

**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> TMB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MIAMI	<u>STATE</u> FL		
<u>AIRPORT ELEVATION</u> 10	<u>TDZE</u> 8	<u>SUPERSEDED</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 12/02/2021	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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
DHP VORTAC		JULED		TF	FO	1.00	245.03	18.07	2000
VKZ VOR/DME		JULED		TF	FO	1.00	262.21	26.82	2100
FOGSO	IAF	JULED	NOPT	TF	FB	1.00	087.42	5.59	2300
JULED	IF/IAF	HASDU		TF	FB	1.00	093.23	6.05	1500
HASDU	FAF	JOGNO/1.39 NM TO RW09L		TF	FB	0.30	093.27	3.13	
JOGNO/1.39 NM TO RW09L		RW09L	MAP	TF	FO	0.30	093.27	1.39	
RW09L	MAP	258 MSL		CA			093.27		
258 MSL		HOTMA		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW09L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT HOTMA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)	
2. HOLD W JULED, LT, 093.23 INBOUND, 2000 IN LIEU OF PT (IAF), MAX 4000.						
3. FAC: 093.27	FAF: HASDU		DIST FAF TO MAP: 4.52	DIST FAF TO THLD: 4.52		
4. MIN ALT: JULED 2000, HASDU 1500, JOGNO/1.39 NM TO RW09L 500						
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.62	GS ANT:	
6. MIN GP INCPT: 1500	GP ALT AT PFAF: HASDU 1500			OM:	MM:	IM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 52.5			
8. MSA FROM: RW09L 2900						

QUALITY
39
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA WHEN USING MIA ALTIMETER SETTING.
CHART NOTE: CIRCLING RWY 13 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DHP VORTAC AIRWAY RADIALS 195 CW 303.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MIA ALTIMETER SETTING AND INCREASE LPV DA TO 283 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 290 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 40 FEET AND LNAV CATS C/D VISIBILITY 1/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 273.42 INBOUND.
CHART FAS OBST: 104 TREE (12-037042) 253922N/0802613W.
CHART A-291D.
WAAS CHANNEL # 99415
REFERENCE PATH ID: W09B
LTP HAE: -22.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	258	3/4	250	258	3/4	250	258	3/4	250	258	3/4	250			
LNAV/VNAV DA	265	3/4	257	265	3/4	257	265	3/4	257	265	3/4	257			
LNAV MDA	360	1	352	360	1	352	360	1	352	360	1	352			
CIRCLING	460	1	450	560	1	550	640	1 3/4	630	640	2	630			



CHANGES - REASONS

1. TERMINAL ROUTES: UPDATED SEGMENT FOGSO – JULED FROM FEEDER TO INITIAL. – DOES NOT REQUIRE A HOLD-IN-LIEU OF PT, COURSE CHANGES LESS THAN 90 DEGREES.
2. TERMINAL ROUTES: UPDATED INTERMEDIATE JULED – HASDU DISTANCE FROM 6.10 TO 6.05; FINAL HASDU – JOGNO DISTANCE FROM 3.01 TO 3.13 AND JOGNO – RW09L DISTANCE FROM 1.40 TO 1.39. – FAF HASDU MOVED TO ACCOMMODATE VGSI GPA/TCH 3.00/52.5.
3. LINE 2: ADDED MAX ALTITUDE 4000. – UPDATED FORMS.
4. LINE 3: UPDATED DIST FAF TO MAP/THLD FROM 4.47 TO 4.52. - FAF HASDU MOVED TO ACCOMMODATE VGSI GPA/TCH 3.00/52.5.
5. LINE 5: ADDED DIST TO THLD FROM 250 HAT: 0.62; REMOVED "DISTANCE TO THLD FROM 250 HAT: 0.63 NM" FROM ADDITIONAL FLIGHT DATA. – IAW 8260.19K 8-6-7 E; UPDATED EVALUATION; FORMS UPDATED.
6. LINE 7: ADDED 20:1 IS CLEAR; UPDATED TCH FROM 50.0 TO 52.5. – NO 20:1 PENETRATIONS FOUND; TO MATCH VGSI.
7. PBN REQUIREMENTS NOTES: ADDED RNP APCH – GPS. - IAW 8260.19K 8-6-8.
8. NOTES: UPDATED CHART NOTE: FROM "CIRCLING TO RWY 13 NA AT NIGHT" TO "CIRCLING RWY 13 NA AT NIGHT." – IAW 8260.19K 8-6-12 O(2)G.
9. NOTES: UPDATED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA FROM "BELOW -15°C (5F) OR ABOVE 48°C (118F)" TO "BELOW -15°C OR ABOVE 54°C." - FAHRENHEIT REMOVED IAW 8260.19K; NEW EVALUATION COMPLETED WITH DOCUMENTED STANDARD -30C ISA.
10. NOTES: UPDATED BARO-VNAV NOTE FROM LOCATION (MIAMI INTL) TO LOCATION ID/ICAO (MIA). - IAW 8260.19K 8-6-10F(4).
11. NOTES: ADDED CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. - PER ATC REQUEST; IAW 8260.19K 8-6-10 O.
12. NOTES: ADDED CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS; USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS. - IAW 8260.19K 8-6-12 O8(C/D).
13. NOTES: REMOVED CHART NOTE: DME/DME RNP-0.3 NA; *LNAV ONLY AND STEPDOWN * ICONS. – NO LONGER REQUIRED.
14. NOTES: UPDATED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, FROM "USE MIAMI INTL ALTIMETER SETTING AND INCREASE ALL DA 27 FEET AND ALL MDA 40 FEET; INCREASE LPV ALL CATS VISIBILITY 1/4 MILE, LNAV CAT C VISIBILITY 1/4 MILE, AND CIRCLING CAT D VISIBILITY 1/4 MILE" TO "USE MIA ALTIMETER SETTING AND INCREASE LPV DA TO 283 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 290 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 40 FEET AND LNAV CATS C/D VISIBILITY 1/8 SM." – NEW EVALUATION COMPLETED; IAW 8260.19J 8-6-10F(4).
15. ADDITIONAL FLIGHT DATA: REMOVED CHART FAS OBST: 64 OL ON TOWER 253914N/0802629W AND CHART 160 TOWER 253850N/0803019W. – ONLY NON-PRECISION CONTROLLER IS CHARTED; NO 7:1 APPLIED.
16. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST: FROM "98 TREE 253922N/0802613W" TO "104 TREE (12-037042) 253922N/0802613W." – NEW LNAV CONTROLLING OBSTACLE.
17. MINIMUMS: DECREASED LNAV/VNAV DA/HAT FROM 364/356 TO 265/257L VISIBILITY ALL CATS FROM 1 ¼ TO ¾ SM. – NEW CONTROLLING OBSTACLE; IAW 8260.3G TABLES 3-3-1.
18. MINIMUMS: DECREASED LNAV MDA/HAT FROM 380/372 TO 360/352; VISIBILITY CAT D FROM 1 ¼ TO 1 SM. - NEW CONTROLLING OBSTACLE; IAW 8260.3G TABLES 3-3-1.
19. FAS DATA: UPDATED FPAP LATITUDE AND LONGITUDE FROM "253913.6800N/0802445.8000W" TO "253913.6635N/0802445.8055W. - NEW AIRNAV DATA INCORPORATED.
20. FAS DATA: UPDATED THRESHOLD CROSSING HEIGHT (TCH) FROM 50.0 TO 52.5. - TO MATCH VGSI.
21. FAS DATA: UPDATED CRC REMAINDER FROM 9969A465 TO 5ABC0DBE. -FPAP LAT/LONG AND TCH UPDATED.

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

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

FLIGHT CHECKED BY

JAMES R JONES

Digitally signed by

APRIL T SARMENTO

Jul 23, 2026

OFFICE

AJF

DATE

07/13/2026

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

Digitally signed by

APRIL T SARMENTO

Jul 23, 2026

OFFICE

AJV-A432

DATE

03/13/2026

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

APRIL T SARMENTO

Jul 23, 2026

OFFICE

AJV-A430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTMB
RUNWAY	RW09L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09B
LTP/FTP LATITUDE	253909.4870N
LTP/FTP LONGITUDE	0802624.3015W
LTP/FTP ELLIPSOIDAL HEIGHT	-00224
FPAP LATITUDE	253913.6635N
FPAP LONGITUDE	0802445.8055W
THRESHOLD CROSSING HEIGHT (TCH)	00052.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5ABC0DBE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00024
FPAP ORTHOMETRIC HEIGHT	+00024



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

<u>AIRPORT ID</u> TMB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9L	<u>AMDT NO.</u> 1	<u>CITY</u> MIAMI	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 10	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
DHP VORTAC

TO
JULED

<u>RNP</u> 1.00	<u>DISTANCE</u> 18.07	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (12-000221)	254624.36N/0802516.20W	549	250	50	4D	1000				AT451	2000
TERRAIN	254700.00N/0802309.00W	36 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM
VKZ VOR/DME

TO
JULED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	26.82										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
BUILDING (12-086917)	254521.83N/0801108.46W	1049	250	50	4D	1000					2100
TERRAIN	254227.00N/0802003.00W	42 (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

FOGSO

TO

JULED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	5.59										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	253733.00N/0804021.00W	210	215	8	4B	1000				AT1090	2300
TERRAIN	253724.00N/0804027.00W	9 (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

JULED (IF/IAF)

TO

HASDU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	6.05										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	253709.00N/0803445.00W	210	215	8	4B	500					800
TERRAIN	253651.00N/0803524.00W	9 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

HASDU

TO

RW09L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.52		DA				250				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (12-026606)	253913.74N/0802628.61W	59	20	3	1A		34.00:1			SA-10	258

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

HASDU

TO

RW09L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.52		DA				257				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (12-037042)	253921.77N/0802613.00W	104	20	3	1A	161					265

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

HASDU

TO

JOGNO/1.39 NM TO RW09L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	3.13										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	253745.00N/0803139.00W	207	215	8	4B	250				RA40	500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

JOGNO/1.39 NM TO RW09L

TO

RW09L

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	1.39		RW09L	352	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (12-037042)	253921.77N/0802613.00W	104	20	3	1A	250					360

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

JULED

TO

P-4

RNP	DISTANCE	PAT	MAP	HAT	HMAS
		P-4			

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	253724.00N/0804027.00W	210	215	8	4B	1000				AT790	2000
TERRAIN	253724.00N/0804027.00W	9 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LPV

FROM

DA

TO

HOTMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30											69
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2000
BLDG_TWR (12-002222)	254106.00N/0801851.00W	369	250	50	4D	1000					1400
TERRAIN	254051.00N/0801903.00W	39 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

HOTMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30											104
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2000
BLDG_TWR (12-002222)	254106.00N/0801851.00W	369	250	50	4D	1000					1400
TERRAIN	254051.00N/0801903.00W	39 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV

FROM

RW09L

TO

HOTMA

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u> 260				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2000
BLDG_TWR (12-002222)	254106.00N/0801851.00W	369	250	50	4D	1000					1400
TERRAIN	254051.00N/0801903.00W	39 (0)								AS1500	1500

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (12-005022)	253814.36N/0802546.43W	1.30	450	158	20	3	1A	300			460
CATEGORY B											
BUILDING (12-026607)	254040.97N/0802716.32W	1.81	550	258	50	20	2C	300			560
CATEGORY C											
TOWER (12-003199)	253734.35N/0802300.26W	2.84	630	321	20	10	1B	300			640
CATEGORY D											
TOWER (12-003199)	253734.35N/0802300.26W	3.70	630	321	20	10	1B	300			640

CIRCLING REMARKS:

MSA

CENTER

RW09L

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	199	6.9	1849	250	50	4D	1000			2900

MSA REMARKS:

QUALITY

39

CHECKED

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MIA APP CON, TMB TOWER

<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	TMB	24	TMB		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>
ASOS	MIA	24	MIA	11.78	Y	25

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KTMB 10, KMIA 9
RA = 24.3.

<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>
RW13 - REIL, MIRL (PCL), PAPI-4L		BSC-G	
RW31 - MIRL (PCL)		BSC-G	
RW09L - MIRL, PAPI-4L		NPI-F	
RW27R - MIRL, PAPI-2L		NPI-F	
RW09R - MALSR (PCL), HIRL (PCL), PAPI-4R		PIR-F	
RW27L - HIRL (PCL), PAPI-4L		PIR-F	

<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	7.8	52.5			3.00	52.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-15C	+54C	-15C	+14.98C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 955 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 13
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<u>AIRPORT ID</u> TMB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9L	<u>AMDT NO.</u> 1	<u>CITY</u> MIAMI	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 10	<u>FACILITY</u> RNAV
20:1						
10 TERRAIN (12-029030) 253903.35N/0802628.64W (1.54)						
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - VDP WITHIN 0.5 NM FROM FINAL FIX.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
60' TREES USED PER FPT.

TAA NOT DEVELOPED PER ATC.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	2.95
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	087.27
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.52
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	087.27
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD COORDINATES (IF STR-IN)	253909.49N/0802624.30W
ARP COORDINATES	253851.23N/0802559.61W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 27L DISTANCE 0.61 NM
FAF COORDINATES	253856.63N/0803124.15W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CASIMIR L. TABAKA (BARBARA GORMAN)	AJV-A432	03/13/2026	AERONAUTICAL INFORMATION SPECIALIST



AIRPORT ID
TMB

PROCEDURE NAME
RNAV (GPS) RWY 9L

AMDT NO.
1

CITY
MIAMI

STATE
FL

AIRPORT ELEVATION
10

FACILITY
RNAV

