

**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.

AIRPORT ID AXA	PROCEDURE NAME RNAV (GPS) RWY 31	ORIGINAL/AMENDMENT 2	CITY ALGONA	STATE IA
AIRPORT ELEVATION 1216	TDZE 1213	SUPERSEDED RNAV (GPS) RWY 30	DATED 11/07/2019	MAG VAR 3E
FACILITY RNAV	COORDINATES OF FACILITIES	ORIGINAL/AMENDMENT 1D	REQUIRED EFFECTIVE DATE 11/27/2025	EPOCH YEAR 2000
		ACTUAL EFFECTIVE DATE 27 NOVEMBER 2025	CANCEL/SUSPEND	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 219/30 CW 039/30	NOPT	IFOLA	IF/IAF	3000
2. 039/30 CW 129/30		039/5 CW 129/5		3400
3. 039/5 CW 129/5		UKLIQ	IAF	3000
4. 129/30 CW 219/30		EWHIF	IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
EWHIF	IAF	IFOLA	NOPT	TF	FB	1.00	218.87	10.00	3000
UKLIQ	IAF	IFOLA	NOPT	TF	FB	1.00	038.66	10.00	3000
IFOLA	IF/IAF	LULUS		TF	FB	1.00	308.77	4.96	2900
LULUS	FAF	BREMR/2.69 NM TO RW31		TF	FB	0.30	308.71	2.51	
BREMR/2.69 NM TO RW31	FAF	RW31	MAP	TF	FO	0.30	308.71	2.69	
RW31	MAP	1463 MSL		CA			308.71		
1463 MSL		HIGMU		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT HIGMU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- | | | | | | | | | |
|---|-----------------------|-----------------------------------|-------------------------|------------------|-------|--------------------------|------|----------------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | | | |
| 2. HOLD SE IFOLA, RT, 308.77 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000. | | | | | | | | |
| 3. FAC: 308.71 | | FAF: LULUS | DIST FAF TO MAP: | 5.20 | | DIST FAF TO THLD: | 5.20 | |
| 4. MIN ALT: IFOLA 3000, LULUS 2900, BREMR/2.69 NM TO RW31 2100 | | | | | | | | |
| 5. DIST TO THLD FROM OM: | | MM: | IM: | 150 HAT: | | 250 HAT: | 0.69 | GS ANT: |
| 6. MIN GP INCPT: 2900 | | GP ALT AT PFAF: LULUS 2900 | | | | OM: | | MM: |
| 7. GP ANGLE: 3.00 | | 34:1: IS CLEAR | 20:1: IS CLEAR | TCH: 40.0 | | | | IM: |
| 8. MSA FROM: | | | | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FXY ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FXY ALTIMETER SETTING AND INCREASE LPV DA TO 1534 FEET; INCREASE LNAV/VNAV DA TO 1680 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 80 FEET.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 128.52 INBOUND.
 CHART FAS OBST: 1364 ANTENNA (19-040838) 430413N/0941423W.
 CHART 1751 WINDMILL (19-064803) 430144N/0940914W.
 CHART VDP AT 1.13 NM TO RW31.
 WAAS CHANNEL # 40347
 REFERENCE PATH ID: W31A
 LTP HAE: 337.9 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	1463	1	250	1463	1	250		NA			NA					
LNAV/VNAV DA	1600	1 1/8	387	1600	1 1/8	387		NA			NA					
LNAV MDA	1600	1	387	1600	1	387		NA			NA					
CIRCLING	1740	1	524	1800	1	584		NA			NA					



CHANGES - REASONS

1. CHANGED ALL INSTANCES OF RWY 30 TO RWY 31 - PER FPT AIRPORT MAGVAR 1E/2025, RUNWAY WILL BE REPAINTED TO 13/31.
2. TAA: ADDED LEFT STEPDOWN FROM '039/5 CW 129/5' TO 'UKLIQ' ALTITUDE 3000 - PER FPT.
3. TERMINAL ROUTES: IAF EWHIF-IFOLA CHANGED COURSE FROM 218.86 TO 218.87 - PER FPT EWHIF MOVED 19.01 FT SW.
4. TERMINAL ROUTES: IAF UKLIQ-IFOLA CHANGED COURSE FROM 038.66 TO 038.66 - PER FPT UKLIQ MOVED 11.07 FT SW.
5. TERMINAL ROUTES: IF/IAF IFOLA-LULUS CHANGED COURSE FROM 308.76 TO 308.77 - PER FPT LULUS MOVED 257.12 FT.
6. TERMINAL ROUTES: FAF LULUS-MAP COURSE CHANGED FROM 308.70 TO 308.71 - PER FPT LULUS MOVED 257.12 FT.
7. TERMINAL ROUTES: ADDED FINAL RNAV STEPDOWN FROM 'LULUS' TO 'BREM/2.69 NM TO RW31' - PER FPT.
8. TERMINAL ROUTES: MAP CA LEG MSL CHANGED TO 1463 MSL - IAW 8260.58C 3-5-2.B, LPV DA IS LOWEST ELEVATION.
9. MISSED APPROACH: ADDED MAP LPV: DA, RNAV/VNAV: DA - PER FPT ADDED LPV AND RNAV/VNAV LINES OF MINIMA.
10. PROFILE LINE 2: CHANGED HOLD SE IFOLA INBOUND FROM 308.76 TO 308.77 - IF/IAF IFOLA-LULUS CHANGED.
11. PROFILE LINE 3: CHANGED FAC FROM 308.70 TO 308.71 - PER FPT LULUS MOVED 257.12 FT.
12. PROFILE LINE 4: ADDED 'BREM/2.69 NM TO RW31 2100' - PER FPT.
13. PROFILE LINE 5: ADDED '250 HAT: 0.69' - PER FPT ADDED LPV.
14. PROFILE LINE 6: ADDED 'MIN GP INCPT: 2900', 'GP ALT AT PFAF: LULUS 2900' - PER FPT ADDED LPV AND RNAV/VNAV LINES OF MINIMA.
15. PROFILE LINE 7: ADDED 'GP ANGLE: 3.00', 'TCH: 40.0' AND CHANGED 34:1 FROM 'IS NOT CLEAR' TO 'IS CLEAR' - PER FPT ADDED LPV, NO VISUAL PENETRATIONS IN 34:1 AREA.
16. NOTES: DELETED CHART NOTE 'RWY 30 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED' - 34:1 IS CLEAR.
17. NOTES: ADDED CHART NOTE 'CIRCLING NA TO RWYS 18 AND 36' - PER FPT ENVIRONMENTAL (TURF), ADDED CIRCLING MINIMUMS.
18. NOTES: ADDED CHART PROFILE NOTE: 'VGS AND RNAV GLIDEPATH NOT COINCIDENT (VGS ANGLE {ANGLE}/TCH {FEET})' - IAW 8260.19J PARA 8-6-10 M(1).
19. NOTES: ADDED CHART NOTE: 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FXY ALTIMETER SETTING AND INCREASE LPV DA TO 1534 FEET; INCREASE RNAV/VNAV DA TO 1671 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 80 FEET.' - PER FPT MOVED FROM -9 IAW 8260.19J 8-6-10.
20. NOTES: ADDED CHART NOTE: 'BARO-VNAV AND VDP NA WHEN USING FXY ALTIMETER SETTING' - PER FPT MOVED FROM -9 IAW 8260.19J 8-6-10.
21. ADDITIONAL FLIGHT DATA: CHART VDP AT CHANGED FROM '1.11 NM TO RW30' TO '1.13 TO RWY31' - UPDATED TARGETS CALCULATION.
22. ADDITIONAL FLIGHT DATA: DELETED 'LULUS TO RW30: 3.00/40' - REDUNDANT INFORMATION IN PROFILE LINE 7.
23. ADDITIONAL FLIGHT DATA: ADDED 'CHART 1751 WINDMILL (19-064803) 430144N/0940914W' - 7:1 OBSTACLE.
24. ADDITIONAL FLIGHT DATA: ADDED 'WAAS CHANNEL # 40347', 'REFERENCE PATH ID: W31A', 'LTP HAE: 337.9 M' - PER FPT ADDED LPV AND RNAV/VNAV LINES OF MINIMA.
25. ALTERNATE MINIMUMS: CHANGED FROM 'STANDARD' TO 'STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE' - IAW 8260.19J PARA 8-6-12 B(4).
26. MINIMUMS: ADDED LPV, RNAV/VNAV, CIRCLING - PER FPT.
27. ADDED FAS DATA BLOCK INFORMATION - PER FPT ADDED LPV AND RNAV/VNAV LINES OF MINIMA.

9/18/2026: THIS IS AN CORRECTED COPY OF THE FORM APPROVED ON 9/18/2025.
ADDED 11/27/2025 TO REQUIRED EFECTIVE DATE.

9/23/25: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/18/25.
CHART NOTE: CHANGED INCREASE RNAV/VNAV DA TO 1671 FEET TO INCREASE RNAV/VNAV DA TO 1680 FEET - RNAV/VNAV WAS MATCHED TO RNAV MDA, WHEN DOING THIS, THE BACKUP RNAV/VNAV ALTIMETER ADJUSTMENT MUST ALSO MATCH THE RNAV BACK ALTIMETER ADJUSTMENT.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZMP, AMGR

FLIGHT CHECKED BY
MARC RAYMOND WEBBER

Digitally signed by
ROBERT G HAMILTON
Sep 23, 2025

OFFICE
FIOG
DATE
06/05/2025

DEVELOPED BY
RAFAEL A MARTINEZ

Digitally signed by
RAFAEL A MARTINEZ
May 05, 2025

OFFICE
AJV-A433
DATE
02/10/2025

APPROVED BY
BEV L BORDY

Digitally signed by
ROBERT G HAMILTON
Sep 23, 2025

OFFICE
AJV-A430
DATE
10/23/2025
TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAXA
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	430425.9720N
LTP/FTP LONGITUDE	0941559.8795W
LTP/FTP ELLIPSOIDAL HEIGHT	+03379
FPAP LATITUDE	430525.1895N
FPAP LONGITUDE	0941730.7405W
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	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 4879967B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03668
FPAP ORTHOMETRIC HEIGHT	+03668

