

**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 1	CITY MIAMI	STATE FL
AIRPORT ELEVATION 9	TDZE 9	SUPERSEDED RNAV (RNP) Y RWY 12	DATED 03/19/2026	MAG VAR 5W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
HAVOC	IAF	FENDR		TF	FB	1.00	303.35	3.74	4000
FENDR		PIANA		RF	FB	1.00	(2.07 NM RADIUS CCW (CFMPC))	6.47	3000
GLRIA	IAF	PIANA		TF	FB	1.00	124.35	6.00	3000
PIANA	IF	VEPCO		TF	FB	1.00	124.35	3.14	2000
VEPCO	PFAF	RW12	MAP	TF	FO	0.30	124.42	5.98	
RW12	MAP	500 MSL		CA			124.42		500
500 MSL		ZOMGU		DF	FO	1.00			3000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 3000 DIRECT ZOMGU 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 PIANA
- FAC: 124.42 FAF: VEPCO DIST FAF TO MAP: DIST FAF TO THLD:
- MIN ALT: 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: 56.4
- MSA FROM: RW12 2900



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM FENDR: RF.

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 SPEED ICON IN PLANVIEW AT FENDR: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, LT, 114.53 INBOUND.
CHART MANDATORY 3000 AT GLRIA.
CHART MANDATORY 3000 AT PIANA.

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

- DELETED BOTH EXISTING FEEDER ROUTES FROM WORPP AND FOGSO - ATC REQUEST.
- ADDED NEW INTERMEDIATE SEGMENT FROM HAVOC..FENDR..PIANA..VEPCO - ATC REQUEST.
- AMENDED MISSED APPROACH PROCEDURE AND HOLDING PATTERN FROM "CLIMB TO 3000 DIRECT VAYQO AND VIA 109 TRACK TO VKZ VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD" TO "CLIMB TO 500 THEN CLIMBING LEFT TO 3000 DIRECT ZOMGU AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000." - ATC REQUEST.
- ADDED ADDITIONAL FLIGHT DATA CHART MANDATORY 3000 AT PIANA - IAW 8260.19K 8-6-11 N
- PROFILE LINE 2: CHANGED FROM PROFILE STARTS AT GLRIA TO PROFILE STARTS AT PIANA - IAW 8260.19K 8-6-7 B 3 B
- PROFILE LINE 4: MIN ALT CHANGED FROM GLRIA 3000, PIANA 3000, VEPCO 2000 TO PIANA 3000, VEPCO 2000 - IAW 8260.19K 8-6-7 D 3 B
- PROFILE LINE 7: GP ANGLE/TCH CHANGED FROM 3.0/55.8 TO 3.0/56.4 - TO MATCH CURRENT GPA/TCH FOR ILS AND RNAV (GPS).
- PBN REQUIREMENTS NOTE: CHANGE FROM RNP AR APCH - GPS. AUTHORIZATION REQUIRED TO RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM FENDR: RF - IAW 8260.19K 8-6-8 D 5 B 2
- NOTES: CHANGED FROM CHART SPEED ICON IN PLANVIEW AT FOGSO: MAX 210 KIAS. TO CHART SPEED ICON IN PLANVIEW AT FENDR: MAX 210 KIAS - REMOVED FEEDER FOGSO.
- ADDITIONAL FLIGHT DATA: CHANGED HOLDING FROM HOLD SE, LT, 300.00 INBOUND TO HOLD NW, LT, 114.53 INBOUND - NEW MISSED APPROACH HOLDING.
- NOTES: ADDED CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS - IAW 8260.19K 8-6-8 B 3 B

03/26/2026: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/02/2026.

- CHANGED HAVOC FROM AN "IF" TO AN "IAF".
- CHANGED FENDR FROM AN "IF" STEPDOWN TO AN "IAF" STEPDOWN.
- CHANGED GLRIA FROM AN "IF" TO A "IAF".
- CHANGED PIANA FROM AN "IF" STEP DOWN TO AN "IF".
- DELETED PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS



AIRPORT ID
MIA

PROCEDURE NAME
RNAV (RNP) Y RWY 12

ORIGINAL/AMENDMENT
1

CITY
MIAMI

STATE
FL

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

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

FLIGHT CHECKED BY
JAMES ROBERT JONES

Digitally signed by
ROBERT G HAMILTON
Mar 27, 2026

OFFICE
FIOG

DATE
03/25/2026

DEVELOPED BY
JOSHUA DUGAN

Digitally signed by
ROBERT G HAMILTON
Mar 27, 2026

OFFICE
AJV-A433

DATE
02/02/2026

APPROVED BY
ROBERT G HAMILTON

Digitally signed by
ROBERT G HAMILTON
Mar 27, 2026

OFFICE
AJV-A433

DATE

TITLE
MANAGER



AIRPORT ID
MIA

PROCEDURE NAME
RNAV (RNP) Y RWY 12

AMDT NO.
1

CITY
MIAMI

STATE
FL

AIRPORT ELEVATION
9

FACILITY
RNAV

INITIAL

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 (12-004243)	255132.00N/0802856.00W	372	500	50	5D	500				AC50 AT2078	3000
TERRAIN	255224.00N/0802912.00W	19 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

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 (12-004242)	255122.00N/0802846.00W	372	500	50	5D	500				AC50 AT1078	2000
TERRAIN	255239.00N/0802318.00W	36 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
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AIRPORT ELEVATION
9

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		19.56:1			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
ZOMGU

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
301

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/0801539.00W	52 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:

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



AIRPORT ID
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RNAV (RNP) Y RWY 12

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FACILITY
RNAV

MSA

CENTER RW12 **RADIUS** 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
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:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMA ARTCC, MIA APP CON

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	MIA	24	MIA		Y	0

<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

BACKUP ALTIMETER NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW08L - REIL, C/LINE, TAXI WAY, HIRL, PAPI-4L	NPI-G	
RW26R - HIRL, TAXI WAY, REIL, C/LINE, PAPI-4L	NPI-G	
RW08R - MALSR, HIRL, C/LINE, TDZ, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW09 - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW12 - MALSR, C/LINE, HIRL, 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, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	9.1	56.4			3.00	71.6

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	



AIRPORT ID
MIA

PROCEDURE NAME
RNAV (RNP) Y RWY 12

AMDT NO.
1

CITY
MIAMI

STATE
FL

AIRPORT ELEVATION
9

FACILITY
RNAV

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 (2021-2025).
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
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.
PER MIA ATC: RNAV (RNP) TO MIRROR ILS AND RNAV (GPS) RWY 12.



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RNAV (RNP) Y RWY 12

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FACILITY
RNAV

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	119.42
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	119.42
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.

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JOSHUA DUGAN	AJV-A433	02/02/2026	AERONAUTICAL INFORMATION SPECIALIST

