

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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>		
CHS	VOR Y OR TACAN Y RWY 15	14C	CHARLESTON	SC		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
46	43	VOR OR TACAN RWY 15	14B	06/15/2023	5W	1985
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
CHS			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>
COTAK/10.00 DME CW	IAF	IBANE/10.00 DME	NOPT				10.00 DME ARC		1600
CARNO/10.00 DME CCW	IAF	IBANE/10.00 DME	NOPT				10.00 DME ARC		1600
IBANE/10.00 DME	IF	MYRAA/4.00 DME					157.00 (CHS R-337)	6.00	1100

MISSED APPROACH

MAP:

COLOT/1.23 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 3500 ON CHS VORTAC R-055 TO WANDO/CHS 13.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT R** **SIDE OF COURSE** 337.00 **OUTBOUND** 1600 **FT WITHIN** 10 **MILES OF** CHS VORTAC (IAF)
- 2.
3. **FAC:** 157.00 **FAF:** MYRAA/4.00 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 2.77
4. **MIN ALT:** MYRAA/4.00 DME 1100
8. **MSA FROM:** CHS VORTAC 3100



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE (ANGLE)/TCH (FEET)).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-15 CAT A/B VISIBILITY TO RVR 5500 AND CAT C/D VISIBILITY TO RVR 6000.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 234.80 INBOUND.
CHART FAS OBST: 194 ANT ON TWR (KCHS0107) 325449N/0800328W.
CHART VDP AT 2.39 DME.
DISTANCE VDP TO THLD 1.15 NM.
CHART CHS R-219 AT COTAK.
CHART CHS R-055 AT CARNO.
FAC CROSSES RWY C/L EXTENDED 5097 FT FROM THLD.
MYRAA TO RW15: 3.43/50.

MINIMUMS:

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

ALTERNATE: NA 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-15	460	2400	417	460	2400	417	460	4000	417	460	4000	417				
CIRCLING	540	1	494	540	1	494	540	1 1/2	494	740	2 1/4	694				

CHANGES - REASONS

- PROCEDURE NAME CHANGED FROM "VOR OR TACAN RWY 15" TO "VOR Y OR TACAN Y RWY 15" - IAW 8260.3E.
- MISSED APPROACH: CHANGED "COLOT/CHS 1.23 DME" TO "COLOT/1.23 DME" - CHS REMOVED IAW 8260.19I.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZJX, CHS APP CON/ATCT, AMGR

FLIGHT CHECKED BY

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

OFFICE
Digitally signed by
RAKE MCGRAW
Jul 01, 2024

DATE

DEVELOPED BY

BRITNEY ARMENTROUT

Digitally signed by
BRITNEY ARMENTROUT
Jun 20, 2024

OFFICE
AJV-A422

DATE
06/20/2024

APPROVED BY

RAKE MCGRAW

OFFICE
RAKE MCGRAW
AJV-A422
Jul 01, 2024

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> CHS	<u>PROCEDURE NAME</u> VOR Y OR TACAN Y RWY 15	<u>AMDT NO.</u> 14C	<u>CITY</u> CHARLESTON	<u>STATE</u> SC	<u>AIRPORT ELEVATION</u> 46	<u>FACILITY</u> CHS
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

FROM
COTAK/R-219/10.00 DME CW

TO
IBANE/10.00 DME

RNP DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (41-0950)	325825.00N/0801344.00W	549	100	20	3C	1000					1600
TERRAIN	330630.00N/0800727.00W	92 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: ARC

FROM
CARNO/R-055/10.00 DME CCW

TO
IBANE/10.00 DME

RNP DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (41-0993)	330733.00N/0800220.00W	555	50	20	2C	1000					1600
TERRAIN	330718.00N/0800554.00W	92 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:



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CHS

INTERMEDIATE

FROM
IBANE/10.00 DME

TO
MYRAA/4.00 DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
6.00

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (41-0770)	330127.00N/0801035.00W	425	500	50	5D	500					1000
TERRAIN	330126.00N/0800857.00W	89 (100)								AS1000	1100

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE: PT

FROM
10 NM

TO
MYRAA/4.00 DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
10.00

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (41-0533)	330025.00N/0800515.00W	397	500	50	5D	500					900
TERRAIN	330109.00N/0800903.00W	89 (100)								AS1000	1100

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
CHS

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CHS

FINAL

FROM
MYRAA/4.00 DME

TO
COLOT/1.23 DME

RNP

DISTANCE
2.77

PAT

MAP
COLOT/1.23 DME

HAT
417

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>
ANT ON TWR (KCHS0107)	325449.48N/0800327.88W	194	50	20	2C	250					460

COMPUTATIONS

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

SEGMENT REMARKS:

PROCEDURE TURN

FROM
CHS VORTAC

TO
10 NM

RNP

DISTANCE

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 (41-0993)	330733.00N/0800220.00W	555	50	20	2C	1000					1600
TERRAIN	330827.00N/0800554.00W	92 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:



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CHS

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MISSED APPROACH

FROM
COLOT/1.23 DME

TO
WANDO

RNP

DISTANCE

PAT

MAP

HAT

HMAS
210

<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				3500
TOWER (41-0539)	325423.00N/0795514.00W	649	50	20	2C	1000					1700
TERRAIN	325924.00N/0794809.00W	63 (100)								AS1500	1600

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

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
CATEGORY A											
CONTROL_TOWER (45-000230)	325340.81N/0800137.05W	1.30	494	233	20	3	1A	300			540
CATEGORY B											
CONTROL_TOWER (45-000230)	325340.81N/0800137.05W	1.81	494	233	20	3	1A	300			540
CATEGORY C											
CONTROL_TOWER (45-000230)	325340.81N/0800137.05W	2.84	494	233	20	3	1A	300			540
CATEGORY D											
STACK (45-000456)	325355.00N/0795759.00W	3.70	694	422	100	20	3C	300			740

CIRCLING REMARKS:

MSA

CENTER
CHS VORTAC

RADIUS
25



<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TOWER (41-0706)	325529.00N/0794157.00W	089	17.2	2016	500	50	5D	1000			3100

MSA REMARKS:

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CHS

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZJX ARTCC, CHS APP CON

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> CHS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> CHS	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
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<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>
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WX REMARKS:

BACKUP ALTIMETER SOURCE NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES.

<u>PRIMARY NAVAID</u> CHS VORTAC	<u>MONITOR POINT</u> AOCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW03 - HIRL, REIL, PAPI-4L	PIR-G	
RW15 - ALSF-2, C/LINE, TDZ, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW21 - HIRL, REIL, PAPI-4L	PIR-G	
RW33 - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, 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> 3.00	<u>TCH</u> 50.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input 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>
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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:

100 FT VEGETATION HEIGHT USED.

PRECIPITOUS TERRAIN EVALUATION COMPLETE.
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	2.60
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.38
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	152.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	FAF	TO 1500FT POINT	6
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	8.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	152.00
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN)	325446.88N/0800253.23W
ARP COORDINATES	325355.10N/0800225.90W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 15 DISTANCE 0.94 NM
FAF COORDINATES	325711.83N/0800430.02W
FIX NAME COORDINATES	IF IBANE 330230.23N/0800751.22W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

PART E: PREPARED BY

NAME
BRITNEY ARMENTROUT

OFFICE
AJV-A422

DATE
06/20/2024

TITLE
AERONAUTICAL INFORMATION SPECIALIST

