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	BWI	24	BWI	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:

SECONDARY WEATHER SOURCE NOT REQUIRED DUE TO 24 HOUR TOWER WITH ALTIMETER READING EQUIPMENT AND NATIONAL WEATHER SERVICE (24HRS).

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
			3

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW10 - ALSF-2, C/LINE, HIRL, TDZ, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW15L - HIRL, REIL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW15R - MALSR, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW28 - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW33L - MALSR, TDZ, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW33R - MALSR, HIRL, REIL, PAPI-4L	PIR-G	APPROACH, ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	141.4	54.8			3.00	71.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	550
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-11C	+54C	-11C	+14.72C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2018-2022).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 957 HIGH TEMP 1262.

"VISUAL PORTION OF FINAL" PENETRATIONS



**AIRPORT ID**  
BWI

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 10

**AMDT NO.**  
3

**CITY**  
BALTIMORE

**STATE**  
MD

**AIRPORT ELEVATION**  
143

**FACILITY**  
RNAV

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FEET TREE HEIGHT APPLIED PER FPT.

VDP NOT ESTABLISHED - RNP PROCEDURE.

APPROVAL LETTERS ON REQUEST FOR MANDATORY ALTITUDES AT ANCRR, BEGUE, AND STRPS.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.47
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.44
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	094.14
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	6.49
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	094.14
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	500

THRESHOLD COORDINATES (IF STR-IN) 391028.69N/0764115.66W  
ARP COORDINATES 391032.62N/0764008.37W  
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 10 DISTANCE 0.96 NM  
FAF COORDINATES 391046.56N/0764630.73W  
FIX NAME COORDINATES IF EFFYS 391059.51N/0765021.61W

REMARKS

THLD DISPLACED 550FT, ACTUAL COORDINATES: 391029.09N/0764122.62W

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.47
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.44
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	094.14
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	7.41
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	*
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	400

THRESHOLD COORDINATES (IF STR-IN) 391028.69N/0764115.66W  
ARP COORDINATES 391032.62N/0764008.37W  
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 10 DISTANCE 0.96 NM  
FAF COORDINATES 391046.56N/0764630.73W  
FIX NAME COORDINATES

REMARKS

RF FLT TRACK RADIUS 3.46 CENTERED ON CFBBX (390621.64N/0764451.15W).  
RF FLT TRACK RADIUS 2.31 CENTERED ON CFBBZ (390828.20N/0764643.59W).  
\*1500 FOOT OF AIRSPACE LOCATED IN THE INTERMEDIATE BETWEEN VOBH (390808.78N/0764939.97W) AND JEANS (391046.56N/0764630.73W).  
THLD DISPLACED 550FT, ACTUAL COORDINATES: 391029.09N/0764122.62W

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
BWI	RNAV (RNP) Z RWY 10	3	BALTIMORE	MD	143	RNAV
DISTANCE FROM	THLD	TO 1000FT POINT		3.47		
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT		0.44		
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT		094.14		
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT		300		
DISTANCE FROM	THLD	TO 1500FT POINT		4.88		
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT		4.00		
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT		094.00		
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT		500		

THRESHOLD COORDINATES (IF STR-IN) 391028.69N/0764115.66W  
ARP COORDINATES 391032.62N/0764008.37W  
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 10 DISTANCE 0.96 NM  
FAF COORDINATES 391046.56N/0764630.73W  
FIX NAME COORDINATES IF STRPS 391728.38N/0765114.67W

REMARKS

RF FLT TRACK RADIUS 2.25 CENTERED ON CFFGQ (391308.83N/0764836.36W)  
1500 FOOT OF AIRSPACE LOCATED IN THE INTERMEDIATE BETWEEN EDMEF (391054.08N/0764848.47W) AND JEANS (391046.56N/0764630.73W).  
THLD DISPLACED 550FT, ACTUAL COORDINATES: 391029.09N/0764122.62W

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ERIC N SUSKI (ANDRE TUCKER)	AJV-A431	01/26/2024	AERONAUTICAL INFORMATION SPECIALIST