#### 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.

**ORIGINAL/AMENDMENT** PROCEDURE NAME **CITY STATE AIRPORT ID** RNAV (GPS) RWY 32 **MANSFIELD** MA 1 1B9 **AIRPORT ELEVATION TDZE SUPERSEDED ORIGINAL/AMENDMENT DATED MAG VAR EPOCH YEAR** RNAV (GPS) RWY 32 123 121 ORIG-B 10/16/2014 16W 1995 REQUIRED EFFECTIVE DATE **FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE** CANCEL/SUSPEND

1 DECEMBER 2022

ROUTINE

#### **TERMINAL ROUTES**

**RNAV** 

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FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
AVONN		REPOY		TF	FB	1.00	050.76	13.67	3000
WOONS		RAYNM		TF	FO	1.00	114.02	24.15	3000
DUNKK	IAF	RAYNM	NOPT	TF	FB	1.00	247.53	18.14	3000
REPOY	IAF	RAYNM	NOPT	TF	FB	1.00	048.71	5.00	3000
SAVLE	IAF	RAYNM	NOPT	TF	FB	1.00	228.81	5.00	3000
RAYNM	IF/IAF	EASTN		TF	FB	1.00	318.75	7.33	2000
EASTN	FAF	GEONS/1.00 NM TO RW32		TF	FB	0.30	318.64	3.29	
GEONS/1.00 NM TO RW32		RW32	MAP	TF	FO	0.30	318.64	1.00	
RW32	MAP	700 MSL		CA			318.64		700
700 MSL		WHYBE		DF	FO	1.00			3000

#### MISSED APPROACH

MAP: LPV: DA LNAV: RW32

#### MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 3000 DIRECT WHYBE AND HOLD.

#### **ALTERNATE MISSED APPROACH INSTRUCTIONS:**

AIRPORT ID

1B9

PROCEDURE NAME

RNAV (GPS) RWY 32

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD SE RAYNM, RT, 318.76 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

**3. FAC:** 318.64 **FAF:** EASTN **DIST FAF TO MAP:** 4.30 **DIST FAF TO THLD:** 4.30

**4. MIN ALT:** RAYNM 3000, EASTN 2000, GEONS/1.00 NM TO RW32 600

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 331 HAT: 0.65 GS ANT:

**6. MIN GP INCPT:** 2000 **GP ALT AT PFAF**: EASTN 2000 **OM**: **MM**: **IM**:

**7. GP ANGLE**: 4.00 **34:1**: IS NOT CLEAR **20:1**: IS NOT CLEAR **TCH**: 55.0

**8. MSA FROM:** RW32 2600

#### **PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

### NOTES:

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOONS ON V3-16 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AVONN ON V146 NORTHWEST BOUND.

CHART NOTE: USE TAUNTON ALTIMETER SETTING.

#### **ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.

CHART TAUNTON MUNI - KING FLD ASOS-3.

HOLD E, RT, 268.04 INBOUND.

CHART FAS OBST: 228 TREE (25-046572) 420012N/0711127W.

WAAS CHANNEL # 97644 REFERENCE PATH ID: W32A

LTP HAE: 7.6 M

#### **MINIMUMS:**

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

ALTERNATE: NA



CATEGORY:		Α			В			С			D			E	
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA	<u>DA/MDA</u>	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA
LPV DA	452	1	331	452	1	331		NA			NA				
LNAV MDA	520	1	399	520	1	399		NA			NA				
CIRCLING	600	1	477	640	1	517		NA			NA				ONALITY.

AIRPORT ID

1B9

PROCEDURE NAME
RNAV (GPS) RWY 32

ORIGINAL/AMENDMENT
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MANSFIELD

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MANSFIELD

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#### **CHANGES - REASONS**

- 1. AIRPORT ELEVATION CHANGED FROM 122 TO 123 PER LATEST AIRNAV DATA INCLUDING RECENT AIRPORT SURVEY.
- 2. ADDED PBN REQUIREMENTS NOTE PER 8260.19I PARA. 8-6-8B(2).

AOPA 🔯

- 3. REMOVED NOTE 'DME/DME RNP-0.3 NA' LEGACY NOTE, REPLACED BY PBN REQUIREMENTS NOTE.
- 4. CHANGED NOTE 'HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA' TO 'RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED' PER 8260.19I PARA. 8-6-11K(3).
- 5. ADDED '20:1 IS NOT CLEAR' TO FORM PER 8260.19I PARA. 8-6-7G(3)(A).
- 6. ADDED INITIAL SEGMENT FROM SAVLE TO RAYNM ATC REQUESTED FOR INCREASED FLEXIBILITY.
- 7. ADDED LPV FINAL SEGMENT TO PROCEDURE AIRPORT OFFICIALS REQUESTED TO ADD VERTICAL GUIDANCE ON FINAL.
- 8. LENGTHENED RAYNM TO EASTN INTERMEDIATE SEGMENT FROM 6.00 TO 7.33 EASTN MOVED 1.33 NM NORTHWEST FROM 415649.84N/0710509.41W TO 415733.06N/0710639.56W BASED ON LPV GLIDEPATH ANGLE, TCH, AND PFAF ALTITUDE.
- 9. ADDED STEPDOWN FIX GEONS AT 1.00 NM TO RW32 LNAV FINAL PROVIDED 80 FT REDUCTION IN MDA/HAT.
- 10. ADDED LPV LINE OF MINIMUMS AND ASSOCIATED DATA REQUESTED BY AIRPORT OFFICIALS/FPT.
- 11. LOWERED LNAV MDA/HAT FROM 600/479 TO 520/399 END RESULT FROM ADDING STEPDOWN FIX.
- 12. LOWERED CIRCLING CAT A MDA/HAA FROM 640/518 TO 600/477 NEW CONTROLLING OBSTRUCTION AND FULL AMENDMENT ALLOWED FOR LOWERING.
- 13. CIRCLING CAT B HAT CHANGED FROM 518 TO 517 DUE TO 1 FT AIRPORT ELEVATION CHANGE FROM 122 TO 123 SINCE LAST AMENDMENT.
- 14. CA LEG ALTITUDE CHANGED FROM 522 MSL TO 700 MSL AND PUBLISHED IN THE MISSED APPROACH INSTRUCTIONS NEW EVALUATION AND IAW 8260. 58B, PARA 3-5-2.
- 15. ADDED MAX HOLD-IN-LIEU ALTITUDE OF 6000 TO PROFILE LINE 2 PER 8260.19I, PARA 8-6-7B(2).

APA 🗍

- 16. CHANGED DIST FAF TO MAP AND FAF TO THLD FROM 5.63 TO 4.30 PFAF MOVED 1.33 NM CLOSER TO RUNWAY.
- 17. ADDED DISTANCE TO 331 HAT: 0.65 TO PROFILE LINE 5 ADDED LPV FINAL SEGMENT TO PROCEDURE.
- 18. REMOVED CHART 319 TREES 415621N/0710554W NEW EVALUATION.
  19. ADDED CHART NOTE: CIRCLING NA TO RWYS 4 AND 22 PER SOP UNPAVED RUNWAYS, REV 2.0 PROCESS 3.2.

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20. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AVONN ON V146 NORTHWEST BOUND - TURN AT AVONN EXCEEDS 90 DEGREES PER 8260.58B PARA. 1-2-5A(3) AND 8260.19I PARA. 8-2-5E(2).

OTHER: ZBW, BOS APP CON, BDR FSS, ARPT MGR

21. REMOVED VDA/TCH EASTN TO RW32: 3.08/40 FROM ADDITIONAL FLIGHT DATA - ADDED LPV FINAL AND PER 8260.19I PARA. 8-6-10O(1).

NBAA 🔀

# COORDINATED WITH:

		<u></u>		
	Digitally signed by			
FLIGHT CHECKED BY	RAKE MCGRAW	<u>OFFICE</u>	<u>DATE</u>	
JAMES D ARNOLD	Oct 20, 2022	FPO	09/23/2022	
	Digitally signed by			
DEVELOPED BY	RAKE MCGRAW	OFFICE	<u>DATE</u>	
RALPH DUMAR	Oct 20. 2022	AJV-A423	05/06/2022	
APPROVED BY	Digitally signed by	OFFICE	<u>DATE</u>	TITLE
MARLON ROBINSON	RAKE MCGRAW	AJV-A420	10/20/2022	MANAGER
	Oct 20, 2022		10/20/2022	

**AIRPORT ID** PROCEDURE NAME ORIGINAL/AMENDMENT <u>CITY</u> 1B9 RNAV (GPS) RWY 32 **MANSFIELD FAS DATA BLOCK INFORMATION DATA DATA FIELD OPERATION TYPE** 0 SBAS SERVICE PROVIDER IDENTIFIER 0 AIRPORT IDENTIFIER 1B9 **RUNWAY** RW32 APPROACH PERFORMANCE DESIGNATOR 0 **ROUTE INDICATOR** REFERENCE PATH DATA SELECTOR 0 REFERENCE PATH IDENTIFIER (APPROACH ID) W32A LTP/FTP LATITUDE 415952.0520N LTP/FTP LONGITUDE 0711130.6995W LTP/FTP ELLIPSOIDAL HEIGHT +00076 FPAP LATITUDE 420040.0430N **FPAP LONGITUDE** 0711311.4095W THRESHOLD CROSSING HEIGHT (TCH) 00055.0 F TCH UNITS SELECTOR (METERS OR FEET USED)

04.00

106.75

1752

40.0

50.0

BFF2D159

#### ADDITIONAL PATH POINT RECORD INFORMATION

**GLIDEPATH ANGLE (GPA)** 

**LENGTH OFFSET** 

**CRC REMAINDER** 

**COURSE WIDTH AT THRESHOLD** 

HORIZONTAL ALERT LIMIT (HAL)

**VERTICAL ALERT LIMIT (VAL)** 

ICAO CODE K6
LTP ORTHOMETRIC HEIGHT +00364
FPAP ORTHOMETRIC HEIGHT +00364

**STATE** 

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