

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</u> ORANGE COUNTY	<u>AIRPORT ID</u> KMGJ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> MONTGOMERY	<u>STATE</u> NY
<u>AIRPORT ELEVATION</u> 370	<u>TDZE</u> 359	<u>SUPERSEDED</u> RNAV (GPS) RWY 8	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 01/03/2019	<u>MAG VAR</u> 14W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 01/31/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

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>
HUO VOR/DME	IAF	OSSEK		TF	FB	1.00	087.59	4.65	2900
OSSEK	IF	WEJTI		TF	FB	1.00	080.08	6.10	2000
WEJTI	FAF	RW08	MAP	TF	FO	0.30	080.16	4.98	
RW08	MAP	770 MSL		CA			080.16		
770 MSL		YORNO		DF	FO	1.00			
YORNO		HELON		TF	FO	1.00	340.21	9.21	5300

MISSED APPROACH

MAP:

LPV: DA
 LNAV: RW08

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5300 DIRECT YORNO AND LEFT TURN ON TRACK 340.21 TO HELON AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5300.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT OSSEK

3. FAC: 080.16

FAF: WEJTI

DIST FAF TO MAP: 4.98

DIST FAF TO THLD: 4.98

4. MIN ALT: OSSEK 2900, WEJTI 2000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

700 HAT: 2.09

GS ANT:

6. MIN GP INCPT: 2000

GP ALT AT FAF : WEJTI

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH: 40.0

8. MSA FROM: RW08 5000

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HUO VOR/DME AIRWAY RADIALS 019 CW 145.
CHART NOTE: STRAIGHT-IN RWY 8 NA AT NIGHT, CIRCLING RWY 8, 22, 26 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
WAAS CHANNEL #50216
REFERENCE PATH ID: W08A
CHART FAS OBST: 959 TREE 412921N/0742134W.
HOLD NE, RT, 208.86 INBOUND
LTP HAE: 75.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B 800-2 1/2, CAT C 900-2 1/2, CAT D 900-2 3/4

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	1059	2 1/2	700	1059	2 1/2	700	1059	2 1/2	700	1059	2 1/2	700			
LNAV MDA	1220	1	861	1220	1 1/4	861	1220	2 1/2	861	1220	2 3/4	861			
CIRCLING	1220	1 1/4	850	1220	1 1/4	850	1220	2 1/2	850	1220	2 3/4	850			

CHANGES - REASONS

1. ADDITIONAL FLIGHT DATA LTP HAE INCREASED FROM 30.5 M TO 75.3 M - RECALCULATED RUNWAY ELLIPSOIDAL HEIGHT.
2. RAISED LTP/FTP ELLIPSOIDAL HEIGHT FROM +00305 TO +00753 - RECALCULATED RUNWAY ELLIPSOIDAL HEIGHT.
3. CHANGED CRC REMAINDER FROM CBA984AF TO A42EF1C2 - NEW SIAP GENERATED ALPHANUMERIC FIGURE BASED ON NEW ELLIPSOIDAL HEIGHT.



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZNY, ZBW, NY APCH, APT MGR, ATA

FLIGHT CHECKED BY
PENDING

OFFICE

DATE

DEVELOPED BY
DUSTIN DAVIDSON

Digitally signed by
DUSTIN DAVIDSON
Dec 18, 2018

OFFICE
AJV-5442

DATE
12/18/2018

APPROVED BY
MARLON ROBINSON

Digitally signed by
JACOB POWERS
Dec 19, 2018

OFFICE
AJV-5440

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMGJ
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	413022.5065N
LTP/FTP LONGITUDE	0741605.0130W
LTP/FTP ELLIPSOIDAL HEIGHT	+00753
FPAP LATITUDE	413058.4300N
FPAP LONGITUDE	0741416.4600W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1632
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 CRC REMAINDER	 A42EF1C2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01073
FPAP ORTHOMETRIC HEIGHT	+01073



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

<u>AIRPORT</u> ORANGE COUNTY	<u>AIRPORT ID</u> KMGJ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8	<u>AMDT NO.</u> 1C	<u>CITY</u> MONTGOMERY	<u>STATE</u> NY	<u>AIRPORT ELEVATION</u> 370	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
HUO VOR/DME

TO
OSSEK

<u>RNP</u>	<u>DISTANCE</u> 4.65	<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>
1.AAO	412324.00N/0743624.00W	1510	164	98	4E	1000				DG390	2900
2.TERRAIN	412609.00N/0743430.00W	1296 (1300)								AS1000	2300

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
OSSEK

TO
WEJTI

<u>RNP</u>	<u>DISTANCE</u> 6.10	<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>
3.AAO	412621.00N/0742848.00W	1204	164	98	4E	500				AC98	1900
4.TERRAIN	412621.00N/0742848.00W	1004 (1000)								AS1000	2000

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LPV

FROM

WEJTI

TO

DA

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.98		DA	700								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TREE (KMGJT042)	412930.60N/0741816.67W		694	50	20	2C		27.03:1			AC20	1059

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

FINAL: LNAV

FROM

WEJTI

TO

RW08

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.98		RW08	861								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.TREE	412921.00N/0742134.00W		959	50	20	2C	250					1220

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



MISSED APPROACH : LPV

FROM

DA

TO

HELON

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							714				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				
7.AAO	413451.00N/0740736.00W	1011	164	98	4E	1000					2100
8.TERRAIN	413445.00N/0740739.00W	794 (800)								AS1000	1800

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

MISSED APPROACH : LNAV

FROM

RW08

TO

HELON

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							1120				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				
7.AAO	413451.00N/0740736.00W	1011	164	98	4E	1000					2100
8.TERRAIN	413445.00N/0740739.00W	794 (800)								AS1000	1800

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
9.TREE (36-108044)	413214.33N/0741604.99W	1.30	850	873	20	10	1B	300		SI	1220
CATEGORY B											
9.TREE (36-108044)	413214.33N/0741604.99W	1.82	850	873	20	10	1B	300		SI	1220
CATEGORY C											
9.TREE (36-108044)	413214.33N/0741604.99W	2.86	850	873	20	10	1B	300		SI	1220
CATEGORY D											
10.AAO	412855.67N/0742023.37W	3.73	850	920	50	20	2C	300			1220

CIRCLING REMARKS:

MSA

CENTER
RW08

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	415733.00N/0742406.00W	002	27.8	3967	164	98	4E	1000			5000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZBW ARTCC, NY APP CON

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KMGJ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMGJ	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KPOU	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KPOU	<u>DISTANCE</u> 18.41	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 72

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KMGJ 370.0, KPOU 163.5
RA = 71.3.

<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>
RW08 - MIRL (PCL), PAPI-2L		NPI-G	
RW04 - HIRL (PCL), PAPI-4L		PIR-F	
RW22 - HIRL (PCL), PAPI-2L		PIR-F	
RW26 - MIRL (PCL), PAPI-2L		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 352	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.50	<u>TCH</u> 49.4
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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

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 22
20:1	



<u>AIRPORT</u> ORANGE COUNTY		<u>AIRPORT ID</u> KMGJ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8	<u>AMDT NO.</u> 1C	<u>CITY</u> MONTGOMERY	<u>STATE</u> NY	<u>AIRPORT ELEVATION</u> 370	<u>FACILITY</u> RNAV
383 TRAVERSE_WAY (36-107601) 413116.62N/0741536.44W (8.24)				440 TREE (36-108067) 413126.78N/0741528.66W (6.45)				
381 TRAVERSE_WAY (36-107605) 413116.90N/0741536.70W (5.3)				379 TRAVERSE_WAY (36-107722) 413117.10N/0741536.93W (2.7)				
377 TRAVERSE_WAY (36-107723) 413117.30N/0741537.23W (0.19)								
Final Type	CIRCLING RWY 26							
20:1								
466 TREE (36-022850) 413044.97N/0741509.03W (42.13)				425 BUILDING (36-022848) 413044.37N/0741509.78W (4.97)				
Final Type	LPV AND LNAV							
20:1								
409 TREE (36-108194) 413021.66N/0741615.54W (28.62)				434 TREE (36-107721) 413018.92N/0741624.38W (17.26)				
428 TREE (36-107595) 413019.62N/0741623.38W (16.17)				428 TREE (36-107357) 413012.25N/0741623.19W (1.79)				
429 TREE (36-107257) 413013.75N/0741624.65W (0.77)								
Final Type	LPV AND LNAV							
34:1								
472 TREE (36-107535) 413013.56N/0741642.21W (38.97)				427 TREE (36-107421) 413012.13N/0741624.66W (28.19)				
418 TREE (36-107151) 413013.64N/0741621.67W (27.13)				418 TREE (36-107150) 413014.42N/0741622.71W (25.93)				
427 TREE (36-107256) 413017.86N/0741629.65W (24.85)				437 TREE (36-107528) 413017.47N/0741636.00W (21.38)				
423 TREE (36-022815) 413010.73N/0741625.78W (20.22)				440 TREE (36-118360) 413012.91N/0741636.12W (18.66)				
416 TREE (36-107148) 413018.61N/0741627.78W (18.58)				432 TREE (36-117578) 413010.59N/0741631.00W (18.36)				
423 TREE (36-107431) 413013.24N/0741628.34W (17.99)				437 TREE (36-108028) 413014.08N/0741636.22W (16.86)				
403 TREE (36-107725) 413016.11N/0741621.06W (16.34)				416 TREE (36-107359) 413014.08N/0741626.35W (16.07)				
441 TREE (36-022862) 413016.17N/0741640.02W (15.59)				411 TREE (36-107149) 413016.88N/0741625.93W (15.29)				
447 TREE (36-107775) 413008.95N/0741638.91W (15.19)				403 TREE (36-107600) 413018.50N/0741623.15W (14.93)				
409 TREE (36-107161) 413013.34N/0741623.13W (14.78)				425 TREE (36-108012) 413010.27N/0741629.67W (13.7)				
445 TREE (36-107767) 413010.95N/0741640.19W (12.97)				425 TREE (36-107623) 413012.60N/0741631.62W (12.5)				
404 TREE (36-107249) 413016.34N/0741624.28W (11.02)				415 TREE (36-117861) 413017.00N/0741630.33W (10.43)				
408 TREE (36-107160) 413015.54N/0741626.09W (10.36)				405 TREE (36-107253) 413017.77N/0741626.79W (8.6)				
425 TREE (36-108037) 413008.91N/0741631.46W (8.4)				426 TREE (36-108072) 413009.08N/0741633.22W (6)				
419 TREE (36-107517) 413016.46N/0741634.20W (5.85)				429 TREE (36-108120) 413009.11N/0741635.00W (5.39)				
416 TREE (36-107530) 413011.89N/0741630.29W (5.37)				441 TREE (36-107790) 413005.14N/0741639.05W (4.33)				
429 TREE (36-022863) 413014.51N/0741638.97W (3.74)				421 TREE (36-108063) 413010.45N/0741633.54W (1.99)				

QUALITY
13
CHECKED



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	4.65
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	066.16
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	859
DISTANCE FROM	THLD	TO 1500FT POINT	4.98
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.00
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	066.16
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	859

THRESHOLD
COORDINATES
(IF STR-IN)413022.51N/0741605.01W

ARP COORDINATES413042.52N/0741548.74W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 22 DISTANCE 0.55 NM

FAF
COORDINATES412821.77N/0742209.04W

FIX NAME
COORDINATES

REMARKS



FACILITY
RNAV

TITLE
AERONAUTICAL INFORMATION SPECIALIST