

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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> ILS OR LOC RWY 33L ILS RWY 33L (SA CAT I) ILS RWY 33L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 13	<u>CITY</u> BALTIMORE	<u>STATE</u> MD		
<u>AIRPORT ELEVATION</u> 143	<u>TDZE</u> 143	<u>SUPERSEDED</u> ILS OR LOC RWY 33L ILS RWY 33L (SA CAT I) ILS RWY 33L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 12B	<u>DATED</u> 09/08/2022	<u>MAG VAR</u> 11W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> I-RUX	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 09/05/2024	<u>CANCEL/SUSPEND</u>		

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>
JANNS/BAL 13.00 DME/RADAR	IAF	SPLAT/BAL 7.45 DME/RADAR					335.21 (I-RUX)	5.55	2400
KOOLZ	IAF	SPLAT		TF	FB	1.00	008.26	9.05	2400
SPLAT/BAL 7.45 DME/RADAR	IF	GRAFE/BAL 4.35 DME/RADAR					335.21 (I-RUX)	3.11	1500

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.12 NM AFTER GRAFE/BAL 4.35 DME/RADAR OR AT BAL 0.36 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 300 AND BAL VORTAC R-311 TO YANNI INT/BAL 16.84 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT SPLAT/BAL 7.45 DME/RADAR					
3. FAC: 335.21	FAF: GRAFE/BAL 4.35 DME/RADAR	DIST FAF TO MAP: 4.12	DIST FAF TO THLD: 4.12		
4. MIN ALT: SPLAT/BAL 7.45 DME/RADAR 2400, GRAFE/BAL 4.35 DME/RADAR 1500, HAXAK/BAL 1.60 DME/RADAR 620					
5. DIST TO THLD FROM OM: MM:	IM:	100 HAT: 1060.00	150 HAT: 2013.00	GS ANT: 968	
6. MIN GS INCPT: 1500	GS ALT AT PFAF: GRAFE/BAL 4.35 DME/RADAR 1500	OM:	MM:	IM:	
7. GS ANGLE: 3.00	34:1:	20:1:	TCH: 55.4		
8. MSA FROM: BAL VORTAC 180-270 2200, 270-180 2600					



AIRPORT ID
BWI

PROCEDURE NAME
ILS OR LOC RWY 33L
ILS RWY 33L (SA CAT I)
ILS RWY 33L (SA CAT II)

ORIGINAL/AMENDMENT
13

CITY
BALTIMORE

STATE
MD

PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM KOOLZ.

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.
DME OR RADAR REQUIRED.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 33L: CAT A, B, C, D, RA 185, RVR 1400, HAT 150, DA 293 MSL
SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 33L: CAT A, B, C, D, RA 128, RVR 1200, HAT 100, DA 243 MSL
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 33R.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
SA CAT II CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
CHART NOTE: DME FROM BAL VORTAC. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-RUX AND AND BAL DME.
CHART SPEED ICON IN PLANVIEW AT JANNS: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KOOLZ: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 131.00 INBOUND.
CHART FAS OBST: 289 TOWER (24-001047) 390842N/0763859W.
CHART AT OR ABOVE 4000 AT JANNS.
CHART MANDATORY 5000 AT KOOLZ.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4

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
S-ILS 33L	343	1800	200	343	1800	200	343	1800	200	343	1800	200			
S-LOC 33L	540	2400	397	540	2400	397	540	3500	397	540	3500	397			
CIRCLING	640	1	497	660	1	517	700	1 1/2	557	880	2 1/4	737			



CHANGES - REASONS

- 1. TERMINAL ROUTES: ADDED IAF LEG FROM KOOLZ TO SPLAT– PER FPT REQUEST.
- 2. TERMINAL ROUTES: UPDATED JANNS/BAL 13.00 DME/RADAR TO SPLAT/BAL 7.45 DME/RADAR COURSE FROM “335.22” TO “335.21” – UPDATED EVALUATION DATA.
- 3. TERMINAL ROUTES: UPDATED SPLAT/BAL 7.45 DME/RADAR TO GRAFE/BAL 4.35 DME/RADAR COURSE FROM “335.22” TO “335.21” AND DISTANCE FROM “3.11 (I-RUX)” TO “3.10 (I-RUX)” - UPDATED EVALUATION DATA.
- 4. MISSED APPROACH INSTRUCTIONS” UPDATE FROM “CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 280 AND BAL R-294 TO DATED INT/BAL 14.92 DME AND HOLD” TO “CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 300 AND BAL VORTAC R-311 TO YANNI INT/BAL 16.84 DME AND HOLD” - PER FPT REQUEST TO MEET NOISE ABATEMENT REQUIREMENTS.
- 5. REMOVED ALTERNATE MISSED APPROACH PER FPT REQUEST,
- 6. PROFILE LINE2: UPDATED PROFILE STARTS AT FROM: “JANNS/BAL 13.00 DME/RADAR” TO “SPLAT/BAL 7.45 DME/RADAR” – IAW 8260.19I 8-6-7
- 7. PROFILE LINE 3: UPDATED FAC FROM “3.22” TO “3.21” - UPDATED EVALUATION DATA.
- 8. PROFILE LINE 4: UPDATE MIN ALT FROM “JANNS/BAL 13.00 DME/RADAR 4000, SPLAT/BAL 7.45 DME/RADAR 2400, GRAFE/BAL 4.35 DME/RADAR 1500, HAXAK/BAL 1.55 DME/RADAR 600*” TO “SPLAT/BAL 7.45 DME/RADAR 2400, GRAFE/BAL 4.35 DME/RADAR 1500, HAXAK/BAL 1.60 DME/RADAR 620” – IAW 8260.19I 8-6-7, REMOVED * - NO LONGER REQUIRED.
- 9. PROFILE LINE 5: UPDATED 100 HAT FROM “1061” TO “1060” AND 150 HAT FROM “2015” TO “2013” – FIXES MOVED, UPDATED RUNWAY THRESHOLD.
- 10. PROFILE LINE 7: UPDATED TCH FROM “55.2” TO “55.4” – NEW DESIGN TCH, IAW 8260.58 1-3-1.
- 11. PBN REQUIREMENT NOTES: ADDED “RNP APCH-GPS. FROM KOOLZ” – IAW 8260.19J 8-6-8.
- 12. EQUIPMENT REQUIREMENT NOTES: CHANGED NOTE FROM “DME OR RADAR REQUIRED FOR LOC ONLY” TO “DME OR RADAR REQUIRED” – IAW 8260.19J 8-6-9.
- 13. NOTES: REMOVED “CHART NOTE: DME OR RADAR REQUIRED” – MOVED TO EQUIPMENT REQUIREMENT NOTES.
- 14. NOTES: REMOVED “*LOC ONLY” – NO LONGER REQUIRED.
- 15. NOTES: ADDED “CHART SPEED ICON IN PLANVIEW AT KOOLZ: MAX 210 KIAS” AND “CHART SPEED ICON IN PLANVIEW AT JANNS: 210 KIAS” - PROCEDURE CONNECTS TO RAVNN AND MIIDY STARS.
- 16. NOTES: UPDATED RA VALUES FOR SA CATEGORY I FROM 186 TO 185, AND SA CAT II FROM 132 TO 128 - USING CURRENT TERRAIN DATA AT RESPECTIVE DA LOCATIONS
- 17. NOTES: UPDATED FROM “SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH” AND “SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN” TO “SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL” AND “SA CAT II CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL” – IAW 8260.19J 8-6-10.
- 18. NOTES: UPDATED NOTE FROM “CHART NOTE: DME FROM BAL VORTAC” TO “DME FROM BAL VORTAC. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-RUX AND BAL DME” – IAW 8260.19J 8-6-10.
- 19. REMOVED “CHART 532 TOWER 390558N/0763721W” FROM ADDITIONAL FLIGHT DATA - NEW 7:1 OBSTACLE IS AAO, IAW 8260.19J 8-6-11 MEMO.
- 20. ADDITIONAL FLIGHT DATA: ADDED “CHART AT OR ABOVE 4000 AT JANNS” AND “CHART MANDATORY 5000 AT KOOLZ” – PROCEDURE CONNECTS TO RAVNN AND MIIDY STARS.
- 21. ADDITIONAL FLIGHT DATA: REMOVED: “CHART IN PLANVIEW: DATED INT/DCA 22.33 DME,” AND “CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S DATED INT/DCA 22.33 DME, RT, 016.67 INBOUND” – NO LONGER REQUIRED.
- 22. ADDITIONAL FLIGHT DATA: UPDATED NOTE FROM: “HOLD N, RT, 186.99 INBOUND” TO “HOLD NW, RT, 131.00 INBOUND” – NEW MA HOLDING INSTRUCTIONS, NEW HOLDING POINT AND PATTERN.
- 23. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM: “289 TOWER 390842N/0763859W” TO “289 TOWER (24-001047) 390842N/0763859W” – IAW 8260.19I IAW 8260.19I 8-6-10
- 24. MINIMUMS: UPDATED S-LOC 33L CAT C/D VISIBILITY FROM “4000” TO “3500” – 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

Digitally signed by
ERIC N SUSKI
Jul 25, 2024

OFFICE

DATE

PENDING

DEVELOPED BY

ERIC N SUSKI (JUDITH TUTTLE)

Digitally signed by
ERIC N SUSKI
Jun 13, 2024

OFFICE

AJV-A431

DATE

02/15/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by
ERIC N SUSKI
Jun 13, 2024

OFFICE

AJV-A431

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> BWI	<u>PROCEDURE NAME</u> ILS OR LOC RWY 33L ILS RWY 33L (SA CAT I) ILS RWY 33L (SA CAT II)	<u>AMDT NO.</u> 13	<u>CITY</u> BALTIMORE	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 143	<u>FACILITY</u> I-RUX
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

<u>FROM</u> JANNS/BAL 13.00 DME/RADAR	<u>TO</u> SPLAT/BAL 7.45 DME/RADAR
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<u>RNP</u>	<u>DISTANCE</u> 5.55	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<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 (24-000913)	390036.77N/0763631.88W	1049	20	3	1A	1000				AT351	2400
TERRAIN	390248.00N/0763600.00W	187 (200)								AS1500	1700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

<u>FROM</u> KOOLZ	<u>TO</u> SPLAT
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<u>RNP</u> 1.00	<u>DISTANCE</u> 9.05	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<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 (24-000913)	390036.77N/0763631.88W	1049	20	3	1A	1000				AT351	2400
TERRAIN	390303.00N/0763657.00W	209 (200)								AS1500	1700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INTERMEDIATE

FROM

SPLAT/BAL 7.45 DME/RADAR

TO

GRAFE/BAL 4.35 DME/RADAR

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	3.11				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (24-000454)	390558.00N/0763721.00W	532	500	125	5E	500				AT343 AC125	1500
TERRAIN	390303.00N/0763657.00W	209 (200)								AS1000	1200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS

FROM

GRAFE/BAL 4.35 DME/RADAR

TO

RW33L

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	4.13		DA	200	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				343

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: ILS SA CAT I

FROM

GRAFE/BAL 4.35 DME/RADAR

TO

RW33L

<u>RNP</u>		<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>			
		4.13		DA			150				
<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				293

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS SA CAT II

FROM

GRAFE/BAL 4.35 DME/RADAR

TO

RW33L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	4.13		DA				100				
<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				243

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LOC

FROM

GRAFE/BAL 4.35 DME/RADAR

TO

HAXAK/BAL 1.60 DME/RADAR

RNP	DISTANCE	PAT	MAP			HAT	HMAS				
	2.76										
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (24-001047)	390841.74N/0763859.42W	289	20	3	1A	250				DG81	620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

HAXAK/BAL 1.60 DME/RADAR

TO

4.12 NM AFTER GRAFE/BAL 4.35 DME/RADAR OR AT BAL 0.36 DME

RNP	DISTANCE	PAT	MAP			HAT	HMAS				
	1.36		4.12 NM AFTER GRAFE/BAL 4.35 DME/RADAR OR AT BAL 0.36 DME			397					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (24-001047)	390841.74N/0763859.42W	289	20	3	1A	250					540

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: ILS

FROM

DA

TO

YANNI INT/BAL 16.84 DME/RADAR

RNP	DISTANCE	PAT	MAP		HAT		HMAS				
							170				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
TOWER (24-000116)	391335.64N/0764837.76W	958	20	10	1B	1000					2000
TERRAIN	391921.00N/0765700.00W	666 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: ILS SA CAT I

FROM

DA

TO

YANNI INT/BAL 16.84 DME/RADAR

RNP	DISTANCE	PAT	MAP		HAT		HMAS				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
TOWER (24-000116)	391335.64N/0764837.76W	958	20	10	1B	1000					2000
TERRAIN	391921.00N/0765700.00W	666 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: ILS SA CAT II

FROM

DA

TO

YANNI INT/BAL 16.84 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
<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				2600
TOWER (24-000116)	391335.64N/0764837.76W	958	20	10	1B	1000					2000
TERRAIN	391921.00N/0765700.00W	666 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LOC

FROM

4.12 NM AFTER GRAFE/BAL 4.35 DME/RADAR OR AT BAL 0.36 DME

TO

YANNI INT/BAL 16.84 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 290			
<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				2600
TOWER (24-000116)	391335.64N/0764837.76W	958	20	10	1B	1000					2000
TERRAIN	391921.00N/0765700.00W	666 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (24-029434)	391111.57N/0764213.94W	1.30	497	322	20	3	1A	300			640
CATEGORY B											
ANTENNA (24-030710)	391231.24N/0763827.54W	1.81	517	342	20	10	1B	300			660
CATEGORY C											
BUILDING (24-040487)	390923.70N/0764339.30W	2.84	557	400	50	20	2C	300			700
CATEGORY D											
AAO	391418.00N/0764300.00W	3.71	737	565	215	8	4B	300			880

CIRCLING REMARKS:

MSA

CENTER
BAL VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
180-270	TOWER (11-020097)	385701.39N/0770445.92W	247	23.6	1102	250	50	4D	1000			2200
270-180	TOWER (24-000503)	393659.00N/0765136.00W	352	28.3	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

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

WX REMARKS:

BACKUP ALTIMETER SETTING NOT REQUIRED; REDUNDANT LOCAL SOURCES EXIST.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
I-RUX	BWI ATCT	24	1

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

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	132.0	55.4	125.6	968	3.00	72.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	500
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - VDP IS LESS THAN 0.5 NM AFTER STEPDOWN.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
100' TREE HEIGHT PER FPT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 391 AAO 390642N/0763724W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	3.18
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.91
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	324.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	5.83
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	5.62
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	324.21
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN)	390955.14N/0763948.33W
ARP COORDINATES	391032.62N/0764008.37W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 10 DISTANCE 0.96 NM
FAF COORDINATES	390634.30N/0763642.53W
FIX NAME COORDINATES	IF SPLAT 390402.88N/0763422.59W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED
THLD DISPLACED 500FT, ACTUAL COORDINATES: 390951.13N/0763944.61W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ERIC N SUSKI (JUDITH TUTTLE)	AJV-A431	02/15/2024	AERONAUTICAL INFORMATION SPECIALIST

