

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)-A	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> AUGUSTA	<u>STATE</u> GA	
<u>AIRPORT ELEVATION</u> 146	<u>TDZE</u>	<u>SUPERSEDED</u> RNAV (GPS)-A	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 11/18/2010	<u>MAG VAR</u> 4W	<u>EPOCH YEAR</u> 1990
<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>
MSTRS		DWOOD		TF	FB	1.00	098.21	23.01	3000
LUKES		DWOOD		TF	FB	1.00	184.69	15.37	3000
STUGE		PAANE		TF	FB	1.00	332.34	23.57	3000
DWOOD	IAF	THURM		TF	FB	1.00	098.27	11.79	3000
THURM		SWTEA		TF	FB	1.00	113.94	6.00	3000
SWTEA		BOSHR		TF	FB	1.00	205.09	11.00	3000
PAANE	IAF	EZZGO		TF	FB	1.00	296.52	3.72	3000
EZZGO		BOSHR		TF	FB	1.00	294.05	5.00	3000
BOSHR	IF	HAMBG		TF	FB	1.00	205.04	6.00	2500
HAMBG	FAF	RW17	MAP	TF	FO	0.30	205.02	5.00	
RW17	MAP	546 MSL		CA					
546 MSL		CLUBC		DF	FB	1.00			
CLUBC		BARDE		TF	FO	1.00	164.04	9.91	2100



MISSED APPROACH

MAP:
RW17

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 2100 DIRECT CLUBC AND ON TRACK 164.04 TO BARDE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT BOSHR

3. FAC: 205.02

FAF: HAMBG

DIST FAF TO MAP: 5.00

DIST FAF TO THLD:

4. MIN ALT: BOSHR 3000, HAMBG 2500

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1:

20:1:

TCH:

8. MSA FROM: RW17 3000

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DANIEL FIELD ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET; INCREASE CIRCLING CATS C/D VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

FAC CROSSES RW17 THLD.
CHART CIRCLING ICON.
CHART FAS OBST: 407 PLANT 332646N/0815542W.
HOLD S, RT, 352.24 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
CIRCLING	780	1	634	780	1	634	780	1 3/4	634	900	2 1/2	754			



CHANGES - REASONS

- 1. DELETED "ASR"FROM NOTES SECTION - NO RADAR APPROACHES PUBLISHED AT THIS AIRPORT.
- 2. REMOVED "DME/DME RNP-0.3 NA." AND ADDED PBN REQUIREMENTS NOTE "RNP APCH".
- 3. DELETED CHART NOTE: CIRCLING TO RWY 8 NA AT NIGHT - 20:1 PENETRATIONS REMOVED.
- 4. DELETED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 26 NA AT NIGHT - NOTE NO LONGER APPLY.
- 5. UPDATED RNP VALUE FOR INTERMEDIATE SEGMENT FROM 0.5 TO 1.00 - IAW WITH CURRENT CRITERIA.
- 6. CHANGED FEEDER RNP VALUE FROM 2.00 TO 1.00 - IAW WITH CURRENT CRITERIA.
- 7. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - NEW CIRCLING CRITERIA APPLIED.
- 8. CHANGED CA ALTITUDE FROM 544 TO 546 - AIRPORT ELEVATION CHANGED FROM 144 TO 146.
- 9. ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DANIEL FIELD ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET; INCREASE CIRCLING CATS C/D VISIBILITY 1/4 SM - UPDATE CHART NOTES TO CURRENT CRITERIA.
- 10. ADDED NA WHEN LOCAL ALTIMETER WEATHER NOT AVAILABLE TO ALTERNATE MINIMUMS SECTION - TO COINCIDE WITH BACKUP ALTIMETER NOTE.
- 11. INCREASED CAT D CIRCLING MDA/HAA FROM 780/636 TO 900/754 - NEW CIRCLING CRITERIA APPLIED.

COORDINATED WITH:

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

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

Digitally signed by

DEVELOPED BY

DONALD H. LANIER (DEXTER SWEETING) *Digitally signed by*
DONALD H LANIER

DONALD H LANIER

Mar 07, 2019

OFFICE

AJV-A431

DATE

12/27/2018

APPROVED BY

PATRICK MULQUEEN *Digitally signed by*
DONALD H LANIER
Mar 07, 2019

OFFICE

DATE

TITLE
MANAGER



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

<u>AIRPORT</u> AUGUSTA RGNL AT BUSH FIELD	<u>AIRPORT ID</u> KAGS	<u>PROCEDURE NAME</u> RNAV (GPS)-A	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> AUGUSTA	<u>STATE</u> GA	<u>AIRPORT ELEVATION</u> 146	<u>FACILITY</u> RNAV
---	---------------------------	---------------------------------------	---------------------------	------------------------	--------------------	---------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
MSTRS

TO
DWOOD

<u>RNP</u>	<u>DISTANCE</u> 23.01	<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 (13-001196)	334432.00N/0823116.00W		1049	500	50	5D	1000				AT951	3000
2.TERRAIN	334430.00N/0823116.00W		768 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM
LUKES

TO
DWOOD

<u>RNP</u>	<u>DISTANCE</u> 15.37	<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 (45-002352)	340119.13N/0820608.25W		821	20	3	1A	1000				AT1179	3000
4.TERRAIN	340151.00N/0820927.00W		601 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:



HMAS

RF CENTER FIX/DISTANCE

HMAS

RF CENTER FIX/DISTANCE

QUALITY
18
CHECKED

INITIAL: STEPDOWN

FROM

THURM

TO

SWTEA

<u>RNP</u>	<u>DISTANCE</u> 6.00	<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>
9.TOWER (45-000657)	334519.43N/0815042.65W		1116	500	50	5D	1000				AT884	3000
10.TERRAIN	334757.00N/0815133.00W		663 (700)								AS1500	2200

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

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM

SWTEA

TO

BOSHR

<u>RNP</u>	<u>DISTANCE</u> 11.00	<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>
11.TOWER (45-002086)	334429.00N/0815145.00W		1018	500	50	5D	1000				AT982	3000
12.TERRAIN	334433.00N/0815218.00W		660 (700)								AS1500	2200

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

SEGMENT REMARKS:



FACILITY
RNAV

TO
EZZGO

HMAS

COMPUTATIONS

RF CENTER FIX/DISTANCE

TO
BOSHR

HMAS

COMPUTATIONS

RF CENTER FIX/DISTANCE

QUALITY
18
CHECKED

<u>AIRPORT</u> AUGUSTA RGNL AT BUSH FIELD	<u>AIRPORT ID</u> KAGS	<u>PROCEDURE NAME</u> RNAV (GPS)-A	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> AUGUSTA	<u>STATE</u> GA	<u>AIRPORT ELEVATION</u> 146	<u>FACILITY</u> RNAV				
INTERMEDIATE											
<u>FROM</u> BOSHR				<u>TO</u> HAMBG							
<u>RNP</u>	<u>DISTANCE</u> 6.00	<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>
16.TOWER (45-000756)	333055.50N/0815622.70W	1045	50	20	2C	500				AT955	2500
17.TERRAIN	333330.00N/0815554.00W	506 (500)								AS1500	2000
<u>COMPUTATIONS</u>											
<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>

SEGMENT REMARKS:

FINAL: LNAV

FROM
HAMBG

TO
RW17

RNP

DISTANCE
5.00

PAT

MAP
RW17

HAT

HMAS

OBSTRUCTION

COORDINATES

ELEV MSL

HORZ

VERT

AC

ROC

OCS

CG

CGTA

ADJUSTMENTS

MIN ALT

18.PLANT (13-000821)

332646.00N/0815542.00W

407

250

50

4D

250

AC50

720

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



Page 8 of 11

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
AUGUSTA RGNL AT BUSH FIELD	KAGS	RNAV (GPS)-A	ORIG-A	AUGUSTA	GA	146	RNAV

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FINAL IS CIRCLING ONLY.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

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



<u>AIRPORT</u> AUGUSTA RGNL AT BUSH FIELD	<u>AIRPORT ID</u> KAGS	<u>PROCEDURE NAME</u> RNAV (GPS)-A	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> AUGUSTA	<u>STATE</u> GA	<u>AIRPORT ELEVATION</u> 146	<u>FACILITY</u> RNAV
---	---------------------------	---------------------------------------	---------------------------	------------------------	--------------------	---------------------------------	-------------------------

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	0.67
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.19
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	201.02
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	165
DISTANCE FROM	THLD	TO 1500FT POINT	3.40
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.74
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	201.02
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	165

THRESHOLD
COORDINATES
(IF STR-IN)

ARP COORDINATES332211.80N/0815752.20W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 17 DISTANCE 0.81 NM

FAF
COORDINATES332737.18N/0815606.51W

FIX NAME
COORDINATES

REMARKS



AIRPORT

AUGUSTA RGNL AT BUSH
FIELD

AIRPORT ID

KAGS

PROCEDURE NAME

RNAV (GPS)-A

AMDT NO.

ORIG-A

CITY

AUGUSTA

STATE

GA

AIRPORT ELEVATION

146

FACILITY

RNAV

PART E: PREPARED BY

NAME

DONALD H. LANIER (DEXTER SWEETING)

OFFICE

AJV-A431

DATE

12/27/2018

TITLE

AERONAUTICAL INFORMATION SPECIALIST

