

**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><b>AIRPORT ID</b></u> KAND	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 23	<u><b>ORIGINAL/AMENDMENT</b></u> 3	<u><b>CITY</b></u> ANDERSON	<u><b>STATE</b></u> SC		
<u><b>AIRPORT ELEVATION</b></u> 782	<u><b>TDZE</b></u> 754	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 23	<u><b>ORIGINAL/AMENDMENT</b></u> 2	<u><b>DATED</b></u> 07/19/2018	<u><b>MAG VAR</b></u> 5W	<u><b>EPOCH YEAR</b></u> 2005
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 29 DECEMBER 2022	<u><b>REQUIRED EFFECTIVE DATE</b></u> 12/29/2022	<u><b>CANCEL/SUSPEND</b></u>		

**TAA**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>ALTITUDE</b>
1. 141/30 CW 231/30	NOPT	141/7 CW 231/7		6300
2. 141/7 CW 231/7		OXTIC	IF/IAF	3000
3. 231/30 CW 321/30	NOPT	OXTIC	IF/IAF	3000
4. 321/30 CW 051/30		ZOKNU	IAF	3000
5. 051/30 CW 141/30		051/9 CW 141/9		7100
6. 051/9 CW 141/9		CULIG	IAF	3200

**TERMINAL ROUTES**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>LEG TYPE</b>	<b>FO/FB</b>	<b>RNP</b>	<b>COURSE</b>	<b>DISTANCE</b>	<b>ALTITUDE</b>
ZOKNU	IAF	OXTIC	NOPT	TF	FB	1.00	321.05	9.00	3000
CULIG	IAF	OXTIC	NOPT	TF	FB	1.00	140.91	9.00	3000
OXTIC	IF/IAF	BUFZI		TF	FB	1.00	230.98	6.02	2500
BUFZI	FAF	RW23	MAP	TF	FO	0.30	230.93	5.36	
RW23	MAP	1102 MSL		CA			230.93		
1102 MSL		OYUNA		DF	FO	1.00			2500



**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW23

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2500 DIRECT OYUNA AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NE OXTIC, RT, 230.98 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	230.93	FAF: BUFZI	DIST FAF TO MAP: 5.36		DIST FAF TO THLD: 5.36
4. MIN ALT:	OXTIC 3000, BUFZI 2500				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	348 HAT: 0.97	GS ANT:
6. MIN GP INCPT:	2500	GP ALT AT PFAF :	BUFZI 2500	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 45.0	IM:
8. MSA FROM:					

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: CIRCLING RWY 17, 35 NA AT NIGHT.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CLEMSON ALTIMETER SETTING.  
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -7°C OR ABOVE 54°C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLEMSON ALTIMETER SETTING AND INCREASE LPV DA TO 1149 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1267 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY LNAV CATS C/D AND CIRCLING CATS C/D 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD SW, RT, 050.80 INBOUND.  
FAS OBST: 1030 AAO 343303N/0823752W.  
1080 AAO 343406N/0823736W.  
CHART VDP AT 1.53 NM TO RW23.  
WAAS CHANNEL # 90540  
REFERENCE PATH ID: W23A  
CHART CIRCLING ICON.  
LTP HAE: 197.3 M



**MINIMUMS:**

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

**ALTERNATE:** NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
LPV DA	1102	1	348	1102	1	348	1102	1	348	1102	1	348			
LNAV/VNAV DA	1220	1 3/8	466	1220	1 3/8	466	1220	1 3/8	466	1220	1 3/8	466			
LNAV MDA	1280	1	526	1280	1	526	1280	1 1/2	526	1280	1 1/2	526			
CIRCLING	1280	1	498	1320	1	538	1440	1 3/4	658	1500	2 1/4	718			

**CHANGES - REASONS**

1. UPDATED TAA STRAIGHT-IN COURSES: ALL 161 CHANGED TO 141, ALL 266 CHANGED TO 321. - MODIFIED Y CONFIGURATION NO LONGER ALLOWED; IAFS CULIG AND ZOKNU MOVED.
2. INCREASED TAA RIGHT BASE STEPDOWN ALTITUDE FROM 3000 TO 3200. - NEW OBSTACLE EVALUATION.
3. UPDATED INITIAL ZOKNU COURSE/DISTANCE FROM 296.04/5.30 TO 321.05/9.0. - MODIFIED Y CONFIGURATION NO LONGER ALLOWED.
4. UPDATED INITIAL CULIG COURSE/DISTANCE FROM 165.96/5.30 TO 140.91/9.0. - MODIFIED Y CONFIGURATION NO LONGER ALLOWED.
5. REMOVED LNAV STEPDOWN YURUR/2.10NM TO RW23. - LOWER MINS ACHIEVED WITHOUT STEPDOWN.
6. UPDATED MISSED APPROACH CA LEG ALTITUDE FROM 1109 TO 1102. - LPV DA UPDATED.
7. DECREASED LPV DA/HAT FROM 1109/355 TO 1102/348. - NEW OBSTACLE EVALUATION.
8. INCREASED LNAV/VNAV DA/HAT FROM 1218/464 TO 1220/466. - UPDATED OBSTACLE ALTITUDE.
9. INCREASED LNAV MDA/HAT FROM 1180/426 TO 1280/526, VISIBILITY CAT C/D FROM 1 1/4 TO 1 1/2. - NEW OBSTACLE EVALUATION; STEPDOWN REMOVED.
10. INCREASED CIRCLING CAT A MDA/HAA FROM 1260/478 TO 1280/498. - MATCH STRIAIGHT-IN MINIMUMS.
11. PROFILE LINE 2: ADDED HOLD-IN-LIEU MAX ALTITUDE 6000. - IAW 8260.19I PARA 8-6-7 B(2).
12. PROFILE LINE 4: REMOVED YURUR/2.10NM TO RW23 1460\*. - STEPDOWN FIX REMOVED TO ACHIEVE LOWER MINS.
13. PROFILE LINE 5: ADDED DIST TO THLD FROM 348 HAT: 0.97; REMOVED ADDITIONAL FLIGHT DATA: "DISTANCE TO THLD FROM 355 HAT: 1.00 NM". - UPDATED FORMS; DECREASED LPV MINIMUMS.
14. UPDATED PBN REQUIREMENTS NOTES FROM "RNP APCH" TO "RNP APCH - GPS." - IAW 8260.19C 8-6-8 B.
15. UPDATED CHART NOTE "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -8C OR ABOVE 54C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -7C OR ABOVE 54C. - UPDATED WEATHER STUDY (2017-2021) USED FOR SLOPE CALCULATIONS AND TO DETERMINE UPPER/LOWER TEMPERATURE LIMITS FOR UNCOMPENSATED BARO-VNAV SYSTEMS.
16. ADDED CHART NOTES: ALTERNATE ALTIMETER NOTE AND "BARO-VNAV AND VDP NA WHEN USING CLEMSON ALTIMETER SETTING." - FPT/GREER APPROACH REQUEST.
17. UPDATED CHART FAS OBST: 927 TOWER 343109N/0824137W; 1076 AAO 343312N/0823659W TO FAS OBST: 1030 AAO 343303N/0823752W; 1080 AAO 343406N/0823736W. - NEW LNAV CONTROLLING OBSTACLE; 7.1 OBSTACLE AT BUFZI.
18. UPDATED CHART VDP AT "1.21 NM TO RW23\*, \*LNAV" ONLY TO "1.53 NM TO RW 23." - UPDATED LNAV MINIMUMS; \*LNAV ONLY NO LONGER REQUIRED.
19. ALTERNATE MINIMUMS - ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE." - IAW 8260.19I 8-6-11 B(4).
20. FAS DATA: UPDATED FPAF LAT/LONG FROM "342858.1170N/0824323.1990W" TO "342858.1240N 0824323.2075W." - UPDATED AIRNAV DATA.
21. FAS DATA: UPDATED CRC REMAINDER FROM 96E2B6FC TO 02662ECF. - UPDATED FPAP LAT/LONG.



AIRPORT ID  
KAND

PROCEDURE NAME  
RNAV (GPS) RWY 23

ORIGINAL/AMENDMENT  
3

CITY  
ANDERSON

STATE  
SC

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ATL, GSP APP CON, AND FSS, AMGR

**FLIGHT CHECKED BY**

PENDING

*Digitally signed by*

**CASIMIR L TABAKA**

Sep 30, 2022

**OFFICE**

**DATE**

**DEVELOPED BY**

CASIMIR L. TABAKA (BARBARA GORMAN)

*Digitally signed by*

**CASIMIR L TABAKA**

Sep 29, 2022

**OFFICE**

AJV-A432

**DATE**

08/10/2022

**APPROVED BY**

JOHNNIE BAKER

*Digitally signed by*

**CASIMIR L TABAKA**

Sep 29, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER

QUALITY  
16  
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAND
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	343000.2460N
LTP/FTP LONGITUDE	0824205.8105W
LTP/FTP ELLIPSOIDAL HEIGHT	+01973
FPAP LATITUDE	342858.1240N
FPAP LONGITUDE	0824323.2075W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	02662ECF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02277
FPAP ORTHOMETRIC HEIGHT	+02277

