

**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.

AIRPORT ID CHO	PROCEDURE NAME ILS OR LOC RWY 3	ORIGINAL/AMENDMENT 1C	CITY CHARLOTTESVILLE	STATE VA
AIRPORT ELEVATION 640	TDZE 640	SUPERSEDED ILS OR LOC RWY 3	DATED 01/03/2019	MAG VAR 8W
FACILITY I-CHO	COORDINATES OF FACILITIES 380903.33N/0782647.51W	ORIGINAL/AMENDMENT 1B	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1985
		ACTUAL EFFECTIVE DATE	CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GVE VORTAC		WULDU INT/I-CHO 14.00 DME					262.25	19.77	3400
KENNI INT/GVE 22.79 DME	IAF	WULDU INT/I-CHO 14.00 DME	NOPT				030.13 (I-CHO)	4.61	3400
WULDU INT/I-CHO 14.00 DME	IF/IAF	SIPME INT/I-CHO 7.28 DME					030.13 (I-CHO)	6.72	2600

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.99 NM AFTER SIPME INT/I-CHO 7.28 DME OR AT I-CHO 1.29 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 4000 DIRECT GVE VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 6100 ON HEADING 240 AND ON MOL VOR/DME R-070 TO MOL VOR/DME AND HOLD.

PROFILE:

- PT** SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SW WULDU INT/14.00 DME, RT, 030.13 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 5100.
- FAC:** 030.13 **FAF:** SIPME INT/I-CHO 7.28 DME **DIST FAF TO MAP:** 5.99 **DIST FAF TO THLD:** 5.99
- MIN ALT:** WULDU INT/I-CHO 14.00 DME 3400, SIPME INT/I-CHO 7.28 DME 2600, JITIV INT/I-CHO 3.79 DME 1280*
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 1102
- MIN GS INCPT:** 2600 **GS ALT AT PFAF:** SIPME INT/I-CHO 7.28 DME 2600 **OM:** **MM:** **IM:**
- GS ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 53.9
- MSA FROM:** GVE VORTAC 045-225 2000, 225-045 4900



NOTES:

CHART NOTE: VDP NA WHEN USING ORANGE ALTIMETER SETTING.

*1360 WHEN USING ORANGE ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ORANGE ALTIMETER SETTING AND INCREASE S-ILS 3 DA TO 911 AND ALL MDA 80 FEET; INCREASE S-LOC 3 JIIV FIX MINIMUMS CATS C/D, S-LOC 3 CATS C/D, CIRCLING CATS C/D, AND JIIV FIX MINIMUMS CIRCLING CATS C/D VISIBILITY 1/4 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING ORANGE ALTIMETER SETTING, INCREASE S-ILS 3 ALL CATS VISIBILITY TO 7/8 SM, S-LOC 3 CATS C/D VISIBILITY TO 2 SM, AND S-LOC 3 JIIV FIX MINIMUMS CATS C/D VISIBILITY TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART IN PLANVIEW MOL VOR/DME.

HOLD SW, RT, 033.00 INBOUND.

CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE MOL VOR/DME, RT, 237.50 INBOUND.

FAS OBST: 696 TREE (KCHOT0274) 380516N/0782848W.

CHART VDP AT 2.19 DME.

DISTANCE VDP TO THLD 0.90 NM.

CHART IN PLANVIEW: MOL VOR/DME.

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT C 900-2 1/2, CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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 03	840	1/2	200	840	1/2	200	840	1/2	200	840	1/2	200				
S-LOC 03	1280	1/2	640	1280	1/2	640	1280	1 3/8	640	1280	1 3/8	640				
CIRCLING	1280	1	640	1280	1	640	1500	2 1/2	860	1500	2 3/4	860				
JITIV FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)																
S-LOC 03	980	1/2	340	980	1/2	340	980	5/8	340	980	5/8	340				
CIRCLING	1100	1	460	1100	1	460	1500	2 1/2	860	1500	2 3/4	860				

CHANGES - REASONS

1. INCORPORATED CHANGES FROM PREVIOUS P-NOTAMS INTO THE FORM ALT MINS CHANGED FROM MDA/HAT 1000/360 TO MDA/HAT 980/340 - EFPT ADVISED 783 TREE REMOVED; RESTORE TO PREVIOUS MINIMUMS.
2. INCORPORATED CHANGES FROM PREVIOUS P-NOTAMS INTO THE FORM CIRCLING CAT A MDA 1060/HAA 420 CHANGED TO CIRCLING CAT A MDA 1100/HAA 460. - NEW CONTROLLING OBSSTACLE.
3. CHANGED ALTERNATE MISSED APP INSTRUCTIONS FROM "CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 6100 ON HEADING 240 AND ON MOL VOR/DME R-250 TO MOL VOR/DME AND HOLD." TO READ "CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 6100 ON HEADING 240 AND ON MOL VOR/DME R-070 TO MOL VOR/DME AND HOLD." - MOL VOR/DME RADIAL WAS INCORRECT.
4. UPDATED MSA SECTOR 045-225 AND SECTOR 225-045 CONTROLLING OBSTACLES - NEW SURVEY CONDUCTED
5. ALT MINS: CHANGED ILS FROM "CAT A, B 700-2, CAT C 900-2 1/2, CAT D 900-2 3/4" TO "STANDARD" - 8260.19J 8-6-12 B(4)



AIRPORT ID
CHO

PROCEDURE NAME
ILS OR LOC RWY 3

ORIGINAL/AMENDMENT
1C

CITY
CHARLOTTESVILLE

STATE
VA

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZDC, POTOMAC APP CON, KCHO ATCT, ARPT MGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

DEVELOPED BY

PHILLIP SMART

OFFICE

AJV-A433

DATE

06/20/2024

APPROVED BY

BEV L BORDY

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> CHO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 3	<u>AMDT NO.</u> 1C	<u>CITY</u> CHARLOTTESVILLE	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 640	<u>FACILITY</u> I-CHO
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM GVE VORTAC	TO WULDU INT/I-CHO 14.00 DME
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<u>RNP</u>	<u>DISTANCE</u> 19.77	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	375848.72N/0782922.37W	1699	50	20	2C	2000				MT-299	3400
TERRAIN	375848.72N/0782922.37W	1599 (1600)									3100

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

FROM KENNI INT/GVE 22.79 DME	TO WULDU INT/I-CHO 14.00 DME
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<u>RNP</u>	<u>DISTANCE</u> 4.61	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	375139.00N/0784109.00W	1975	164	98	4E	1000				AT425	3400
TERRAIN	375306.00N/0783939.00W	1431 (1400)								AS1500	2900

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:



AIRPORT ID
CHO

PROCEDURE NAME
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AMDT NO.
1C

CITY
CHARLOTTESVILLE

STATE
VA

AIRPORT ELEVATION
640

FACILITY
I-CHO

FINAL: LOC

FROM
SIPME INT/I-CHO 7.28 DME

TO
JITIV INT/I-CHO 3.79 DME

RNP

DISTANCE
3.49

PAT

MAP

HAT
640

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	380229.00N/0783113.20W	1019	50	20	2C	250					1280

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM
JITIV INT/I-CHO 3.79 DME

TO
5.99 NM AFTER SIPME INT/I-CHO 7.28 DME OR AT I-CHO 1.29 DME

RNP

DISTANCE
2.50

PAT

MAP
5.99 NM AFTER SIPME INT/I-CHO 7.28 DME OR AT I-CHO 1.29 DME

HAT
340

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>
TREE (KCHOT0274)	380515.78N/0782847.92W	696	20	3	1A	250				MA15	980

COMPUTATIONS

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

SEGMENT REMARKS:



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CHO

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AMDT NO.
1C

CITY
CHARLOTTESVILLE

STATE
VA

AIRPORT ELEVATION
640

FACILITY
I-CHO

HOLD-IN-LIEU OF PT

FROM
WULDU INT/14.00 DME

TO
P-5

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
P-5

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	375817.69N/0783500.89W	1846	50	3	2A	1000				AT554	3400
TERRAIN	375817.69N/0783500.89W	1646 (1600)									3100

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: ILS

FROM **TO**
DA GVE VORTAC

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
672

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9. TREE (KCHO0038)	380801.85N/0782733.21W	730	20	3	1A		ASC				4000
AAO	380734.23N/0781711.39W	2039	50	20	2C	1000					3100
TERRAIN	380734.23N/0781711.39W	1839 (1800)								AS1500	3300

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
CHO

PROCEDURE NAME
ILS OR LOC RWY 3

AMDT NO.
1C

CITY
CHARLOTTESVILLE

STATE
VA

AIRPORT ELEVATION
640

FACILITY
I-CHO

MISSED APPROACH ALTERNATE: ILS

FROM
DA **TO**
MOL VOR/DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
672

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9. TREE (KCHO0038)	380801.85N/0782733.21W	730	20	3	1A		ASC				6100
AAO	375500.00N/0785718.00W	4052	164	98	4E	1000					5100
TERRAIN	375500.00N/0785718.00W	3852 (3900)								AS1500	5400

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											
12. TOWER (51-022760)	380758.30N/0782624.50W	1.30	640/460	783	20	3	1A	300		SI	1280/1100
CATEGORY B											
12. TOWER (51-022760)	380758.30N/0782624.50W	1.83	640/460	783	20	3	1A	300		SI	1280/1100
CATEGORY C											
13. TWR (KCHOT0319)	381047.96N/0782509.77W	2.87	860/860	1194	20	3	1A	300			1500/1500
CATEGORY D											
13. TWR (KCHOT0319)	381047.96N/0782509.77W	3.75	860/860	1194	20	3	1A	300			1500/1500

CIRCLING REMARKS:

MSA

CENTER **RADIUS**
GVE VORTAC 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
045-225	TOWER (51-000204)	373538.60N/0782356.69W	211	27.7	912	20	3	1A	1000			2000
225-045	AAO	382357.00N/0782957.00W	325	28.3	3825	215	8	4B	1000			4900

MSA REMARKS:



AIRPORT ID
CHO

PROCEDURE NAME
ILS OR LOC RWY 3

AMDT NO.
1C

CITY
CHARLOTTESVILLE

STATE
VA

AIRPORT ELEVATION
640

FACILITY
I-CHO

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

FINAL FIX ERROR BETWEEN 1 AND 2 NM.
FIX ERROR PRIOR TO FAF IN EXCESS OF 1 NM = 742 FT.
FIX ERROR AFTER FAF IN EXCESS OF 1 NM = 483 FT.

FINAL STEPDOWN FIX ERROR BETWEEN 1 AND 2 NM.
FIX ERROR PRIOR TO SDF IN EXCESS OF 1 NM = 114 FT.
FIX ERROR AFTER SDF IN EXCESS OF 1 NM = 46 FT.

VEGETATION UTILIZES 100 FT PLUS TERRAIN PER FPO.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

ALTERNATE MISSED ALTITUDE USED TO MATCH MEA ON AIRWAY.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZDC ARTCC, POTOMAC APP CON, CHO 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	CHO	24	CHO	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>
AWOS-3	OMH	24	OMH	20.29	Y	74

WX REMARKS:

RASS PRESSURE PATTERNS ARE SAME
KCHO 639.8, KOMH 464.3,
RA=71.24

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
I-CHO	POTOMAC SOC	24 HRS	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW21 - REIL (PCL), HIRL (PCL), PAPI-4R	NPI-G	
RW03 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	

<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	640.1	53.9	632.3	1102	3.00	53.2

FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>

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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1070 AAO 380158N/0783121W
ORDER 8260.3 CHAPTER 2 APPLIED TO 779 AAO 380500N/0782930W
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	3.79
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.04
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	022.13
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	5.99
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.51
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	022.13
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)

380751.58N/0782724.48W

ARP COORDINATES

380822.71N/0782708.44W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 21 DISTANCE 0.56 NM

FAF COORDINATES

380218.38N/0783015.78W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME

PHILLIP SMART

OFFICE

AJV-A433

DATE

06/20/2024

TITLE

AERONAUTICAL INFORMATION SPECIALIST