

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) 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</u> CHARLESTON AFB/INTL	<u>AIRPORT ID</u> KCHS	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 3	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> CHARLESTON	<u>STATE</u> SC	
<u>AIRPORT ELEVATION</u> 46	<u>TDZE</u> 35	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 3	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 12/11/2014	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
CHS VORTAC		HERTZ		TF	FO	1.00	211.93	12.48	3000
LOFTI	IAF	HERTZ	NOPT	TF	FB	1.00	090.45	10.31	3000
SEAMS	IAF	ERGOW	NOPT	TF	FB	1.00	174.36	5.90	5000
ERGOW		HAXOL		TF	FB	1.00	171.87	17.87	4000
GMSTR	IAF	LIMDE	NOPT	TF	FB	1.00	266.54	25.75	3300
RIKKI	IAF	SHRMP	NOPT	TF	FB	1.00	207.71	31.85	3300
HAXOL	IAF	HERTZ	NOPT	TF	FB	1.00	120.24	7.11	3000
SHRMP	IAF	LIMDE	NOPT	TF	FB	1.00	245.72	6.81	3300
LIMDE	IAF	HERTZ	NOPT	TF	FB	1.00	302.46	7.32	3000
HERTZ	IF/IAF	CAVUB		TF	FB	1.00	031.28	6.68	1700
CAVUB	FAF	RW03	MAP	TF	FO	0.30	031.38	5.12	
RW03	MAP	235 MSL		CA			031.38		
235 MSL		ALGOE		DF	FO	1.00			3000



MISSED APPROACH

MAP:
LPV: DA
LNAV/VNAV: DA
LNAV: RW03

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 3000 DIRECT ALGOE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SW HERTZ, RT, 031.28 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 031.38		FAF: CAVUB		DIST FAF TO MAP: 5.12	DIST FAF TO THLD: 5.12
4. MIN ALT: HERTZ 3000, CAVUB 1700					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.52	GS ANT:
6. MIN GP INCPT: 1700	GP ALT AT FAF :	CAVUB 1700		OM:	MM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 50.0		IM:
8. MSA FROM: RW03 3100					

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CHS VORTAC AIRWAY RADIALS 219 CW 282.

ADDITIONAL FLIGHT DATA:

CHART W-133 & W-134.
HOLD NE, RT, 211.46 INBOUND.
FAS OBST: 215 AAO 324909N/0800427W.
CHART VDP AT 1.28 NM TO RW03*
*LNAV ONLY.
WAAS CHANNEL # 86699
REFERENCE PATH ID: W03A
CHART CIRCLING ICON.
LTP HAE: -26.5 M



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
LPV DA	235	3/4	200	235	3/4	200	235	3/4	200	235	3/4	200			
LNAV/VNAV DA	344	7/8	309	344	7/8	309	344	7/8	309	344	7/8	309			
LNAV MDA	480	1	445	480	1	445	480	1 3/8	445	480	1 3/8	445			
CIRCLING	540	1	494	540	1	494	600	1 1/2	554	740	2 1/4	694			

CHANGES - REASONS

1. LPV DA/HAT DECREASED FROM 236/201 TO 235/200. - NO MISSED APPROACH SECTION 1 PENETRATION FOUND.
2. LNAV/VNAV DA/HAT DECREASED FROM 472/437 TO 344/309; VISIBILITY DECREASED FROM 1 1/2 TO 7/8. - NEW LNAV/VNAV CONTROLLING OBSTACLE; UPDATED VISIBILITY VALUES IAW 8260.3D, TABLE 3-3-1.
3. CIRCLING CAT C MDA/HAA INCREASED FROM 540/494 TO 600/554; CAT D MDA/HAA INCREASED FROM 600/554 TO 740/694, CAT D VISIBILITY INCREASED FROM 2 TO 2 1/4. - NEW CIRCLING RADII APPLIED IAW 8260.3D, UPDATED VISIBILITY VALUES IAW 8260.3D, TABLE 3-3-1.
4. TERMINAL ROUTES: CHS VORTAC TO FEPID UPDATED TO CHS VORTAC TO HERTZ; RNP/COURSE UPDATED FROM 2.00/211.97 TO 1.00/211.93. - FEPID REMOVED PER FPT/ATC. RNP UPDATED IAW 8260.58A, TABLE 1-2-1.
5. TERMINAL ROUTES: DDENA TO FEPID UPDATED TO LOFTI TO HERTZ; COURSE UPDATED FROM 090.42 TO 090.50. - DDENA AND FEPID REMOVED PER FPT/ATC.
6. TERMINAL ROUTES: OSPRI TO NKLSS UPDATED TO SEAMS TO ERGOW; DISTANCE UPDATED FROM 4.68 TO 5.90. - OSPRI AND NKLSS REMOVED PER FPT/ATC.
7. TERMINAL ROUTES: NKLSS TO HAXOL UPDATED TO ERGOW TO HAXOL; COURSE/DISTANCE UPDATED FROM 172.03/19.08 TO 171.87/17.87. - REMOVED PER FPT/ATC.
8. TERMINAL ROUTES: RSRVE TO SHRMP UPDATED TO RIKKI TO SHRMP; DISTANCE UPDATED FROM 31.86 TO 31.85. - RSRVE REMOVED PER FPT/ACT.
9. TERMINAL ROUTES: HAXOL TO FEPID, SHRMP TO LIMDE, AND LIMDE TO FEPID REMOVED. - DUPLICATE LINES, UPDATED FIX NAMES.
10. TERMINAL ROUTES: HAXOL TO FEPID UPDATED TO HAXOL TO HERTZ; COURSE/DISTANCE UPDATED FROM 120.28/7.10 TO 120.24/7.11. - FEPID REMOVED PER FPT/ATC.
11. TERMINAL ROUTES: LIMDE TO FEPID UPDATED TO LIMDE TO HERTZ; COURSE/DISTANCE UPDATED FROM 302.42/7.33 TO 302.46/7.32. - FEPID REMOVED PER FPT/ATC.
12. TERMINAL ROUTES: FEPID TO CAVUB UPDATED TO HERTZ TO CAVUB; COURSE UPDATED FROM 031.35 TO 031.28; CAVUB RNP UPDATED FROM 0.50 TO 1.00. - FEPID REMOVED PER FPT/ATC.; IAW 8260.58A, TABLE 1-2-1.
13. TERMINAL ROUTES: MISSED APPROACH CA LEG: RW03 TO 222 MSL UPDATED TO RW03 TO 235 MSL. MISSED APPROACH DF LEG: 222 MSL TO ALGOE UPDATED TO 235 MSL, RNP 1.00 ADDED. - NEW LPV DA; IAW 8260.58A TABLE 1-2-1.
14. UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3000 DIRECT BAMDE AND HOLD" TO "CLIMB TO 3000 DIRECT ALGOE AND HOLD, CONTINUE TO CLIMB-IN-HOLD TO 3000." - CLIMB-IN-HOLD REQUIRED.
15. PROFILE: LINES 2/5: FEPID UPDATED TO HERTZ. - FEPID REMOVED PER FPT/ATC.
16. PROFILE LINE 2: COURSE UPDATED FROM 031.35 TO 031.28, HOLD-IN-LIEU MAX ALTITUDE 6000 ADDED. - FEPID UPDATED TO HERTZ PER FPT/ATC; MAX ALTITUDES MUST BE DOCUMENTED IAW 8260.19H PARA 8-6-7 B(2).
17. PROFILE LINE 5: ADDED DISTANCE TO THLD FROM 200 HAT: 0.52; AND "DISTANCE TO THLD FROM 201 HATH: 0.47 NM" REMOVED FROM ADDITIONAL FLIGHT DATA. - LPV DA/HAT UPDATED.
18. PROFILE LINE 7: ADDED 20:1 IS CLEAR. - NO 20:1 PENETRATIONS EXIST.
19. CHART NOTES: DME/DME RNP-0.3 NA REMOVED; PBN REQUIREMENTS NOTE: RNP APCH ADDED. - IAW 8260.58A TABLE 1-2-1.
20. UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 43C (109F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5C OR ABOVE 54C. - UPDATED WEATHER STUDY (2014-2018) USED FOR SLOPE CALCULATIONS AND TO DETERMINE UPPER/LOWER TEMPERATURE LIMITS FOR UNCOMPENSATED BARO-VNAV SYSTEMS; FAHRENHEIT REMOVED IAW 8260.19H.
21. ADDED ADDITIONAL FLIGHT DATA: CHART CIRCLING ICON. - NEW CIRCLING RADII APPLIED IAW 8260.3D.
22. UPDATED ADDITIONAL FLIGHT DATA: FROM "CHART VDP AT 1.29 NM TO RW03*" TO "CHART VDP AT 1.28 NM TO RW03*." - VERIFIED WITH TARGETS BUILD.
23. UPDATED ADDITIONAL FLIGHT DATA: FROM "FAS OBST: 219 AAO 324909N/0800427W" TO "FAS OSBT: 215 AAO 324909N/0800427W." - NEW LNAV CONTROLLING OBSTACLE.
24. REMOVED ADDITIONAL FLIGHT DATA: CHART 153 TOWER 325207N/0800310W. - NO LONGER REQUIRED.
25. FAS DATA: CRC REMAINDER UPDATED FROM 926B2524 TO AFD01C47. - UPDATED FPAP LATITUDE/LONGITUDE FROM 325426.6500N/0800200.4500W TO 325426.6420N/0800200.4430W.
26. ALTERNATE MINIMUMS: CAT D 800-2 1/4 ADDED. - IAW 8260.3D TABLE 3-4-1.



COORDINATED WITH:

~~A4A~~ ☒ ~~ALPA~~ ☒ ~~AOPA~~ ☒ ~~APA~~ ☒ ~~HAI~~ ☐ ~~NBAA~~ ☒ OTHER: ZJX, CHS APP CON, CHS AMGR, CHS ATCT

FLIGHT CHECKED BY

BRANDON VANDERSCHAAF

Digitally signed by

OFFICE

DATE

WARDELL HENNING

FICO

9/1/2020

Sep 09, 2020

DEVELOPED BY

WARDELL HENNING (BARBARA GORMAN)

Digitally signed by

OFFICE

DATE

WARDELL HENNING

AJV-A432

01/29/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by

WARDELL HENNING

Sep 09, 2020

OFFICE

DATE

AJV-A430

TITLE

MANAGER

Sep 09, 2020

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCHS
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	325305.3460N
LTP/FTP LONGITUDE	0800244.1695W
LTP/FTP ELLIPSOIDAL HEIGHT	-00265
FPAP LATITUDE	325426.6420N
FPAP LONGITUDE	0800200.4430W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	AFD01C47

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00063
FPAP ORTHOMETRIC HEIGHT	+00063



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
CHARLESTON AFB/INTL	KCHS	RNAV (GPS) Y RWY 3	3	CHARLESTON	SC	46	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM CHS VORTAC TO HERTZ

<u>RNP</u>	<u>DISTANCE</u> 12.48	<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>
1.TOWER (45-001871)	324547.00N/0800612.00W		303	50	20	2C	1000				AT1697	3000
2.TERRAIN	325354.00N/0800321.00W		39 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM LOFTI TO HERTZ

<u>RNP</u>	<u>DISTANCE</u> 10.31	<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>
3.TOWER (45-000904)	324307.00N/0801849.00W		631	500	50	5D	1000				AT1369	3000
4.TERRAIN	324303.00N/0802015.00W		36 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
SEAMS

TO
ERGOW

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.90											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (45-000792)	330849.00N/0802307.30W		391	50	20	2C	1000				AT3609	5000
6.TERRAIN	330727.00N/0802527.00W		104 (100)								AS1500	1600

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

INITIAL: STEPDOWN

FROM
ERGOW

TO
HAXOL

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	17.87											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (45-000867)	325122.80N/0801707.30W		441	50	20	2C	1000				AT2559	4000
8.TERRAIN	330139.00N/0802251.00W		72 (100)								AS1500	1600

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



INITIAL

FROM

GMSTR

TO

LIMDE

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	25.75											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TOWER (45-000014)	324103.00N/0795314.00W		319	50	50	2D	1000				AT1981	3300
10.TERRAIN	323915.00N/0795636.00W		19 (0)								AS1500	1500

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

SEGMENT REMARKS:

INITIAL

FROM

RIKKI

TO

SHRMP

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	31.85											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TOWER (45-000004)	324745.00N/0795026.00W		1049	100	20	3C	1000				AT1251	3300
12.TERRAIN	325803.00N/0794815.00W		62 (100)								AS1500	1600

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

SEGMENT REMARKS:



INITIAL

FROM
HAXOL

TO
HERTZ

RNP	DISTANCE 7.11	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.TOWER (45-000851)	324440.65N/0801407.51W		533	50	20	2C	1000				AT1467	3000
14.TERRAIN	324627.00N/0801533.00W		39 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
SHRMP

TO
LIMDE

RNP	DISTANCE 6.81	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TOWER (45-000014)	324103.00N/0795314.00W		319	50	50	2D	1000				AT1981	3300
15.TERRAIN	324409.00N/0795530.00W		26 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
LIMDE

TO
HERTZ

RNP	DISTANCE 7.32	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
16.TOWER (45-000754)	323957.00N/0800310.00W		504	500	50	5D	1000				AT1496	3000
17.TERRAIN	324145.00N/0801018.00W		22 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: LNAV

FROM
HERTZ (IF/IAF)

TO
CAVUB

RNP	DISTANCE 6.68	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
18.TOWER (45-000658)	324646.76N/0800941.61W		448	20	3	1A	500				AT752	1700
19.TERRAIN	324615.00N/0800900.00W		32 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FACILITY
RNAV

RF CENTER FIX/DISTANCERF CENTER FIX/DISTANCE

QUALITY
25
CHECKED

FINAL: LNAV

FROM
CAVUB

TO
RW03

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.12		RW03			445						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
21.AAO	324909.00N/0800427.00W		215	50	20	2C	250					480

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
HERTZ

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
16.TOWER (45-000754)	323957.00N/0800310.00W		504	500	50	5D	1000				AT1496	3000
22.TERRAIN	324621.00N/0800906.00W		32 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW03

TO

ALGOE

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							380				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
23.TOWER (45-001724)	325843.00N/0800150.00W	349	20	3	1A	1000					1400
24.TERRAIN	330000.00N/0795851.00W	49 (0)								AS1500	1500

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											
25.ATCT (45-000230)	325340.81N/0800137.05W	1.3	494	233	20	3	1A	300			540
CATEGORY B											
25.ATCT (45-000230)	325340.81N/0800137.05W	1.81	494	233	20	3	1A	300			540
CATEGORY C											
26.TOWER (45-051424)	325430.60N/0795850.41W	2.84	554	235	250	50	4D	300		AC50	600
CATEGORY D											
27.STACK (45-000456)	325355.00N/0795759.00W	3.7	694	422	100	20	3C	300			740

CIRCLING REMARKS:



<u>AIRPORT</u> CHARLESTON AFB/INTL	<u>AIRPORT ID</u> KCHS	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 3	<u>AMDT NO.</u> 3	<u>CITY</u> CHARLESTON	<u>STATE</u> SC	<u>AIRPORT ELEVATION</u> 46	<u>FACILITY</u> RNAV
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MSA

CENTER
RW03

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	TWR (45-000706)	325529.00N/0794157.00W	089	17.7	2016	500	50	5D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:
VEGETATION HEIGHT: 100FT PER FPT.

QUALITY
25
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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CHS APP CON, CHS TOWER, ZJX ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KCHS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCHS	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 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 NOT REQUIRED. REDUNDANT WEATHER SERVICE AVAILABLE.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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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 - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW21 - HIRL, REIL, PAPI-4L	PIR-G	
RW33 - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 20.6	<u>TCH</u> 50.0	<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 checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -5C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -5C	<u>APT ISA</u> +14.91C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2015-2019).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 956 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



<u>AIRPORT</u> CHARLESTON AFB/INTL	<u>AIRPORT ID</u> KCHS	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 3	<u>AMDT NO.</u> 3	<u>CITY</u> CHARLESTON	<u>STATE</u> SC	<u>AIRPORT ELEVATION</u> 46	<u>FACILITY</u> RNAV
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and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

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

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<u>AIRPORT</u> CHARLESTON AFB/INTL	<u>AIRPORT ID</u> KCHS	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 3	<u>AMDT NO.</u> 3	<u>CITY</u> CHARLESTON	<u>STATE</u> SC	<u>AIRPORT ELEVATION</u> 46	<u>FACILITY</u> RNAV
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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	2.92
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	24.38
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.72
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	24.38
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD
COORDINATES
(IF STR-IN)

325305.35N/0800244.17W

ARP COORDINATES

325355.10N/0800225.90W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 15 DISTANCE 0.94 NM

FAF
COORDINATES

324825.19N/0800514.64W

FIX NAME
COORDINATES

REMARKS

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FACILITY
RNAV

TITLE
AERONAUTICAL INFORMATION SPECIALIST