

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> KHAO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 29	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> HAMILTON	<u>STATE</u> OH		
<u>AIRPORT ELEVATION</u> 632	<u>TDZE</u> 619	<u>SUPERSEDED</u> ILS OR LOC RWY 29	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 10/07/2021	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> I-RQF	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 NOVEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
BRNIE/I-RQF 15.32 DME	IF/IAF	HOLGR/I-RQF 7.19 DME	NOPT				295.39	8.13 (I-RQF)	2600

MISSED APPROACH

MAP:

ILS: DA
LOC: 6.08 NM AFTER HOLGR/I-RQF 7.19 DME OR AT I-RQF 1.11 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 2600 DIRECT MIZZA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE HOLGR, LT, 295.39 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 5100.
3. FAF: 295.39 FAF: HOLGR/I-RQF 7.19 DME DIST FAF TO MAP: 6.08 DIST FAF TO THLD: 6.08
4. MIN ALT: HOLGR/I-RQF 7.19 DME 2600, ARTHN/I-RQF 3.61 DME 1460
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 981
6. MIN GS INCPT: 2600 GS ALT AT PFAF: HOLGR/I-RQF 7.19 DME 2600 OM: MM: IM:
7. GS ANGLE: 3.00 34:1: 20:1: TCH: 45.6
8. MSA FROM: ARP KHAO 3100

QUALITY
35
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

EQUIPMENT REQUIREMENTS NOTE:

DME REQUIRED.

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 29.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRNIE ON V5 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 207.08 INBOUND.

CHART FAS OBST: 764 TOWER (39-131553) 392050N/0842745W.

1110 AAO 391833N/0842314W.

CHART VDP AT 2.41 DME.

DISTANCE VDP TO THLD 1.29 NM.

CHART CIRCLING ICON.

MINIMUMS:

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

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

<u>CATEGORY:</u>	A			B			C			D			E		
<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>
S-ILS 29	819	3/4	200	819	3/4	200	819	3/4	200	819	3/4	200			
S-LOC 29	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. AIRPORT ELEVATION CHANGED FROM 633 TO 632.- UPDATED AIRNAV.
2. TERMINAL ROUTE TO HOLGR/I-RQF 7.08 DME CHANGED TO 7.19 DME, AND DISTANCE 8.23 CHANGED TO 8.13.- HOLGR COORDINATES CHANGED.
3. MAP LOC CHANGED FROM 5.97 NM AFTER HOLGR INT/I-RQF 7.08 DME OR AT I-RQF 1.11 DME TO 6.08 NM AFTER HOLGR/I-RQF 7.19 DME OR AT I-RQF 1.11 DME.- HOLGR COORDINATES CHANGED.
4. MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 2600 DIRECT HKF NDB AND HOLD TO CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 2600 ON HEADING 080 AND ROD R-207 TO MIZZA/ROD 51.11 DME AND HOLD.- HKF NDB DECOMMISSIONED.
5. PROFILE LINE 3: FAF DME CHANGED FROM 7.08 TO 7.19; DIST FAF TO MAP/DIST FAF TO THLD CHANGED FROM 5.97 TO 6.08.- HOLGR COORDINATES CHANGED.
6. PROFILE LINE 4: HOLGR INT/I-RQF 7.08 DME 2600, ARTHN INT/I-RQF 3.61 DME 1440 CHANGED TO HOLGR/I-RQF 7.19 DME 2600, ARTHN/I-RQF 3.61 DME 1460.- HOLGR COORDINATES CHANGED, MAINTAIN 3.00 VDA.
7. PROFILE LINE 6: HOLGR INT/I-RQF 7.08 DME 2600 CHANGED TO HOLGR/I-RQF 7.19 DME 2600.- HOLGR COORDINATES CHANGED.
8. BRNIE/I-RQF 15.32 DME TO HOLGR/I-RQF 7.19 DME DISTANCE CHANGED FROM 8.23 TO 8.13 - HOLGR COORDINATES CHANGED TO ALIGN TO GS.
9. PROFILE LINE 8: MSA CHANGED FROM HKF NDB 3100 TO ARP KHAO 3100.- HKF NDB DECOMMISSIONED.
10. EQUIPMENT REQUIREMENT NOTES: REMOVED ADF REQUIRED; DME REQUIRED FOR LOC ONLY CHANGED TO DME REQUIRED.- HKF NDB DECOMMISSIONED.
11. REMOVED CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 29 CATS C AND D VISIBILITY TO 2 1/2 SM; ARTHN FIX MINIMUMS: FOR INOPERATIVE ALS, INCREASE S-LOC 29 CATS C AND D VISIBILITY TO 1 3/8 SM.- UPDATED VISIBILITY EVALUATION, NOTE NO LONGER APPLIES.
12. HOLD SW, RT, 055.71 INBOUND CHANGED TO HOLD NE, RT, 207.08 INBOUND.- HKF NDB DECOMMISSIONED; MISSED APPROACH CHANGED.
13. CHART VDP AT: CHANGED FROM 2.53 DME TO 2.41 DME.- UPDATED EVALUATION.
14. DISTANCE VDP TO THLD CHANGED FROM 1.42 NM TO 1.29 NM.- UPDATED EVALUATION.
15. REMOVED FAS OBST: 1063 AAO 392042N/0842527W; CHART FAS OBSTACLE CHANGED FROM 717 TREE (39-028747) 392126N/0843003W TO 764 TOWER (39-131553) 392050N/0842745W.- UPDATED EVALUATION.
16. ALTERNATE: LOC: CAT A, B 900-2, CAT C 900-2 1/2 CHANGED TO STANDARD .- UPDATED EVALUATION.
17. MINIMUMS: S-LOC 29 MDA/HAT ALL CATS CHANGED FROM 1440/821 TO 1080/461 AND VISIBILITY CATS B/C/D CHANGED FROM 1/2/2 TO 3/4/1 1/8/1 1/8; CIRCLING MDA/HAA CATS A/B/C CHANGED FROM 1440/807 TO 1280/648, 1280/648, 1300/668, HAA CAT D CHANGED FROM 1127 TO 1128 AND VISIBILITY CAT B CHANGED FROM 1 1/4 TO 1, CAT C CHANGED FROM 2 1/2 TO 1 3/4; ARTHN FIX MINIMUMS REMOVED.- UPDATED EVALUATION, NEW OE STUDIES, DME ALWAYS RECEIVED.
18. ADDED 7:1 OBSTACLE 1110 AAO 391833N/0842314W.- UPDATED EVALUATION.
19. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRNIE ON V5 NORTHEAST BOUND.- 8260.3E 2-3-1.A(1).
20. REMOVED "INT" FROM ALL FIX DESCRIPTIONS.- DME REQUIRED, INT REMOVED TO AVOID FUTURE VORMON ISSUES.

06/02/23: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/26/22.

1. MISSED APPROACH INSTRUCTIONS CHANGED FROM “CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 2600 ON HEADING 080 AND ROD R-207 TO MIZZA/ROD 51.11 DME AND HOLD” TO “CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 2600 DIRECT MIZZA AND HOLD”.- ESV UNSAT AND MISSED APPROACH CHANGED TO RNAV CRITERIA.
2. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS.- MISSED APPROACH CHANGED TO RNAV CRITERIA.

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAL

NBAA

OTHER:

CVG APP CON, DAY APP CON, ZID, AMGR

Digitally signed by

FLIGHT CHECKED BY

MATTHEW R BUFORD

JASON KRETSCHMER

Sep 21, 2023

OFFICE

FPO

DATE

09/20/2023

DEVELOPED BY

JASON KRETSCHMER (TIA FERONTI)

Digitally signed by

JASON KRETSCHMER

Jul 12, 2023

OFFICE

AJV-A421

DATE

08/26/2022

APPROVED BY

MARLON ROBINSON

Digitally signed by

JASON KRETSCHMER

Jul 12, 2023

OFFICE

AJV-A420

DATE

TITLE

MANAGER

