

**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> MFV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MELFA	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 48	<u>TDZE</u> 48	<u>SUPERSEDED</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 12/06/2018
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 11W
				<u>EPOCH YEAR</u> 2000
				<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>
OUTLA		ZIXER		TF	FO	1.00	039.89	32.40	2000
ZIXER	IF/IAF	RESE		TF	FB	1.00	214.05	6.04	1600
RESE	FAF	RW21	MAP	TF	FO	0.30	214.01	4.75	
RW21	MAP	448 MSL		CA			214.01		
448 MSL		UCGEL		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LNAV: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT UCGEL AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- HOLD NE ZIXER, RT, 214.05 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC:** 214.01 **FAF:** RESE **DIST FAF TO MAP:** 4.75 **DIST FAF TO THLD:** 4.75
- MIN ALT:** ZIXER 2000, RESE 1600
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:**
- MIN GP INCPT:** **GP ALT AT FAF:** **OM:** **MM:** **IM:**
- GP ANGLE:** **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:**
- MSA FROM:** RW21 1800



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OUTLA ON T303 SOUTH BOUND AND T307 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 033.93 INBOUND.
CHART FAS OBST: 244 TOWER (51-073425) 374227N/0754414W.
CHART R-4006, R-6604A, R6604E, R-6609.
CHART W-386.
CHART VDP AT 1.29 NM TO RW21.
RERSE TO RW21: 3.00/40.
CHART CIRCLING ICON.

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	500	1	452	500	1	452	500	1 3/8	452	500	1 3/8	452				
CIRCLING	500	1	452	560	1	512	700	1 3/4	652	700	2	652				

CHANGES - REASONS

1. REMOVED FEEDERS SWL VORTAC – PACIV AND CCV VORTAC – ZIXER. – SWL VORTAC AND CCV VORTAC DECOMMISSIONING.
2. ADDED FEEDER FROM OUTLA – ZIXER. – PER FPT REQUEST.
3. REMOVED INITIAL FROM PACIV - ZIXER. - PER ATC/FPT REQUEST.
4. UPDATED INTERMEDIATE ZIXER – RERSE COURSE/DISTANCE FROM 214.04/6.10 TO 214.05/6.04. – FAF RERSE MOVED TO ACCOMMODATE GPA/TCH 3.00/40.0.
5. UPDATED FINAL RERSE – RW21 DISTANCE FROM 4.69 TO 4.75. - FAF RERSE MOVED TO ACCOMMODATE GPA/TCH 3.00/40.0.
6. LINE 2: UPDATED HOLD-IN-LIEU COURSE FROM 214.04 TO 214.05. – UPDATED TO MATCH INTERMEDIATE INBOUND COURSE.
7. LINE 3: UPDATED DIST FAF TO MAP/THLD FROM 4.69 TO 4.75. - FAF RERSE MOVED TO ACCOMMODATE GPA/TCH 3.00/40.0.
8. LINE 7: ADDED 20:1 IS CLEAR. – NO 20:1 PENETRATIONS FOUND.
9. UPDATED PBN REQUIREMENTS NOTE: FROM RNP APCH TO RNP APCH - GPS. - IAW 8260.58C TABLE 1-2-1.
10. REMOVED CHART NOTE: PROCEDURE NA FOR ARRIVAL ON CCV VORTAC AIRWAY RAIDALS 323 CW 041. – FEEDER FROM CCV VORTAC REMOVED.
11. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OUTLA ON T303 SOUTH BOUND AND T307 SOUTHWEST BOUND. – FEEDER ADDED FROM FIX OUTLA; IAW 8260.19J 8-2-5 E.
12. UPDATED ADDITIONAL FLIGHT DATA: FROM “FAS OBST: 244 AAO 374200N/0754316W” TO “CHART FAS OBST: 244 TOWER (51-073425) 374227N/0754414W.” – NEW LNAV CONTROLLING OBSTACLE.
13. UPDATED ADDITIONAL FLIGHT DATA” CHART VDP FROM 1.28 NM TO 1.29 NM TO RW21. – UPDATED EVALUATION COMPLETED.
14. UPDATED ADDITIONAL FLIGHT DATA: RERSE TO RW21: FROM “3.04/40” TO “3.00/40.” – GPA UPDATED TO MATCH VGSI ANGLE.
15. UPDATED ALTERNATE MINIMUMS FROM STANDARD TO STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE. - IAW 8260.19J 8-6-12 B.



AIRPORT ID
MFV

PROCEDURE NAME
RNAV (GPS) RWY 21

ORIGINAL/AMENDMENT
2

CITY
MELFA

STATE
VA

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZDC, NHK APP CON, PCT APP CON, ORF APP CON, AMGR, VA DOT

FLIGHT CHECKED BY

JEFFREY A FINDLEY

CASIMIR L TABAKA

Nov 01, 2024

OFFICE

AJF

DATE

10/29/2024

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

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CASIMIR L TABAKA

Nov 01, 2024

OFFICE

AJV-A432

DATE

07/08/2024

APPROVED BY

CASIMIR L. TABAKA

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CASIMIR L TABAKA

Nov 01, 2024

OFFICE

AJV-A430

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> MFV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>AMDT NO.</u> 2	<u>CITY</u> MELFA	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 48	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> OUTLA	<u>TO</u> ZIXER
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<u>RNP</u> 1.00	<u>DISTANCE</u> 32.40	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (51-001042)	373327.01N/0754944.67W	434	50	20	2C	1000				AT566	2000
TERRAIN	373845.00N/0754733.00W	101 (100)								AS1500	1600

COMPUTATIONS

<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>
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SEGMENT REMARKS:

INTERMEDIATE

<u>FROM</u> ZIXER (IF/IAF)	<u>TO</u> RERSE
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<u>RNP</u> 1.00	<u>DISTANCE</u> 6.04	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	374418.00N/0754036.00W	250	215	8	4B	500				AT850	1600
TERRAIN	374418.00N/0754036.00W	49 (0)								AS1500	1500

COMPUTATIONS

<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>
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SEGMENT REMARKS:



AIRPORT ID
MFV

PROCEDURE NAME
RNAV (GPS) RWY 21

AMDT NO.
2

CITY
MELFA

STATE
VA

AIRPORT ELEVATION
48

FACILITY
RNAV

FINAL: LNAV

FROM
RERSE

TO
RW21

RNP
0.30

DISTANCE
4.75

PAT

MAP
RW21

HAT
452

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (51-073425)	374227.22N/0754414.33W	244	50	20	2C	250					500

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
ZIXER

TO
P-4

RNP

DISTANCE

PAT
P-4

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	374715.00N/0753733.00W	263	215	8	4B	1000				AT737	2000
TERRAIN	374715.00N/0753733.00W	62 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
MFV

PROCEDURE NAME
RNAV (GPS) RWY 21

AMDT NO.
2

CITY
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STATE
VA

AIRPORT ELEVATION
48

FACILITY
RNAV

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT DEVELOPED PER FPT AND AIR TRAFFIC.

100 FT VEGETATION UTILIZED PER FPT.

PER FPT: LNAV MINIMUMS ONLY; LPV AND LNAV/VNAV MINIMUMS REMOVED DUE TO GQS PENETRATIONS. RNAV (GPS) RWY 21, ORIG LPV/ LNAV/VNAV LINES OF MINIMA AND RWY 21 NIGHT LANDING WERE NA'D PER VA DOT DUE TO PENETRATIONS (FDC 7/2240). THOUGH VA DOT AND AIRPORT ARE WORKING TO REMOVE OBSTACLES, PENETRATIONS STILL EXIST AT THE TIME OF PROCEDURE DEVELOPMENT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZDC ARTCC, NHK APP CON, LEESBURG FSS, ORF APP CON, PCT APP CON

WX SERVICE
AWOS-3

LOCATION
MFV

HRS OPERATION
24

ALTIMETER SOURCE
MFV

DISTANCE
0

SERVICE-A
Y

ADJUSTMENTS
0

BACK-UP WX SERVICE
ASOS

LOCATION
WAL

HRS OPERATION
24

ALTIMETER SOURCE
WAL

DISTANCE
22.48

SERVICE-A
Y

ADJUSTMENTS
53

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KMFV 48.0, KWAL 40.0
RA = 52.8.

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW03 - MIRL (PCL), REIL (PCL), PAPI-2L	NPI-G	
RW21 - REIL (PCL), MIRL (PCL), PAPI-2L	NPI-G	

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

TCH

3.00

40.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV
34:1	
129 TREE (51-062435) 373928.19N/0754515.11W (30.07)	120 TREE (51-062363) 373928.16N/0754522.49W (27.97)



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123 TREE (51-062513) 373929.73N/0754520.74W (25.05)	119 TREE (51-062510) 373928.25N/0754516.75W (21.42)
93 TREE (51-062407) 373920.72N/0754519.43W (18.52)	119 TREE (51-051223) 373931.89N/0754520.79W (15.18)
106 TREE (51-062457) 373927.18N/0754517.70W (12.23)	104 TREE (51-043815) 373926.32N/0754516.54W (11.51)
115 TREE (51-062573) 373933.63N/0754520.31W (5.97)	81 TREE (51-062271) 373921.62N/0754519.52W (4.14)

PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

CONTINGENCY NOTES:

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND CIRCLING VISIBILITY CAT C AND D 1/4 SM. VDP NA WHEN USING WAL ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	203.01
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.75
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	203.01
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN)

373911.52N/0754527.63W

ARP COORDINATES

373848.76N/0754539.76W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 21 DISTANCE 0.41 NM

FAF COORDINATES

374334.14N/0754307.38W

FIX NAME COORDINATES

REMARKS



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PROCEDURE NAME
RNAV (GPS) RWY 21

AMDT NO.
2

CITY
MELFA

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VA

AIRPORT ELEVATION
48

FACILITY
RNAV

PART E: PREPARED BY

NAME

CASIMIR L. TABAKA (BARBARA GORMAN)

OFFICE

AJV-A432

DATE

07/08/2024

TITLE

AERONAUTICAL INFORMATION SPECIALIST

