

**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> KNQA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> MILLINGTON	<u>STATE</u> TN		
<u>AIRPORT ELEVATION</u> 322	<u>TDZE</u> 322	<u>SUPERSEDED</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 14 JULY 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZIVNY		RYBRN		TF	FO	1.00	071.37	23.27	2500
MIOLA	IAF	RYBRN	NOPT	TF	FB	1.00	276.27	15.98	2500
RYBRN	IF/IAF	PIRGE		TF	FB	1.00	218.98	6.01	2000
PIRGE	FAF	NEUME/2.10 NM TO RW22		TF	FB	0.30	218.94	2.99	
NEUME/2.10 NM TO RW22		RW22	MAP	TF	FO	0.30	218.94	2.10	
RW22	MAP	840 MSL		CA			218.94		840
840 MSL		ZIVNY		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 840 THEN CLIMBING RIGHT TURN TO 2500 DIRECT ZIVNY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



CHANGES - REASONS

1. AIRPORT ELEVATION AND RWY 22 TDZE UPDATED FROM 319 TO 322. - NEW AIRNAV DATA USED.
2. INCORPORATED P-NOTAM AMDT 2A IAW 8260.191 8-3-4 C.3.
3. LPV DA UPDATED FROM 519 TO 522. - RWY 22 TDZE UPDATED.
4. LNAV/VNAV DA/HAT UPDATED FROM 786/467 TP 784/462. - RWY 22 TDZE UPDATED.
5. LNAV MDA/HAT DECREASED FROM 840/521 TO 780/458; CAT A/B VISIBILITY DECREASED FROM 3/4 TO 1/2, CAT C/D/E VISIBILITY DECREASED FROM 1 TO 7/8. - RWY 22 TDZE UPDATED; LNAV STEPDOWN ADDED.
6. CIRCLING MDA/HAA CAT A FROM 840/521 TO 800/478; CAT B FROM 840/521 TO 820/498; CAT C HAA FROM 601 TO 598; AND CAT D/E HAA FROM 641 TO 638. CIRCLING CAT C VISIBILITY DECREASED FROM 1 3/4 TO 1 1/2. - NON-PRECISION MINIMA DECREASED; AIRPORT ELEVATION UPDATED; VISIBILITY UPDATED IAW 8260.3D TABLE 3-3-7.
7. TERMINAL ROUTES: CHANGED RNP VALUE FROM ZIVNY TO RYBRN FROM 2.00 TO 1.00. - IAW .58B, PARA 3-1-2
8. TERMINAL ROUTES: REMOVED FEEDER FROM BOROW TO RYBRN - GQE VOR/DME DECOMMISSIONING; V11, V47 CANCELLATION.
9. TERMINAL ROUTES: REMOVED INITIAL SEGMENT FROM DYERSBURG VORTAC TO RYBRN AND ASSOCIATED NOTE. - DYR DECOMMISSIONING.
10. TERMINAL ROUTES: UPDATED DISTANCE RYBRN TO PIRGE FROM 6.00 TO 6.01. - RWY 22 TDZE UPDATED, FAF MOVED TO PROVIDE OPTIMUM DESCENT ANGLE.
11. ADDED LNAV STEPDOWN FIX NEUME. - TO MATCH ILS OR LOC RWY 22.
12. PROFILE LINE 3: UPDATED DIST FAF TO MAP/THLD FROM 5.10 TO 5.09. - FAF MOVED TO PROVIDE OPTIMUM DESCENT ANGLE.
13. PROFILE LINE 4: ADDED MIN ALT NEUME/2.10 NM TO RW22 1040. - LNAV STEPDOWN ADDED.
14. PROFILE LINE 5: ADDED DIST TO THLD FROM FAF: 5.09. - IAW 8260.191 8-6-7 E.
15. CHANGED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH-GPS. - IAW .191 8-6-8(B)2.
16. UPDATED CHART NOTE: FROM "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM, AND LNAV CAT A/B VISIBILITY TO 1 SM AND CAT E VISIBILITY TO 1 1/2 SM" TO "FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO 3/4 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 SM, AND LNAV CAT E VISIBILITY TO 1 3/8 SM." REMOVED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV. - IAW WITH INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE.
17. UPDATED ADDITIONAL FLIGHT DATA: FROM "CHART VDP AT 1.40 NM TO RW22*" TO "CHART VDP AT 1.221 NM TO RW22"; *LNAV ONLY REMOVED. - NEW AIRNAV DATA INCORPORATED; NOTES UPDATED IAW 8260.191 8-6-10M.
18. UPDATED ADDITIONAL FLIGHT DATA: FAS OBST FROM 590 AAO 352454N/0894923W TO CHART FAS OBST: 564 TOWER (47-023584) 352354N/0895047W. - LNAV STEPDOWN ADDED.
19. UPDATED ADDITIONAL FLIGHT DATA: FROM 630 AAO 352635N/0894827W TO FAS OBST: 620 AAO 352539N/0894740W. - FAF MOVED; NEW 7:1 OBSTACLE.
20. UPDATED ADDITIONAL FLIGHT DATA: LTP HAE FROM 70.1 TO 70.9. - NEW AIRNAV DATA INCORPORATED.
21. ALTERNATE MINIMUMS - ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE." - IAW 8260.191 8-6-11 B(4).
22. FAS DATA: LTP/FTP LATITUDE/LONGITUDE UPDATED FROM 352154.7000N/0895143.2200W TO 352154.6870N/0895143.2215W. - NEW AIRNAV DATA INCORPORATED.
23. FAS DATA: LTP/FTP ELLIPSOIDAL HEIGHT UPDATED FROM 00701 TO 00709. - NEW LTP/FTP LATITUDE/LONGITUDE.
24. FAS DATA: FPAP LATITUDE/LONGITUDE UPDATED FROM 352045.2300N/0895251.6100W TO 352045.2350N/0895251.6115W. - NEW FPAP LOCATION.
25. FAS DATA: LTP AND FPAP ORTHOMETRIC HEIGHT UPDATED FROM 00973 TO 00983. - LTP/FTP LATITUDE/LONGITUDE UPDATED.
26. FAS DATA: CRC REMAINDER UPDATED FROM D8936600 TO 888B4EE0. - LTP/FTP LATITUDE/LONGITUDE AND FPAP ELLIPSOIDAL HEIGHT UPDATED.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZME, MEM APP CON, AMGR, NQA ATCT

FLIGHT CHECKED BY

GEORGE E SEARLES

Digitally signed by

CASIMIR L TABAKA

May 17, 2022

OFFICE

FPO

DATE

03/03/2022

DEVELOPED BY

LONNIE EVERHART (BARBARA GORMAN)

Digitally signed by

CASIMIR L TABAKA

May 17, 2022

OFFICE

AJV-A432

DATE

05/12/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

CASIMIR L TABAKA

May 17, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KNQA
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	352154.6870N
LTP/FTP LONGITUDE	0895143.2215W
LTP/FTP ELLIPSOIDAL HEIGHT	+00709
FPAP LATITUDE	352045.2350N
FPAP LONGITUDE	0895251.6215W
THRESHOLD CROSSING HEIGHT (TCH)	00055.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	888B4EE0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00983
FPAP ORTHOMETRIC HEIGHT	+00983

