

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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.

AIRPORT ID MIA	PROCEDURE NAME RNAV (RNP) Y RWY 12	ORIGINAL/AMENDMENT ORIG-C	CITY MIAMI	STATE FL
AIRPORT ELEVATION 9	TDZE 9	SUPERSEDED RNAV (RNP) Y RWY 12	DATED 06/30/2011	MAG VAR 5W
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2000
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
FOGSO		GLRIA		TF	FB	1.00	035.51	20.36	3000
WORPP		GLRIA		TF	FB	1.00	090.50	23.25	3000
GLRIA	IF	PIANA		TF	FB	1.00	124.35	6.00	3000
PIANA		VEPCO		TF	FB	1.00	124.35	3.14	2000
VEPCO	PFAF	RW12	MAP	TF	FO	0.30	124.42	5.98	
RW12	MAP	409 MSL		CA			124.42		
409 MSL		VAYQO		DF	FB	1.00			
VAYQO		VKZ VOR/DME		TF	FO	1.00	109.11	5.56	3000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT VAYQO AND ON TRACK 109.11 TO VKZ VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT GLRIA
- FAC: 124.42 FAF: VEPCO DIST FAF TO MAP: DIST FAF TO THLD:
- MIN ALT: GLRIA 3000, PIANA 3000, VEPCO 2000
- DIST TO THLD FROM PFAF: 5.98 MM: IM: 150 HAT: 453 HAT: 1.23 GS ANT:
- MIN GP INCPT: 2000 GP ALT AT PFAF: VEPCO 2000 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 55.8
- MSA FROM: RW12 2900



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.
AUTHORIZATION REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 9°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FOGSO ON V157 WESTBOUND.
CHART SPEED ICON IN PLANVIEW AT FOGSO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 300.00 INBOUND.
CHART MANDATORY 3000 AT GLRIA.

MINIMUMS:

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

ALTERNATE: NA STANDARD

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
AUTHORIZATION REQUIRED																
RNP 0.30 DA	462	5000	453	462	5000	453	462	5000	453	462	5000	453				

CHANGES - REASONS

1. UPDATED AIRPORT ELEVATION FROM "8" TO "9" AND TDZE FROM "8" TO "9" - NEW AIRNAV DATA/AIRPORT SURVEY 2018.
2. TERMINAL ROUTES: ADDED CA & DF LEGS - IAW 8260.58C, PARA 3-5-2.
3. MISSED APPROACH: UPDATED FROM "DA" TO "RNP: DA" - IAW 8260.19J, 8-6-6.C(1).
4. MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 3000 DIRECT VAYQO AND VIA 109.11 TRACK TO VKZ VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" TO "CLIMB TO 3000 DIRECT VAYQO AND ON TRACK 109.11 TO VKZ VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" - IAW 8260.19J, 8-6-6.D(11).
5. PROFILE LINE 3: ADDED FAF: VEPCO - IAW 8260.19J, 8-6-7.C(2).
6. PROFILE LINE 4: CHANGED FROM "GLRIA 3000, PIANA 3000" TO "GLRIA 3000, PIANA 3000, VEPCO 2000" - IAW 8260.19J, 8-6-7.D.
7. PROFILE LINE 5: UPDATED FROM "DIST TO THLD FROM OM" TO "DIST TO THLD FROM PFAF" AND ADDED "453 HAT: 1.23" - IAW 8260.19J, 8-6-7.E & NEW AIRPORT SURVEY.
8. PROFILE LINE 7: UPDATED 34:1 FROM "IS CLEAR" TO "IS NOT CLEAR", ADDED "20:1 IS CLEAR" AND DELETED TCH # - 34:1 HAS PENETRATIONS AND 20:1 HAS NO EXISTING PENETRATIONS/# NO LONGER REQUIRED.
9. PBN REQUIREMENTS NOTE: ADDED "RNP AR APCH-GPS AND AUTHORIZATION REQUIRED" - IAW 8260.19J, 8-6-8.D(2)(B) AND 8-6-8.D.(4)(B).
10. NOTE: DELETED "GPS REQUIRED" - NO LONGER REQUIRED.
11. NOTE: DELETED "FOR INOPERATIVE MALSR, INCREASE 0.30 ALL CATS VISIBILITY TO 1 1/2" - INOPERATIVE TABLE APPLIES.
12. NOTE: UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 6C (42F) OR ABOVE 49C (120F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 9°C OR ABOVE 54°C" - IAW 8260.19J, 8-6-10.R.
13. NOTE: UPDATED CHART NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19J, PARA 8-6-10.M(1).
14. NOTE: UPDATED FROM "CHART PLANVIEW NOTE AT FOGSO: MAX 210 KIAS" TO "CHART SPEED ICON IN PLANVIEW AT FOGSO: MAX 210 KIAS" - IAW 8260.19J, 4-6-10.G.
15. NOTE: UPDATED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT WORPP VIA V529 NORTH WESTBOUND, V35 WESTBOUND, AND ARRIVALS AT FOGSO VIA V157 WESTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT FOGSO ON V157 WESTBOUND" - V529 AND V35 DELETED DUE TO VOR MON/IAW 8360.19J, 8-2-5.E.
16. ADDITIONAL FLIGHT DATA: DELETED "CHART FAS OBST: 147 BLDG 254839N/0801845W" - NO LONGER REQUIRED FOR RNP PROCEDURES.
17. ADDITIONAL FLIGHT DATA: DELETED "AUTHORIZATION REQUIRED PER AJV-3 MEMO 1216/2010. IMPLEMENTATION OF AUTHORIZATION REQUIRED DESIGNATION" - MOVED TO PBN REQUIREMENTS.
18. ADDITIONAL FLIGHT DATA: DELETED "ROUTE TYPE QUALIFIER 1: P", "ROUTE TYPE QUALIFIER : S", "ROUTE TYPE: A, R", #TCH 64.2 MSL (DO NOT CHART) - NO LONGER REQUIRED.
19. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART MANDATORY ALTITUDE: GLRIA 3000" TO "CHART MANDATORY 3000 AT GLRIA" - IAW 8260.19J, 8-6-11.N.
20. ADDITIONAL FLIGHT DATA: DELETED "453 HAT: 1.25" - UPDATED AND MOVED TO PROFILE LINE 5.
21. ALTERNATE MINIMUMS: CHANGED FROM "NA" TO "STANDARD" - LOCAL ALTIMETER IS ON WMSCR/IAW 8260.19J, 8-6-12.B(4).
22. MINIMUMS: INCREASED RNP 0.30 DA ALL CATS FROM "461" TO "462" - NEW SURVEY TDZE.



AIRPORT ID
MIA

PROCEDURE NAME
RNAV (RNP) Y RWY 12

ORIGINAL/AMENDMENT
ORIG-C

CITY
MIAMI

STATE
FL

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZMA, MIA APP CON, MIA ATCT, AMGR

FLIGHT CHECKED BY *Digitally signed by*
RYAN CARAMANICA **ROBERT G HAMILTON**
Aug 15, 2025

OFFICE **DATE**
AJF 08/13/2025

DEVELOPED BY
ROBERT G HAMILTON (KAMARUDINI R. RAIMI)

Digitally signed by
ROBERT G HAMILTON
Aug 15, 2025

OFFICE **DATE**
AJV-A433 05/28/2025

APPROVED BY *Digitally signed by*
ROBERT G HAMILTON **ROBERT G HAMILTON**
Aug 15, 2025

OFFICE **DATE** **TITLE**
AJV-A433 MANAGER



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

<u>AIRPORT ID</u> MIA	<u>PROCEDURE NAME</u> RNAV (RNP) Y RWY 12	<u>AMDT NO.</u> ORIG-C	<u>CITY</u> MIAMI	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 9	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
FOGSO

TO
GLRIA

RNP DISTANCE PAT MAP HAT HMAS
1.00 20.36

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (12-001154)	254528.02N/0803822.52W	266	100	20	3C	1000				AC20 AT1714	3000
TERRAIN	255721.00N/0803321.00W	10 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
WORPP

TO
GLRIA

RNP DISTANCE PAT MAP HAT HMAS
1.00 23.25

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	255239.00N/0805700.00W	220	164	98	4E	1000				AC98 AT1682	3000
TERRAIN	255142.00N/0805700.00W	23 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



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9

FACILITY
RNAV

INTERMEDIATE

FROM GLRIA **TO** PIANA

RNP 1.00 **DISTANCE** 6.00 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (12-004240)	255126.00N/0802852.00W	372	500	50	5D	500				AC50 AT2078	3000
TERRAIN	255721.00N/0803215.00W	10 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM PIANA **TO** VEPCO

RNP 1.00 **DISTANCE** 3.14 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (12-004240)	255126.00N/0802852.00W	372	500	50	5D	500				AC50 AT1078	2000
TERRAIN	255412.00N/0800251.00W	10 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



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FACILITY
RNAV

FINAL

FROM
VEPCO

TO
RW12

RNP
0.30

DISTANCE
5.98

PAT

MAP
DA

HAT
453

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (12-210730)	254836.00N/0801840.00W	146	250	50	4D		19.24:1			AC50 XP29	462

COMPUTATIONS

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

SEGMENT REMARKS:

XP:29 TO MAINTAIN CURRENT MINIMUMS.

MISSED APPROACH: LEVEL SURFACE

FROM
DA

TO
VKZ VOR/DME

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
176

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
BUILDING (12-040916)	254542.37N/0801135.45W	1049	250	50	4D	1000					2100
TERRAIN	254833.00N/0801612.00W	17 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

CHANGED FROM RNP TO RNAV MA TO MATCH MISSED APPROACH INSTRUCTIONS; NO MA PEN USING RNAV MA.

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED



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9

FACILITY
RNAV

MSA

CENTER
RW12

RADIUS
25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TOWER (12-003077)	253223.94N/0802806.43W	215	17.9	1849	250	50	4D	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



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FACILITY
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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMA ARTCC, MIA APP CON

WX SERVICE ASOS	LOCATION MIA	HRS OPERATION 24	ALTIMETER SOURCE MIA	DISTANCE	WMSCR Y	ADJUSTMENTS 0
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BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
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WX REMARKS:

BACKUP ALTIMETER NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW08L - C/LINE, REIL, TAXI WAY, HIRL, PAPI-4L	NPI-G	
RW26R - C/LINE, REIL, HIRL, TAXI WAY, PAPI-4L	NPI-G	
RW08R - MALSR, TDZ, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW09 - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW12 - MALSR, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW26L - MALSF, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW27 - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW30 - MALS, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 9.1	TCH 55.8	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.00	TCH 71.6
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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

CRITICAL LOW +9C	CRITICAL HIGH +54C	ACT +9C	APT ISA +14.98C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 971 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	RNP RWY 12
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34:1

79 TREE (12-125017) 254804.7300N/0801832.3900W (8.6)

18 NAVAID (12-021513) 254757.6500N/0801814.0200W (0.94)

73 TREE (12-124891) 254806.5800N/0801832.3300W (0.04)

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.

100' VEGETATION USED PER FPT.

SPEED LIMITATION AT GLRIA DUE TO MINIMUM DTA REQUIRED FOR INTERMEDIATE GLRIA TO INTERMEDIATE STEPDOWN FIX PIANA SEGMENT.

PER MIA ATC: RNAV (RNP) TO MIRROR ILS AND RNAV (GPS) RWY 12.

ORIGINAL PROCEDURE APPEARS TO HAVE AN RNP MISSED APPROACH; BASED ON RNAV GPS MISSED APPROACH DAVIS/HAT CAN BE LOWERED ON NEXT FULL AMENDMENT.

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	2.94
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	124.42
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.51
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	124.42
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD COORDINATES (IF STR-IN)

254757.43N/0801808.24W

ARP COORDINATES

254743.30N/0801724.42W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 9 DISTANCE 1.45 NM

FAF COORDINATES

255054.29N/0802354.51W

FIX NAME COORDINATES

IF GLRIA 255524.22N/0803244.39W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.



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9

FACILITY
RNAV

PART E: PREPARED BY

NAME

ROBERT G HAMILTON (KAMARUDINI R. RAIMI)

OFFICE

AJV-A433

DATE

05/28/2025

TITLE

AERONAUTICAL INFORMATION SPECIALIST

