

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> AUGUSTA RGNL AT BUSH FIELD	<u>AIRPORT ID</u> KAGS	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 8	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> AUGUSTA	<u>STATE</u> GA
<u>AIRPORT ELEVATION</u> 146	<u>TDZE</u> 137	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 8	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/26/2014	<u>MAG VAR</u> 4W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 SEPTEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1990

**TERMINAL ROUTES**

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-19.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IRQ VORTAC		WOBAS		TF	FB	1.00	199.48	19.12	2000
SARDY		HEPIG		TF	FB	1.00	292.51	21.71	2000
WOBAS	IAF	WONIL	←	TF	FB	1.00	157.10	7.00	2000
HEPIG	IAF	WONIL	←	TF	FB	1.00	337.16	7.00	2000
WONIL	IF	GONRE		TF	FB	1.00	067.13	6.80	2000
GONRE	FAF	DAYTE/2.80 NM TO RW08		TF	FB	0.30	082.14	2.89	
DAYTE/2.80 NM TO RW08		RW08	MAP	TF	FO	0.30	082.14	2.80	
RW08	MAP	1200 MSL		CA			082.14		1200
1200 MSL		HEPIG		DF	FO	1.00			2000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW08

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2000 DIRECT HEPIG AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
4  
CHECKED

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT WONIL				
3. FAC:	082.14	FAF: GONRE	DIST FAF TO MAP: 5.69	DIST FAF TO THLD: 5.69	
4. MIN ALT:	WONIL 2000, GONRE 2000, DAYTE/2.80 NM TO RW08 1080*				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	532 HAT: 1.50	GS ANT:
6. MIN GP INCPT: 2000	GP ALT AT FAF : GONRE 2000			OM:	MM: IM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 55.0		
8. MSA FROM:	RW08 3000				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING DANIEL FIELD ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DANIEL FIELD ALTIMETER SETTING AND INCREASE LPV DA TO 724 FEET AND LNAV/VNAV DA TO 829 FEET AND ALL MDA 60 FEET; INCREASE LNAV CATS C/D VISIBILITY 1/8 SM AND CIRCLING CATS C/D VISIBILITY 1/4 SM.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SARDY ON V185 SOUTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON IRQ VORTAC RADIALS 118 CW 272.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART R-3004  
CHART VDP AT 1.57 NM TO RW08\*  
\*LNAV ONLY  
WAAS CHANNEL #90328  
REFERENCE PATH ID: W08A  
CHART FAS OBST: 439 ANTENNA 332148N/0820100W.  
HOLD SE, RT, 337.16 INBOUND  
LTP HAE: 10.6 M



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

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

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	669	1 3/4	532	669	1 3/4	532	669	1 3/4	532	669	1 3/4	532			
LNAV/VNAV DA	774	2 1/4	637	774	2 1/4	637	774	2 1/4	637	774	2 1/4	637			
LNAV MDA	700	1	563	700	1	563	700	1 5/8	563	700	1 5/8	563			
CIRCLING	780	1	634	780	1	634	780	1 3/4	634	900	2 1/2	754			

**CHANGES - REASONS**

1. CHANGED CHART NOTE: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DANIEL FIELD ALTIMETER SETTING AND INCREASE ALL DA 55 FEET AND ALL MDA 60 FEET; INCREASE LPV ALL CATS AND LNAV CATS C/D VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS AND CIRCLING CATS C/D VISIBILITY 1/4 MILE" TO READ "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DANIEL FIELD ALTIMETER SETTING AND INCREASE LPV DA TO 724 FEET AND LNAV/VNAV DA TO 829 FEET AND ALL MDA 60 FEET; INCREASE LNAV CATS C/D VISIBILITY 1/8 SM AND CIRCLING CATS C/D VISIBILITY 1/4 SM." - NEW CONTROLLING OBSTACLES.
2. CHANGED CHART NOTE HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA TO READ RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - NEW FORMAT IAW 8260.19H AND 20:1 PENETRATIONS REMOVED, NOW ONLY 34:1 PENETRATIONS EXIST.
3. ADDED CHART CIRCLING ICON - TO MATCH RNAV (GPS) Y RWY 8 PROCEDURE.
4. REMOVED CHART NOTES: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H.
5. CHANGED CHART NOTE: BARO-VNAV NA WHEN USING DANIEL FIELD ALTIMETER SETTING TO READ "BARO-VNAV AND VDP NA WHEN USING DANIEL FIELD ALTIMETER SETTING." - ADDED CHARTING OF VDP.
6. ADDED CHARTING OF VDP - 20:1 PENETRATIONS NO LONGER EXIST.
7. CHANGED LNAV/VNAV CRITICAL TEMPS FROM -8/42C TO -15/54C - NEW VALUES FOR NO HISTORICAL WEATHER DATA (USING STD -30 DEVIATION).
8. CHANGED APT ELEV FROM 144 TO 146 - NEW AIRPORT SURVEY DATA AVBL IN AIRNAV.
9. REMOVED FAHRENHEIT VALUES FROM LNAV/VNAV CRITICAL TEMPS - NO LONGER REQUIRED.
10. CHANGED CIRCLING CAT D MDA/VISIBILITY FROM 780/2 TO 900/2 1/2 - NEW CONTROLLING OBSTACLE DUE TO NEW RUNWAY VG SURVEY AND UPDATED RADII.
11. FAS OBST CHANGED FROM 439 TREE TO 439 ANTENNA - NEW OBSTACLE STUDY.
12. LPV DA CHANGED FROM 646 TO 669 - NEW CONTROLLING OBSTACLE DUE TO NEW RUNWAY VG SURVEY.
13. FAS DATA BLOCK: CRC REMAINDER CHANGED FROM 999876E5 TO 67051795 - RECOMPUTED USING UPDATED LTP AND FPAP LAT/LONG.
14. DELETED CHART NOTE: NIGHT LANDING: RWY OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD - 20:1 VISUAL SURFACE IS CLEAR.
15. CHANGED FEEDER RNP VALUES FROM 2.00 TO 1.00 - IMPLEMENTATION OF NEW RNP CRITERIA.
16. CHANGED DISTANCE TO THLD FROM 509 HATH: 1.42 NM TO DISTANCE TO THLD FROM 532 HAT: 1.50 NM - INCREASE IN LPV HAT.
17. ADDED "20:1 IS CLEAR" TO LINE 7 - VISUAL SURFACE IS CLEAR.
18. REMOVED CHARTING OF ASR - RADAR PROCEDURES NO LONGER PUBLISHED AT AIRPORT.

CHANGES FROM ORIG-A HAVE BEEN INCORPORATED INTO THIS AMENDMENT.

5/15/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/08/2019.

1. CHANGED CIRCLING CAT D MDA FROM 940 TO 900, HAA CHANGED FROM 794 TO 754 - TO MATCH THE OTHER IAPS CHARTING 6-20-2019.
2. CHANGED CIRCLING CAT D CONTROLLING OBSTACLE FROM 629 FT AAO 331928.00N/0820055.06W (2C) TO 595 FT MSL TOWER (13-022625) 331910.43N/0820107.11W (1A) - TO MATCH THE OTHER IAPS CHARTING 6-20-2019.
3. CHANGED CHANGE/REASON #10 FROM READING "10. CHANGED CIRCLING CAT D MDA/VISIBILITY FROM 780/2 TO 940/2 1/2 - NEW CONTROLLING OBSTACLE DUE TO NEW RUNWAY VG SURVEY AND UPDATED RADII" TO READ "10. CHANGED CIRCLING CAT D MDA/VISIBILITY FROM 780/2 TO 900/2 1/2 - NEW CONTROLLING OBSTACLE DUE TO NEW RUNWAY VG SURVEY AND UPDATED RADII" - TO MATCH NEW VALUES.

7/29/2019: THIS IS AN CORRECTED COPY OF THE FORM APPROVED ON 07/01/2019.

1. DELETED NOPT FROM WOBAS AND HEPIC INITIALS - NO COURSE REVERSAL EXISTS.



AIRPORT

AUGUSTA RGNL AT BUSH FIELD

AIRPORT ID

KAGS

PROCEDURE NAME

RNAV (GPS) Z RWY 8

ORIGINAL/AMENDMENT

ORIG-B

CITY

AUGUSTA

STATE

GA

COORDINATED WITH:

A4A ☒    ALPA ☒    AOPA ☒    APA ☐    HAI ☐    NBAA ☒    OTHER: AGS ATCT. AMGR, ATA

FLIGHT CHECKED BY

STEPHEN FRANCIS KOCH

*Digitally signed by*

**CASIMIR L TABAKA**

Jul 29, 2019

OFFICE

FIOG

DATE

06/26/2019

DEVELOPED BY

DAVID DANNER (JOHN LINDSEY)

*Digitally signed by*

**CASIMIR L TABAKA**

Jul 29, 2019

OFFICE

AJV-A421

DATE

03/08/2019

APPROVED BY

MARLON ROBINSON

*Digitally signed by*

**CASIMIR L TABAKA**

Jul 29, 2019

OFFICE

AJV-A420

DATE

TITLE  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAGS
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	332157.7315N
LTP/FTP LONGITUDE	0815809.2490W
LTP/FTP ELLIPSOIDAL HEIGHT	+00106
FPAP LATITUDE	332215.9750N
FPAP LONGITUDE	0815625.1065W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
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	67051795

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00408
FPAP ORTHOMETRIC HEIGHT	+00408

