

**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><b>AIRPORT ID</b></u> KMEM	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) Z RWY 18L	<u><b>ORIGINAL/AMENDMENT</b></u> 2E	<u><b>CITY</b></u> MEMPHIS	<u><b>STATE</b></u> TN		
<u><b>AIRPORT ELEVATION</b></u> 341	<u><b>TDZE</b></u> 301	<u><b>SUPERSEDED</b></u> RNAV (GPS) Z RWY 18L	<u><b>ORIGINAL/AMENDMENT</b></u> 2D	<u><b>DATED</b></u> 03/29/2018	<u><b>MAG VAR</b></u> 1W	<u><b>EPOCH YEAR</b></u> 2020
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 7 OCTOBER 2021	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
ZOKOR	IAF	REISE	NOPT	TF	FB	1.00	089.91	7.67	4400
TUNIE	IAF	REISE	NOPT	TF	FB	1.00	270.07	6.89	4400
REISE	IF/IAF	RONEE		TF	FB	1.00	180.00	7.68	2000
RONEE	FAF	RW18L	MAP	TF	FO	0.30	180.00	5.15	
RW18L	MAP	900 MSL		CA	FB		180.00		900
900 MSL		KEEZE		DF	FO	1.00			5000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW18L

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 900 THEN CLIMBING LEFT TURN TO 5000 DIRECT KEEZE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N REISE, LT, 180.00 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 180.00FAF: RONEEDIST FAF TO MAP: 5.15DIST FAF TO THLD: 5.15

4. MIN ALT: REISE 4400, RONEE 2000

5. DIST TO THLD FROM OM:MM:IM:150 HAT:256 HAT: 0.69GS ANT:

6. MIN GP INCPT: 2000GP ALT AT FAF : RONEE 2000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 60.0

8. MSA FROM: RW18L 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.  
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 5/8 SM AND LNAV CAT C/D VISIBILITY TO 1 5/8 SM.

ADDITIONAL FLIGHT DATA:

CHART LOC RWY 18R  
HOLD SE, RT, 333.00 INBOUND.  
CHART FAS OBST: 621 CONTROL\_TOWER (47-020204) 350259N/0895854W.  
CHART VDP AT 1.65 NM TO RW18L.  
WAAS CHANNEL # 53307  
REFERENCE PATH ID: W18B  
CHART CIRCLING ICON.  
LTP HAE: 57.2 M

MINIMUMS:

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

ALTERNATE: NA

☐

STANDARD - CAT D 800-2 1/4

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
LPV DA	557	1800	256	557	1800	256	557	1800	256	557	1800	256			
LNAV/VNAV DA	874	1 1/4	573	874	1 1/4	573	874	1 1/4	573	874	1 1/4	573			
LNAV MDA	880	2400	579	880	2400	579	880	1 1/4	579	880	1 1/4	579			
CIRCLING	940	1	599	940	1	599	940	1 5/8	599	1020	2 1/4	679			



**CHANGES - REASONS**

1. REMOVED GILMORE (GQE) VORTAC TO ZOKOR FIX FEEDER, MIOLA FIX TO TUNIE FIX FEEDER AND MEMPHIS (MEM) VORTAC TO REISE FIX FEEDER - VORMON DECOMMISSIONING OF GQE AND MEM.
2. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GQE VOR/DME AIRWAY RADIALS 050 CW 188. - GQE DECOMMISSIONING.
3. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH - GPS" TO PBN REQUIREMENTS NOTE - IAW 8260.19I PARA 8-6-8.B (2).
4. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - IAW 8260.19I PARA 8-6-7.G (3).
5. AMENDED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C (5°F) OR ABOVE 48°C (118°F) TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C" - FAHRENHEIT TEMPS REMOVED AND NEW ISA30 STANDARD USED IAW 8260.19I PARA 8-6-9.R.
6. ADDED "MAX 6000" TO PROFILE LINE 2 - IAW 8260.19I PARA 8-6-7.B (2).
7. ADDED ADDITIONAL FLIGHT DATA OBSTACLE ID TO FAS OBSTACLES - IAW 8260.19I AND MEMO 276 ATTACHMENT 4.
8. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM CHART VDP AT 1.66 NM TO RW18L\* TO CHART VDP AT 1.65 NM TO RW18L, REMOVED "\*\*LNAV ONLY" - NEW EVALUATION, ASTERISK COMMENT NO LONGER REQUIRED.
9. REDUCED LNAV/VNAV ALL CATS VISIBILITY FROM 1 1/2 SM TO 1 1/4 SM - CONFORM TO NEW VISIBILITY TABLE.
10. INCREASED LNAV CAT C VISIBILITY FROM 5000 RVR TO 1 1/4 SM, CAT D FROM 6000 RVR TO 1 1/4 SM - CONFORM TO NEW VISIBILITY TABLE.
11. INCREASED CIRCLING CAT C VISIBILITY FROM 1 1/2 SM TO 1 5/8 SM - CONFORM TO NEW VISIBILITY TABLE.
12. FAS DATA BLOCK INFORMATION CHANGES: LTP/FTP LAT/LONG CHANGED FROM 350255.7385N/0895822.6250W TO 350255.7400N/0895822.6225W, FPAP LAT/LONG CHANGED FROM 350126.5090N/0895820.7305W TO 350126.5100N/0895820.7495W, AND RESULTANT CRC REMAINDER CODE CHANGED FROM 935B60A2 TO 08F8A219.
13. CHANGED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 5000" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 5/8 SM AND LNAV CAT C/D VISIBILITY TO 1 5/8 SM" - NEW VISIBILITY EVALUATION.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZME, MEM ATCT, KMEM AMGR, MEM APP/CON.

**FLIGHT CHECKED BY**

PAUL A GOSDEN

*Digitally signed by*  
**LONNIE EVERHART**  
Jul 13, 2021

**OFFICE**

FICO

**DATE**

07/08/2021

**DEVELOPED BY**

DAVID TEFFETELLER (GORDON LEMON)

*Digitally signed by*  
**LONNIE EVERHART**  
Jul 13, 2021

**OFFICE**

AJV-A432

**DATE**

04/29/2021

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*  
**LONNIE EVERHART**  
Jul 13, 2021

**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	KMEM
RUNWAY	RW18L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18B
LTP/FTP LATITUDE	350255.7400N
LTP/FTP LONGITUDE	0895822.6225W
LTP/FTP ELLIPSOIDAL HEIGHT	+00572
FPAP LATITUDE	350126.5100N
FPAP LONGITUDE	0895820.7495W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	08F8A219

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00846
FPAP ORTHOMETRIC HEIGHT	+00846

