

**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> FKN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1D	<u>CITY</u> FRANKLIN	<u>STATE</u> VA		
<u>AIRPORT ELEVATION</u> 40	<u>TDZE</u> 35	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 12/05/2019	<u>MAG VAR</u> 9W	<u>EPOCH YEAR</u> 1985
<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>
GUMBE	IAF	ETUME	NOPT	TF	FB	1.00	066.14	19.11	2600
MAZON	IAF	ETUME	NOPT	TF	FB	1.00	125.38	11.82	2600
ETUME	IF/IAF	SURUE		TF	FB	1.00	089.83	6.50	1700
SURUE	FAF	ZIGTU/2.50 NM TO RW09		TF	FB	0.30	089.91	2.61	
ZIGTU/2.50 NM TO RW09		RW09	MAP	TF	FO	0.30	089.91	2.50	
RW09	MAP	440 MSL		CA			089.91		
440 MSL		JADIM		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT JADIM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | | |
|-------|---|--------------------|--------------------|----------|------------------------|-----|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | |
| 2. | HOLD W ETUME, RT, 089.83 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. | FAC: 089.91 | FAF: SURUE | DIST FAF TO MAP: | 5.11 | DIST FAF TO THLD: 5.11 | |
| 4. | MIN ALT: ETUME 2600, SURUE 1700, ZIGTU/2.50 NM TO RW09 860 | | | | | |
| 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: IS NOT CLEAR | 20:1: IS NOT CLEAR | TCH: | | |
| 8. | MSA FROM: RW09 2300 | | | | | |



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GUMBE ON V213 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

SURUE TO RW09: 3.0/40.
HOLD E, RT, 270.12 INBOUND.
CHART FAS OBST: 274 TOWER (51-000272) 364125N/0765643W.
CHART 524 TOWER (51-000975) 364116N/0770058W.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
LNAV MDA	580	1	545	580	1	545	580	1 5/8	545	580	1 5/8	545			

CHANGES - REASONS

- INCORPORATED PREVIOUS A1C P-NOTAM.
- MINIMUMS: REMOVED LPV, LNAV/VNAV MINIMUMS AND FAS DATA BLOCK – PER NOTAM !FDC 3/0960, VGS PENETRATIONS EXIST.
- TERMINAL ROUTES: CHANGED CA SEGMENT ALTITUDE FROM "319" TO "440" - LOWEST MDA OR AIRPORT ELEVATION PLUS 400 FEET.
- MISSED APPROACH: DELETED "LPV: DA" AND "LNAV/VNAV: DA" – REMOVED MINIMUMS.
- PROFILE LINE 2: ADDED "MAX 6000" - IAW 8260.19I, 8-6-7.B(2)
- PROFILE LINE 4: DELETED "*" FROM "ZIGTU/2.50 NM TO RW 09 860*" – NO LONGER REQUIRED PER CURRENT CRITERIA.
- PROFILE LINE 7: ADDED "20:1 IS NOT CLEAR" – 20:1 PENETRATIONS EXIST.
- NOTES: DELETED *LNAV ONLY - NO LONGER REQUIRED PER CURRENT CRITERIA.
- DELETED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C – REMOVED LNAV/VNAV MINIMUMS.
- DELETED CHART NOTE: BARO-VNAV NA WHEN USING SUFFOLK ALTIMETER SETTING - REMOVED LNAV/VNAV MINIMUMS.
- CHANGED CHART PLANVIEW NOTE: "PROCEDURE NA FOR ARRIVAL AT GUMBE ON V66 WESTBOUND AND ON V213 SOUTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVAL AT GUMBE ON V213 SOUTHWEST BOUND" – PER VORMON NTL PROGRAM.
- DELETED PLANVIEW NOTE: "PROCEDURE NA FOR ARRIVAL AT MAZON ON V266 WESTBOUND" – PER VORMON NATL PROGRAM.
- MOVED BACKUP ALTIMETER NOTE TO THE 8260-9 PART C: GENERAL REMARKS - IAW 82603.19I 8-6-9F(3) .
- ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "275 TOWER 364125N/0765643W" TO "274 TOWER (51-000272) 364125N/0765643W" - IAW 82603.19I 8-6-10C.
- ADDITIONAL FLIGHT DATA: DELETED "CHART 449 TOWER 364101N/0765955W" - NO LONGER REQUIRED TO DOCUMENT ADDITIONAL LNAV OBST PER CRITERIA.
- ADDITIONAL FLIGHT DATA: DELETED "DISTANCE TO THLD FROM 284 HAT: 0.77 NM", "WAAS CHANNEL # 86327", "REFERENCE PATH ID: W09A", AND "LTP HAE: -25.4 M" – REMOVED LPV AND LNAV/VNAV MINIMUMS.
- ADDITIONAL FLIGHT DATA: ADDED "SURUE TO RW09: 3.0/40" - IAW 82603.19I 8-6-100(1).



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER:

ZDC, ORF APP CON, VA DEPT OF AVIATION, 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
CASIMIR L TABAKA
Apr 05, 2024

Digitally signed by
CASIMIR L TABAKA
Apr 05, 2024

DEVELOPED BY

CASIMIR L. TABAKA (ROBERT A. SWINSON)

OFFICE

DATE

AJV-A43212/14/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Apr 05, 2024

OFFICE

DATE

TITLE
MANAGER

AJV-A432



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

<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>
FKN	RNAV (GPS) RWY 9	1D	FRANKLIN	VA	40	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM GUMBE **TO** ETUME

RNP 1.00 DISTANCE 19.11 PAT MAP HAT HMAS

<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>
TOWER (37-001226)	363003.00N/0772457.00W	516	500	50	5D	1000				AT1084	2600
TERRAIN	363136.00N/0772842.00W	151 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM MAZON **TO** ETUME

RNP 1.00 DISTANCE 11.82 PAT MAP HAT HMAS

<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>
TOWER (51-001202)	364218.69N/0771330.32W	403	20	3	1A	1000				AT1197	2600
TERRAIN	364527.00N/0772139.00W	135 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
8
CHECKED

INTERMEDIATE

FROM

ETUME (IF/IAF)

TO

SURUE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.50										
<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>
TOWER (51-000975)	364116.00N/0770058.48W	524	500	50	5D	500				AT676	1700
TERRAIN	364215.00N/0770754.00W	138 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

SURUE

TO

ZIGTU/2.50 NM TO RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.61										
<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>
TOWER (51-002427)	364101.26N/0765954.78W	449	500	50	5D	250				RA38 AC50 DG73	860

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

ZIGTU/2.50 NM TO RW09

TO

RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	2.50		RW09	545	

<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>
TOWER (51-000272)	364125.00N/0765643.00W	274	500	50	5D	250				AC50	580

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

ETUME

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
		P-5			

<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>
TOWER (51-001202)	364218.69N/0771330.32W	403	20	3	1A	1000				AT1197	2600
TERRAIN	364345.00N/0770754.00W	138 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW09

TO

JADIM

RNP

0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS

480

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
TOWER (51-000959)	364406.20N/0763906.20W	568	50	20	2C	1000					1600
TERRAIN	364500.00N/0764621.00W	89 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MSA

CENTER

RW09

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (51-001802)	364831.78N/0763011.30W	080	20.7	1282	20	3	1A	1000			2300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ORF APP CON, ZDC ARTCC, LEESBURG FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3PT	FKN	24	FKN	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	SFQ	24	SFQ	14.59	Y	38

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KFKN 40, KSFQ 70
RA = 37.79.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>	
RW09 - MIRL (PCL), PAPI-2L	NPI-F		
RW27 - MIRL (PCL), PAPI-2L	NPI-F		

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
					3.00	40.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV
20:1	
51 TREE (KFKNT0175) 364158.79N/0765444.93W (1.19)	43 TREE (KFKNT0161) 364157.77N/0765442.92W (0.46)
42 TREE (KFKNT0159) 364154.90N/0765442.18W (0.16)	
FINAL TYPE	LNAV
34:1	
102 TREE (KFKNT0336) 364154.75N/0765503.68W (12.99)	99 TREE (KFKNT0343) 364152.85N/0765503.71W (9.04)



<u>AIRPORT ID</u> FKN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>AMDT NO.</u> 1D	<u>CITY</u> FRANKLIN	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 40	<u>FACILITY</u> RNAV
94 TREE (KFKNT0322) 364150.65N/0765501.37W (8.54)			93 TREE (KFKNT0320) 364153.89N/0765501.86W (7.90)			
91 TREE (KFKNT0315) 364154.40N/0765501.71W (6.49)			48 TREE (KFKNT0171) 364158.61N/0765444.66W (5.79)			
45 TREE (KFKNT0168) 364158.28N/0765443.85W (4.55)			94 TREE (KFKNT0340) 364151.92N/0765503.37W (4.41)			
90 TREE (KFKNT0325) 364150.65N/0765501.45W (4.35)			42 TREE (KFKNT0166) 364154.36N/0765442.55W (2.80)			
40 TREE (KFKNT0160) 364154.49N/0765442.23W (1.61)			87 TREE (KFKNT0323) 364150.86N/0765501.45W (1.45)			
40 TREE (KFKNT0164) 364156.60N/0765442.83W (1.18)			40 TREE (KFKNT0165) 364156.95N/0765443.05W (0.82)			
84 TREE (KFKNT0305) 364156.69N/0765501.68W (0.63)			40 TREE (KFKNT0167) 364158.41N/0765443.43W (0.61)			
119 TREE (KFKNT0471) 364149.25N/0765515.09W (0.43)			39 TREE (KFKNT0163) 364155.23N/0765442.49W (0.34)			
98 TREE (KFKNT0383) 364151.94N/0765506.90W (0.06)			94 TREE (KFKNT0368) 364157.45N/0765506.30W (0.06)			
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION USED PER FPT.

FOR CONTINGENCY PURPOSE:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SUFFOLK ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET AND LNAV VISIBILITY CATS C AND D 1/8 SM.

LPV & LNAV/VNAV MINIMUMS NOT DEVELOPED DUE TO VGS PENETRATIONS.

TAA NOT DEVELOPED PER ATC REQUEST.

VDP NOT PUBLISHED - 20:1 PENETRATIONS.

ORDER 8260.3 CHAPTER 2 APPLIED TO 524 TOWER (51-000975) 364116.00N/0770058.48W.



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	3.23
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	080.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.91
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.38
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	080.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN)	364157.20N/0765437.87W
ARP COORDINATES	364201.07N/0765407.69W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 9 DISTANCE 0.41 NM
FAF COORDINATES	364108.85N/0770054.34W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (ROBERT A. SWINSON)	AJV-A432	12/14/2023	AERONAUTICAL INFORMATION SPECIALIST

