

**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> GSO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 3B	<u>CITY</u> GREENSBORO	<u>STATE</u> NC		
<u>AIRPORT ELEVATION</u> 926	<u>TDZE</u> 902	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 3A	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 8W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 16 MAY 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 233/30 CW 053/30	NOPT	IRKUW	IF/IAF	3700
2. 053/30 CW 143/30		ZIGDI	IAF	3700
3. 143/30 CW 233/30		PUXEE	IAF	3700

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>
ZIGDI	IAF	IRKUW	NOPT	TF	FB	1.00	053.19	8.00	3700
PUXEE	IAF	IRKUW	NOPT	TF	FB	1.00	233.33	8.00	3700
IRKUW	IF/IAF	OKZIF		TF	FB	1.00	323.26	6.13	2700
OKZIF	FAF	RW32	MAP	TF	FO	0.30	323.21	5.49	
RW32	MAP	1102 MSL		CA			323.21		
1102 MSL		FAMOV		DF	FO	1.00			4100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4100 DIRECT FAMOV AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4100.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE IRKUW, RT, 323.26 INBOUND, 3700 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	323.21	FAF:	OKZIF	DIST FAF TO MAP:	5.49	DIST FAF TO THLD:	5.49							
4.	MIN ALT:	IRKUW 3700, OKZIF 2700													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		200 HAT:	0.47	GS ANT:				
6.	MIN GP INCPT:	2700	GP ALT AT PFAF:	OKZIF 2700					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	52.4							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -7°C OR ABOVE 54°C.
CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 143.05 INBOUND.
CHART FAS OBST: 1149 TOWER (37-002981) 360257N/0795255W.
CHART VDP AT 1.40 NM TO RW32.
WAAS CHANNEL # 61035
REFERENCE PATH ID: W32A
CHART CIRCLING ICON.
LTP HAE: 242.8 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	1102	3/4	200	1102	3/4	200	1102	3/4	200	1102	3/4	200			
LNAV/VNAV DA	1419	1 3/8	517	1419	1 3/8	517	1419	1 3/8	517	1419	1 3/8	517			
LNAV MDA	1400	1	498	1400	1	498	1400	1 3/8	498	1400	1 3/8	498			
CIRCLING	1440	1	514	1440	1	514	1700	2 1/4	774	1700	2 1/2	774			



CHANGES - REASONS

1. INCORPORATED P-NOTAM FDC 7/1015 FOR AMDT 3A.
2. CHANGED CA LEG ALTITUDE FROM "1100" TO "1102" -- CHANGE FROM THRESHOLD TO TDZE ANNOTATED IN P-NOTAM FDC 7/1015.
3. CHANGED MA INSTRUCTIONS FROM "CLIMB TO 3700 DIRECT FAMOV AND HOLD" TO "CLIMB TO 4100 DIRECT FAMOV AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4100" -- CALCULATED AIRCRAFT ALTITUDE AT FAMOV IS BELOW 3700 AND CIH CONTROLLING OBSTACLE DRIVES MINIMUM HOLDING ALTITUDE INCREASE.
4. ADDED "MAX 6000" IN PROFILE LINE 2 -- UPDATED IAW 8260.19I, 8-6-7.B(2).
5. CHANGED AND MOVED "DISTANCE TO THLD FROM 200 HATH: 0.46 NM" IN ADDITIONAL FLIGHT DATA TO "200 HAT: 0.47" IN PROFILE LINE 5 -- UPDATED IAW 8260.19I, 8-6-7.E(3).
6. CHANGED "34:1 IS CLEAR" TO "34:1 IS NOT CLEAR" IN PROFILE LINE 7 AND ADDED NOTE "RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" -- NEW 34:1 OBSTACLE.
7. ADDED "20:1 IS CLEAR" IN PROFILE LINE 7 -- UPDATED IAW 8260.19I, 8-6-7.G(3)(A).
8. DELETED CHART NOTE "DME/DME RNP-0.3 NA" AND ADDED PBN REQUIREMENTS NOTE "RNP APCH - GPS" -- UPDATED IAW 8260.19I, 8-6-8.B(2).
9. DELETED BACK-UP ALTIMETER NOTES -- KGSO HAS REDUNDANT ALTIMETER SOURCES.
10. ADDED ID TO CHART FAS OBST IN ADDITIONAL FLIGHT DATA -- UPDATED IAW 8260.19I, 8-6-10.C.
11. CHANGED VDP FROM "0.41 NM" TO "0.40 NM" IN ADDITIONAL FLIGHT DATA -- RECALCULATED IN TARGETS 7.1.
12. CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM "1 3/4" TO "1 3/8" -- UPDATED IAW 8260.3E VISIBILITY TABLES.
13. CRC REMAINDER CHANGED FROM "4F67F9BO" TO "20841792" -- LTP/FTP COORDINATES CHANGED FROM "360513.3995N/0795613.9850W" TO "360513.3990N/0795613.9830W" AND FPAP COORDINATES CHANGED FROM "380616.6610N/0795731.5190W" TO "360616.6570N/0795731.5205W".
14. CHANGED UNCOMPENSATED BARO-VNAV NOTE MINIMUM TEMPERATURE FROM "-10C" TO "-7C" -- NEW ACT HISTORY 2019-2023.

COORDINATED WITH:

A4A☒ ALPA☒ AOPA☒ APA☒ HAI☐ NBAA☒ OTHER:

ZTL, GSO APP CON, GSO ATCT, AMGR

FLIGHT CHECKED BY

JON D HOLLAND

Digitally signed by

ALLAN WILL

Mar 01, 2024

OFFICE

FPO

DATE

02/29/2024

Digitally signed by

ALLAN WILL

Mar 01, 2024

OFFICE

AJV-A423

DATE

08/16/2023

Digitally signed by

ALLAN WILL

Mar 01, 2024

OFFICE

AJV-A423

DATE

01/25/2024

TITLE

MANAGER

APPROVED BY

ALLAN WILL



AIRPORT ID
GSO

PROCEDURE NAME
RNAV (GPS) RWY 32

ORIGINAL/AMENDMENT
3B

CITY
GREENSBORO

STATE
NC

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGSO
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	360513.3990N
LTP/FTP LONGITUDE	0795613.9830W
LTP/FTP ELLIPSOIDAL HEIGHT	+02428
FPAP LATITUDE	360616.6570N
FPAP LONGITUDE	0795731.5205W
THRESHOLD CROSSING HEIGHT (TCH)	00052.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0808
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER	20841792
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02743
FPAP ORTHOMETRIC HEIGHT	+02743

QUALITY
6
CHECKED