

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 ID</u> KGSO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23L	<u>ORIGINAL/AMENDMENT</u> 2F	<u>CITY</u> GREENSBORO	<u>STATE</u> NC		
<u>AIRPORT ELEVATION</u> 926	<u>TDZE</u> 889	<u>SUPERSEDED</u> RNAV (GPS) RWY 23L	<u>ORIGINAL/AMENDMENT</u> 2E	<u>DATED</u> 10/06/2022	<u>MAG VAR</u> 8W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 NOVEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 144/30 CW 324/30	NOPT	144/25 CW 324/25		3700
2. 144/25 CW 324/25		JELEB	IF/IAF	3200
3. 324/30 CW 054/30		324/15 CW 054/15		3700
4. 324/15 CW 054/15		GICES	IAF	3200
5. 054/30 CW 144/30		054/15 CW 144/15		4900
6. 054/15 CW 144/15		JUTSO	IAF	3200

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GICES	IAF	JELEB	NOPT	TF	FB	1.00	324.15	5.00	3200
JUTSO	IAF	JELEB	NOPT	TF	FB	1.00	144.07	5.00	3200
JELEB	IF/IAF	NERLE		TF	FB	1.00	234.11	6.01	2900
NERLE	FAF	RW23L	MAP	TF	FO	0.30	234.05	6.06	
RW23L	MAP	1089 MSL		CA			234.05		
1089 MSL		COSIS		DF	FO	1.00			3000



MISSED APPROACH**MAP:**

LPV: DA
LNAV/VNAV: DA
LNAV: RW23L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT COSIS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NE JELEB, RT, 234.11 INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	234.05	FAF: NERLE	DIST FAF TO MAP: 6.06		DIST FAF TO THLD: 6.06
4. MIN ALT:	JELEB 3200, NERLE 2900				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.47	GS ANT:
6. MIN GP INCPT:	2900	GP ALT AT PFAF :	NERLE 2900	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 52.1	IM:
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 053.89 INBOUND.
CHART FAS OBST: 1013 TREE (37-135137) 360831N/0795328W.
CHART VDP AT 1.06 NM TO RW23L.
WAAS CHANNEL # 97710
REFERENCE PATH ID: W23A
CHART CIRCLING ICON.
LTP HAE: 238.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2

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	1089	1800	200	1089	1800	200	1089	1800	200	1089	1800	200			
LNAV/VNAV DA	1283	3500	394	1283	3500	394	1283	3500	394	1283	3500	394			
LNAV MDA	1280	2400	391	1280	2400	391	1280	3500	391	1280	3500	391			
CIRCLING	1440	1	514	1440	1	514	1700	2 1/4	774	1700	2 1/2	774			

CHANGES - REASONS

1. ADMINISTRATIVE ONLY AMENDMENT FOR MAGVAR UPDATE FROM 6W TO 8W - CHANGED ALL OF THE FOLLOWING COURSES BY ADDING 2 DEGREES: TAA SECTOR BOUNDARY DEFINITIONS, HILPT COURSE, ALL TERMINAL ROUTES COURSES, LINE 2 HOLDING COURSE, LINE 3 FAC COURSE, MISSED APPROACH COURSES AND HOLDING COURSE - THE S FILE FOR THE RWY 5L PROCEDURE SHOWS THE MAGVAR CHANGE EFFECTIVE 08/27/2009 AND AT THAT TIME THE NEW RUNWAY 5R/23L WAS BEING ACTIVATED. THE 5R/23L PROCEDURES (ILS 5R/23L, RNAV 5R/23L) ALL PUBLISHED 01/15/2009. BOTH OF THE ILS PROCEDURES HAD MAGVAR UPDATE REFLECTED ON THE CHART AT SOME POINT, BUT THE RNAV PROCEDURES DIDN'T.

2. NOTE: DELETED CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000 - NO LONGER NEEDED.

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZTL, GSO APP CON, GSO 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**DATE**

Digitally signed by

JASON KRETSCHMER

Jul 11, 2023

DEVELOPED BY

STEVEN DOUGHERTY

Digitally signed by

JASON KRETSCHMER

Jul 11, 2023

OFFICE

AJV-A421

DATE

06/23/2023

APPROVED BY

JASON KRETSCHMER

Digitally signed by

JASON KRETSCHMER

Jul 11, 2023

OFFICE

AJV-A421

DATE**TITLE**
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGSO
RUNWAY	RW23L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	360636.5130N
LTP/FTP LONGITUDE	0795513.1170W
LTP/FTP ELLIPSOIDAL HEIGHT	+02384
FPAP LATITUDE	360527.8100N
FPAP LONGITUDE	0795640.7700W
THRESHOLD CROSSING HEIGHT (TCH)	00052.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.25
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	420C13B7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02700
FPAP ORTHOMETRIC HEIGHT	+02700