

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> HAO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> HAMILTON	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 632	<u>TDZE</u> 619	<u>SUPERSEDED</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 11/02/2023
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 NOVEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 5W
				<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CINPA		BRNIE		TF	FO	1.00	166.05	22.65	3000
BRNIE	IF/IAF	HOLGR		TF	FB	1.00	295.58	8.13	2600
HOLGR	FAF	PUNUE/3.30 NM TO RW29		TF	FB	0.30	295.46	2.78	
PUNUE/3.30 NM TO RW29		RW29	MAP	TF	FO	0.30	295.46	3.30	
RW29	MAP	819 MSL		CA			295.46		
819 MSL		MONTR		DF	FO	1.00			2700

MISSED APPROACH

MAP:  
LPV: DA  
LNAV/VNAV: DA  
LNAV: RW29

MISSED APPROACH INSTRUCTIONS:  
CLIMB TO 2700 DIRECT MONTR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD SE BRNIE, RT, 295.57 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 295.46

FAF: HOLGR

DIST FAF TO MAP: 6.08

DIST FAF TO THLD: 6.08
4. MIN ALT: BRNIE 3000, HOLGR 2600, PUNUE/3.30 NM TO RW29 1700
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.48

GS ANT:
6. MIN GP INCPT: 2600

GP ALT AT FAF: HOLGR 2600

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 45.6
8. MSA FROM: RW29 3100



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HAO

**PROCEDURE NAME**  
RNAV (GPS) RWY 29

**ORIGINAL/AMENDMENT**  
2A

**CITY**  
HAMILTON

**STATE**  
OH

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV.

**ADDITIONAL FLIGHT DATA:**

HOLD NW, RT, 115.23 INBOUND.  
FAS OBST: 829 TREE 392213N/0843055W.  
1020 AAO 392049N/0842615W.  
CHART VDP AT 1.29 NM TO RW29.  
WAAS CHANNEL # 61300  
REFERENCE PATH ID: W29A  
CHART CIRCLING ICON.  
LTP HAE: 155 M

**MINIMUMS:**

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

**ALTERNATE:** NA ☐ STANDARD; STANDARD - CAT D 1200-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<b><u>CATEGORY:</u></b>	<b><u>A</u></b>			<b><u>B</u></b>			<b><u>C</u></b>			<b><u>D</u></b>			<b><u>E</u></b>		
<b><u>FINAL TYPE</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>
LPV DA	819	3/4	200	819	3/4	200	819	3/4	200	819	3/4	200			
LNAV/VNAV DA	1080	1 1/8	461	1080	1 1/8	461	1080	1 1/8	461	1080	1 1/8	461			
LNAV MDA	1080	3/4	461	1080	3/4	461	1080	1 1/8	461	1080	1 1/8	461			
CIRCLING	1280	1	648	1280	1	648	1300	1 3/4	668	1760	3	1128			

**CHANGES - REASONS**

1. TERMINAL ROUTES: DELETED FEEDER SEGMENT FROM CVG VORTAC TO BRNIE - CVG VOR MON DECOMMISSION.
2. DELETED PLANVIEW NOTE "PROCEDURE NA FOR ARRIVAL ON CVG VORTAC AIRWAY RADIALS 010 CW 144" - CVG VOR MON DECOMMISSION.

QUALITY  
12  
CHECKED

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZID, CVG APP CON, DAY APP CON, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by

CASIMIR L TABAKA

Oct 13, 2023

DEVELOPED BY

CASIMIR L. TABAKA (ROBERT A. SWINSON)

Digitally signed by

CASIMIR L TABAKA

Oct 13, 2023

OFFICE

DATE

AJV-A432

05/12/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Oct 13, 2023

OFFICE

DATE

AJV-A430

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE  
SBAS SERVICE PROVIDER IDENTIFIER  
AIRPORT IDENTIFIER  
RUNWAY  
APPROACH PERFORMANCE DESIGNATOR  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR  
REFERENCE PATH IDENTIFIER (APPROACH ID)  
LTP/FTP LATITUDE  
LTP/FTP LONGITUDE  
LTP/FTP ELLIPSOIDAL HEIGHT  
FPAP LATITUDE  
FPAP LONGITUDE  
THRESHOLD CROSSING HEIGHT (TCH)  
TCH UNITS SELECTOR (METERS OR FEET USED)  
GLIDEPATH ANGLE (GPA)  
COURSE WIDTH AT THRESHOLD  
LENGTH OFFSET  
HORIZONTAL ALERT LIMIT (HAL)  
VERTICAL ALERT LIMIT (VAL)

0  
0  
KHAO  
RW29  
0  
0  
W29A  
392140.0730N  
0843046.1755W  
+01550  
392211.1130N  
0843233.8775W  
00045.6  
F  
03.00  
106.75  
1072  
40.0  
35.0

CRC REMAINDER

DFB19324

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE  
LTP ORTHOMETRIC HEIGHT  
FPAP ORTHOMETRIC HEIGHT

K5  
+01886  
+01886

