

**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> OPF	<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> 8	<u>TDZE</u> 8	<u>SUPERSEDED</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 12/02/2021
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 6W
				<u>EPOCH YEAR</u> 2010
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
SIZED	IAF	OKANE	NOPT	TF	FB	1.00	092.81	5.75	1600
OKANE	IF/IAF	SAZBO		TF	FB	1.00	092.86	5.58	1600
SAZBO	FAF	ZOLTA/1.39 NM TO RW09L		TF	FB	0.30	092.90	3.45	
ZOLTA/1.39 NM TO RW09L		RW09L	MAP	TF	FO	0.30	092.90	1.39	
RW09L	MAP	258 MSL		CA			092.90		
258 MSL		JOLYN		DF	FB	1.00			
JOLYN		JANUS		TF	FO	1.00	076.11	31.13	2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW09L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT JOLYN AND ON 076.11 TRACK TO JANUS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|--|----------------------------|----------------|-----------------------|------------------------|-------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD W OKANE, LT, 092.86 INBOUND, 1600 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 092.90 | FAF: SAZBO | | DIST FAF TO MAP: 4.84 | DIST FAF TO THLD: 4.84 | |
| 4. MIN ALT: OKANE 1600, SAZBO 1600, ZOLTA/1.39 NM TO RW09L 500 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | GS ANT: | |
| 6. MIN GP INCPT: 1600 | GP ALT AT PFAF: SAZBO 1600 | | OM: | MM: | IM: |
| 7. GP ANGLE: 3.00 | 34:1: IS NOT CLEAR | 20:1: IS CLEAR | TCH: 51.3 | | |
| 8. MSA FROM: RW09L 2900 | | | | | |



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 8°C OR ABOVE 54°C.

CHART NOTE: RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS AND LNAV CATS A AND B VISIBILITY TO 1 SM, AND LNAV CATS C AND D VISIBILITY TO 1 1/8 SM.

CHART NOTE: CAUTION: LIGHTS ON HIGHWAY 0.7 NM NORTH MAY BE MISTAKEN FOR RUNWAY.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 059.89 INBOUND.

CHART FAS OBST: 156 TOWER (12-003794) 255515N/0801712W.

CHART 289 TOWER (12-002776) 255401N/0802259W.

WAAS CHANNEL # 53422

REFERENCE PATH ID: W09A

LTP HAE: -23.1 M

MINIMUMS:**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	258	3/4	250	258	3/4	250	258	3/4	250	258	3/4	250			
LNAV/VNAV DA	337	3/4	329	337	3/4	329	337	3/4	329	337	3/4	329			
LNAV MDA	420	3/4	412	420	3/4	412	420	3/4	412	420	3/4	412			
CIRCLING	480	1	472	520	1	512	620	1 3/4	612	740	2 1/4	732			

CHANGES - REASONS

1. TERMINAL ROUTES: REPLACED FIX WUDIP WITH FIX SIZED; COURSE CHANGED FROM "117.59" TO "092.81", DISTANCE CHANGED FROM "15.89" TO "5.75" - ATC REQUEST.
2. TERMINAL ROUTES: RNP VALUES ADDED TO ALL SEGMENTS IN TERMINAL ROUTES - CURRENT DOCUMENTATION STANDARDS.
3. TERMINAL ROUTES: UPDATED DEFINITION OF ZOLTA FROM "SAZBO TO ZOLTA/1.50 NM TO RWY09L" TO "SAZBO TO ZOLTA/1.39 NM TO RWY09L" – FIX ZOLTA MOVED.
4. TERMINAL ROUTES: UPDATED DISTANCE FOR SAZBO TO ZOLTA/1.39 NM TO RW09L FROM "3.34" TO "3.45" - FIXES SAZBO AND ZOLTA MOVED.
5. TERMINAL ROUTES: CHANGED ZOLTA TO RWY DISTANCE FROM "3.324" TO "3.45" – FIX ZOLTA MOVED.
6. TERMINAL ROUTES: UPDATED COURSE FOR ZOLTA/1.39 NM TO RW09L FROM 092.93 TO 092.90 – FIX ZOLTA MOVED.
7. PROFILE LINE 2: ADDED "MAX 6000" - IAW 8260.19J 8-6-7(2).
8. PROFILE LINE 4: CHANGED ZOLTA/1.39 NM TO RW09L MIN ALT FROM 520 TO 500 – CONTROLLING OBSTACLE CHANGED.
9. PROFILE LINE 7: ADDED "IS CLEAR" TO 20:1 SECTION – IAW 8260.19J 8-6-7.
10. PBN REQUIREMENTS NOTE: ADDED "RNP APCH – GPS" – IAW 8260.19J 8-6-8.
11. NOTES: REMOVED "CHART NOTE: DME/DME RNP-0.3 NA." – NO LONGER APPLICABLE.
12. NOTES: UPDATED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C (5°F) OR ABOVE 43°C (109°F)." TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 8°C OR ABOVE 54°C." – NEW WEATHER/TEMPERATURE DATA.
13. NOTES: REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WUDIP ON V7 NORTHWEST BOUND." – WUDIP REMOVED FROM PROCEDURE PER ATC REQUEST.
14. NOTES: MOVED BACKUP ALTIMETER (MIA) NOTES FROM -3 TO -9 - REDUCES CHART/PLATE CLUTTER.
15. NOTES: UPDATED NOTE FROM "CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 MILE, LNAV CATS A AND B VISIBILITY TO 1 MILE AND CATS C AND D VISIBILITY TO 1 1/8 MILES." TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS AND LNAV CATS A AND B VISIBILITY TO 1 SM, AND LNAV CATS C AND D VISIBILITY TO 1 1/8 SM." – IAW 8260.19J 8-6-12.
16. NOTES: UPDATED NOTE FROM "CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA" TO "CHART NOTE: RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." – IAW 8260.19J 8-6-12.
17. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBSTACLE NOTE FROM "CHART FAS OBST: 159 TOWER 255515N/0801712W." TO "CHART FAS OBST: 156 TOWER (12-003794) 255515N/0801712W." – MSL ELEVATION UPDATED/OBSTACLE ID ADDED.
18. ADDITIONAL FLIGHT DATA: UPDATED NOTE FROM "CHART: 274 TOWER 255401N/0802259W." TO "CHART 289 TOWER (12-002776) 255401N/0802259W." – MSL ELEVATION CHANGED/OBSTACLE ID ADDED.
19. MINIMUMS CHART: LNAV/VNAV MINIMUMS INCREASED FROM "321(DA) 313(HAT)" TO "337(DA) 329(HAT)" - NEW CONTROLLING OBSTACLE.
20. MINIMUMS CHART: CIRCLING CAT A MINIMUMS DECREASED FROM "540(MDA) 532(HAA)" TO "480(MDA) 472(HAA)", CIRCLING CAT B DECREASED FROM "540(MDA) 532(HAA)" TO "520(MDA) 512(HAA)" - MATCHES CIRCLING MINIMA WITH THE RNAV (GPS) RWY 30 PROCEDURE THAT HAS BEEN FLIGHT CHECKED.
21. FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM "CB5DF10F" TO "533E6A4F" - FPAP CHANGED/COURSE WIDTH AT THRESHOLD CHANGED.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZMA, MIA APCH, OPF ATCT, OPF APT MGR

FLIGHT CHECKED BY

ROBERT E WILLIAMS

Digitally signed by

ROBERT G HAMILTON

Apr 14, 2025

OFFICE

AJF

DATE

04/10/2025

DEVELOPED BY

DEVON KERCHER

Digitally signed by

ROBERT G HAMILTON

Apr 14, 2025

OFFICE

AJV-A431

DATE

12/09/2024

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Apr 14, 2025

OFFICE

AJV-A433

DATE

TITLE

MANAGER



AIRPORT ID
OPF

PROCEDURE NAME
RNAV (GPS) RWY 9L

ORIGINAL/AMENDMENT
1

CITY
MIAMI

STATE
FL

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KOPF
RUNWAY	RW09L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	255445.5280N
LTP/FTP LONGITUDE	0801719.2200W
LTP/FTP ELLIPSOIDAL HEIGHT	-00231
FPAP LATITUDE	255450.2980N
FPAP LONGITUDE	0801540.5420W
THRESHOLD CROSSING HEIGHT (TCH)	00051.3
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)	50.0

CRC REMAINDER	533E6A4F
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00021
FPAP ORTHOMETRIC HEIGHT	+00021

QUALITY
35
CHECKED

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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
OPF	RNAV (GPS) RWY 9L	1	MIAMI	FL	8	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM **TO**
SIZED OKANE

RNP DISTANCE PAT MAP HAT HMAS
1.00 5.75

<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 (12-000236)	255226.13N/0802858.67W	317	20	50	1D	1000				AT283	1600
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: LNAV

FROM **TO**
OKANE (IF/IAF) SAZBO

RNP DISTANCE PAT MAP HAT HMAS
1.00 5.58

<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 (12-000236)	255226.13N/0802858.67W	317	20	50	1D	500				AT783	1600
TERRAIN	255339.00N/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:

QUALITY
35
CHECKED

FINAL: LPV

FROM

SAZBO

TO

RW09L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.84		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>
							ASC			XP50	258

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RETAIN CURRENT MINIMUMS

FINAL: LNAV/VNAV

FROM

SAZBO

TO

RW09L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.84		DA	329	

<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 (12-003794)	255515.36N/0801711.78W	156	50	20	2C	161				AC20	337

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

SAZBO

TO

ZOLTA/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	3.45										
<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	255409.00N/0802057.00W	230	215	8	4B	250				RA20	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

ZOLTA/1.39 NM TO RW09L

TO

RW09L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	1.39		RW09L		412						
<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 (12-003794)	255515.36N/0801711.78W	156	50	20	2C	250					420

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
OKANE

TO
P-4

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-4	<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 (12-002435)	255128.00N/0802851.00W	372	500	50	5D	1000				AT228	1600
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:

MISSED APPROACH: LPV

FROM
DA

TO
JANUS

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 70			
<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
BUILDING (12-128111)	255520.27N/0800718.33W	649	20	3	1A	1000					1700
TERRAIN	255745.00N/0800851.00W	36 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

JANUS

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 176				
<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
BUILDING (12-128111)	255520.27N/0800718.33W	649	20	3	1A	1000					1700
TERRAIN	255745.00N/0800851.00W	36 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW09L

TO

JANUS

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 320				
<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
BUILDING (12-128111)	255520.27N/0800718.33W	649	20	3	1A	1000					1700
TERRAIN	255745.00N/0800851.00W	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

OPF

PROCEDURE NAME

RNAV (GPS) RWY 9L

AMDT NO.

1

CITY

MIAMI

STATE

FL

AIRPORT ELEVATION

8

FACILITY

RNAV

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 (12-020187)	255330.55N/0801459.08W	1.30	472	162	20	3	1A	300			480
CATEGORY B											
TOWER (12-025849)	255220.39N/0801555.56W	1.81	512	213	20	10	1B	300			520
CATEGORY C											
ANTENNA (12-117777)	255737.33N/0801614.34W	2.83	612	314	20	10	1B	300			620
CATEGORY D											
BUILDING (12-003042)	255732.11N/0801421.50W	3.70	732	376	500	50	5D	300		AC50	740

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW09L	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	210	24.3	1849	250	50	4D	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMA ARTCC, MIA APP CON, OPF TOWER

WX SERVICE ASOS	LOCATION OPF	HRS OPERATION 24	ALTIMETER SOURCE OPF	DISTANCE 0	WMSCR Y	ADJUSTMENTS 0
BACK-UP WX SERVICE ASOS	LOCATION MIA	HRS OPERATION 24	ALTIMETER SOURCE MIA	DISTANCE 6.76	WMSCR Y	ADJUSTMENTS 18

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
OPF 8, MIA 9
RA = 17.3

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE	
RW09R - MIRL, VASI-4L	BSC-F		
RW27L - MIRL, PAPI-4L	BSC-F		
RW30 - HIRL (PCL), PAPI-4L (PCL)	NPI-G		
RW09L - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-F		
RW27R - MAL (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-F		
RW12 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G		

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 6.8	TCH 51.3	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.00	TCH 55.2
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FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

CRITICAL LOW +8C	CRITICAL HIGH +54C	ACT +8C	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 955 HIGH TEMP 1259.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV/VNAV, LNAV
34:1	



<u>AIRPORT ID</u> OPF	<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> 8	<u>FACILITY</u> RNAV
122 TREE (12-039689) 255436.4500N/0801801.2100W (7.04)						
<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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VDP NOT ESTABLISHED - VDP IS LOCATED WITHIN 0.5 NM FROM FINAL FIX.
50 FT VEGETATION USED PER FPT.

CONTINGENCY NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MIA ALTIMETER SETTING: INCREASE LPV DA TO 276 FEET; INCREASE LNAV/VNAV DA TO 355 FEET; INCREASE ALL MDAS 20 FEET AND CIRCLING VISIBILITY CAT D 1/4 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING MIA ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 SM, AND LNAV CATS A AND B VISIBILITY TO 1 SM.

CHART NOTE: BARO-VNAV NA WHEN USING MIA ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 289 TOWER (12-002776) 255401.30N/0802258.50W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

<u>AIRPORT ID</u> OPF	<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> 8	<u>FACILITY</u> RNAV
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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	2.96
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	086.90
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.64
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	086.90
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD COORDINATES (IF STR-IN)

255445.53N/0801719.22W

ARP COORDINATES

255426.70N/0801641.60W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 27R DISTANCE 0.84 NM

FAF COORDINATES

255429.88N/0802240.95W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
DEVON KERCHER	AJV-A431	12/09/2024	AERONAUTICAL INFORMATION SPECIALIST