

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> 2G4	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> OAKLAND	<u>STATE</u> MD
<u>AIRPORT ELEVATION</u> 2933	<u>TDZE</u> 2925	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 01/08/2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 SEPTEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 9W
				<u>EPOCH YEAR</u> 2010
				<u>CANCEL/SUSPEND</u>

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 178/30 CW 358/30	NOPT	178/11 CW 358/11		5800
2. 178/11 CW 358/11		HABEX	IF/IAF	5600
3. 358/30 CW 178/30		358/11 CW 178/11		6300
4. 358/11 CW 178/11		HABEX	IF/IAF	5600

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HABEX	IF/IAF	JAXUM		TF	FB	1.00	268.09	5.99	4500
JAXUM	FAF	RW27	MAP	TF	FO	0.30	268.01	4.97	
RW27	MAP	3125 MSL		CA			268.01		
3125 MSL		PINIC		DF	FO	1.00			5700

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB 5700 DIRECT PINIC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)										
2.	HOLD E HABEX, RT, 268.09 INBOUND, 5600 FT. IN LIEU OF PT (IAF), MAX 8000.															
3.	FAC:	268.01	FAF:	JAXUM	DIST FAF TO MAP:	4.97	DIST FAF TO THLD:	4.97								
4.	MIN ALT:	HABEX 5600, JAXUM 4500														
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		200 HAT:	0.65	GS ANT:					
6.	MIN GP INCPT:	4500	GP ALT AT PFAF:	JAXUM 4500					OM:		MM:			IM:		
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	41.6								
8.	MSA FROM:															

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MGW ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MGW ALTIMETER SETTING AND INCREASE LPV DA TO 3425 FEET AND ALL VISIBILITIES 3/8 SM. INCREASE LNAV/VNAV DA TO 3475 FEET AND ALL VISIBILITIES 5/8 SM; INCREASE ALL MDAS 300 FEET AND LNAV VISIBILITY CAT C 5/8 SM, AND CIRCLING VISIBILITY CAT C 1 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 087.76 INBOUND.
CHART FAS OBST: 2942 TREE (24-023058) 393457N/0791959W.
CHART VDP AT 0.88 NM TO RW27.
WAAS CHANNEL # 86524
REFERENCE PATH ID: W27A
CHART CIRCLING ICON.
LTP HAE: 845.5 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	3125	1	200	3125	1	200	3125	1	200		NA				
LNAV/VNAV DA	3175	1	250	3175	1	250	3175	1	250		NA				
LNAV MDA	3200	1	275	3200	1	275	3200	1	275		NA				
CIRCLING	3380	1	447	3400	1	467	3500	1 1/2	567		NA				



CHANGES - REASONS

1. CHANGED TAA SECTOR 178 CW 358 ALTITUDE FROM 5600 TO 5800 AND ADDED STEPDOWN AREA WITH 11 NM RADIUS ARC - NEW OBSTACLE DATA AND ATC REQUEST.
2. CHANGED TAA SECTOR 358 CW 178 STEPDOWN AREA FROM 15 TO 11 NM ARC RADIUS - ATC REQUEST BASED ON NEW OBSTACLES.
3. CHANGED INTERMEDIATE SEGMENT FROM HABEX TO JAXUM DISTANCE FROM 6.00 TO 5.99 - FAF JAXUM MOVED 61 FEET EAST.
4. MOVED FINAL JAXUM LOCATION 61 FEET WEST AND CHANGED JAXUM TO RWY 27 DISTANCE FROM 4.96 TO 4.97 - JAXUM ADJUSTED DUE TO NEW TCH.
5. CA LEG CHANGED FROM 3175 TO 3125 - BASED ON LPV DA CHANGE FROM 3175 TO 3125.
6. TCH CHANGED FROM 44.8 TO 41.6 - NEW RWY DATA.
7. CHANGED NOTE FROM BARO-VNAV AND VDP NA WHEN USING MORGANTOWN ALTIMETER SETTING TO BARO-VNAV AND VDP NA WHEN USING MGW ALTIMETER SETTING - LOCATION ID USED IAW 8260.19J.
8. CHANGED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAVNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C - CRITICAL TEMPERATURES DOCUMENTED IN CELCIUS ONLY IAW 8260.19J PARA 8-6-10R.
9. REMOVED NOTE HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED AND CHANGED 34:1 IS NOT CLEAR TO 34:1 IS CLEAR - UPDATED OBSTACLE EVALUATION.
10. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - NO PENETRATIONS OF THE 20:1 SURFACE, DOCUMENTED IAW 8260.19J PARA 8-6-7G.3(A).
11. CHANGED FAS OBST FROM 2979 TREE 393536N/0791907W TO 2942 TREE (24-023058) 393457N/0791959W - NEW OBSTACLE DATA.
12. UPDATED 250 HAT: .64 TO 200 HAT: .65 - LOWEST DA BASED ON LPV HAT CHANGED FROM 250 TO 200 AND DISTANCE TO THLD CHANGED.
13. CHANGED CHART VDP AT 1.00 MILES TO RW27* *LNAV ONLY TO CHART VDP AT 0.88 NM TO RW27 - TCH CHANGE AND LNAV MDA CHANGE.
14. LOWERED LPV DA/HAT FROM 3175/250 TO 3125/200 - NO PENETRATIONS OF THE 34:1 SURFACE. REDUCTION APPROVED BY THE FPT/OBSTACLE IMPACT TEAM.
15. LOWERED LNAV/VNAV DA/HAT FROM 3197/272 TO 3175/250 - NO OBSTACLE PENETRATIONS EXIST. REDUCTION APPROVED BY THE FPT/OBSTACLE IMPACT TEAM.
16. LOWERED LNAV HAA/MDA FROM 3240/315 TO 3200/275 - NEW CONTROLLING OBSTACLE. REDUCTION APPROVED BY THE FPT/OBSTACLE IMPACT TEAM.
17. INCREASED CIRCLING CAT A CMDA/HAA FROM 3340/407 TO 3380/447 - NEW CONTROLLING OBSTACLES.
18. REMOVED NOTE DME/DME RNP-0.3 NA - NO LONGER NEEDED.
19. ADDED PBN REQUIREMENTS NOTE RNP APCH - GPS - REQUIRED TO ANNOTATE THE PBN NAVSPEC AND SENSOR.
20. CRC REMAINDER CHANGED FROM 5E503DFO TO F2000AEF- UPDATED TCH FAS DATA AND VERTICAL ALERT LIMIT CHANGE FROM 50 TO 35.
21. CHANGED NOTE FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MORGANTOWN ALTIMETER SETTING AND INCREASE ALL DA AND ALL DA 300 FEET. INCREASE LPV AND LNAVNAV ALL CATS VISIBILITY 1 1/8 MILE, LNAV CAT C VISIBILITY 7/8 MILE AND CIRCLING CAT C VISIBILITY 1 MILE TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MGW ALTIMETER SETTING AND INCREASE LPV DA TO 3425 FEET AND ALL VISIBILITIES 3/8 SM. INCREASE LNAV/VNAV DA TO 3475 FEET AND ALL VISIBILITIES 5/8 SM; INCREASE ALL MDAS 300 FEET AND LNAV VISIBILITY CAT C 5/8 SM, AND CIRCLING VISIBILITY CAT C 1 SM - NEW OBSTACLE EVALUATION AND UPDATED CRITERIA IN 8260.3E, CHAPTER 3.
22. CHANGED ALTERNATE MINIMUMS FROM NA TO STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE - BACKUP ALTIMETER IS AVAILABLE.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☐

HAI

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NBAA

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OTHER: ZOB, AMGR

FLIGHT CHECKED BY

MICHAEL G CAMPBELL

Digitally signed by

BEV L BORDY

Jul 08, 2024

OFFICE

FPO

DATE

07/02/2024

DEVELOPED BY

GUY COPELAND

Digitally signed by

BEV L BORDY

Jul 08, 2024

OFFICE

AJV-A433

DATE

03/11/2024

APPROVED BY

BEV L BORDY

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Jul 08, 2024

OFFICE

AJV-A430

DATE

TITLE

MANAGER



AIRPORT ID
2G4

PROCEDURE NAME
RNAV (GPS) RWY 27

ORIGINAL/AMENDMENT
3

CITY
OAKLAND

STATE
MD

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	2G4
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	393455.6660N
LTP/FTP LONGITUDE	0791938.0400W
LTP/FTP ELLIPSOIDAL HEIGHT	+08455
FPAP LATITUDE	393438.5450N
FPAP LONGITUDE	0792131.1355W
THRESHOLD CROSSING HEIGHT (TCH)	00041.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER	F2000AEF
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+08769
FPAP ORTHOMETRIC HEIGHT	+08769

