

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> KIRS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> STURGIS	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 925	<u>TDZE</u> 915	<u>SUPERSEDED</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 276/30 CW 096/30	NOPT	JETKI	IF/IAF	3000
2. 096/30 CW 186/30		HERLU	IAF	3000
3. 186/30 CW 276/30		EYEZI	IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HERLU	IAF	JETKI	NOPT	TF	FB	1.00	095.62	5.01	3000
EYEZI	IAF	JETKI	NOPT	TF	FB	1.00	275.76	5.01	3000
JETKI	IF/IAF	NUHTO		TF	FB	1.00	005.69	6.10	2500
NUHTO	FAF	RW01	MAP	TF	FO	0.30	005.69	4.80	
RW01	MAP	1178 MSL		CA		1.00	005.69		
1178 MSL		UKANE		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT UKANE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
8
CHECKED

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD S JETKI, RT, 005.69 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 005.69 FAF: NUHTO DIST FAF TO MAP: 4.80 DIST FAF TO THLD: 4.80

4. MIN ALT: JETKI 3000, NUHTO 2500

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 263 HAT: 0.71 GS ANT:

6. MIN GP INCPT: 2500 GP ALT AT PFAF : NUHTO 2500 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 40.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 6 NA AT NIGHT.
CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 47°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THREE RIVERS ALTIMETER SETTING AND INCREASE LPV DA TO 1219 FEET; INCREASE LNAV/VNAV DA TO 1395 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.
CHART NOTE: VDP NA WHEN USING THREE RIVERS ALTIMETER SETTING.
CHART NOTE: BARO-VNAV NA WHEN USING THREE RIVERS ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 185.69 INBOUND.
CHART FAS OBST: 1277 OL ON RADIO MAST 414611N/0852510W, 1068 TWR 414713N/0852535W.
CHART VDP AT 1.70 NM TO RW01.
WAAS CHANNEL # 42915
REFERENCE PATH ID: W01A
LTP HAE: 244.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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	1178	7/8	263	1178	7/8	263	1178	7/8	263	1178	7/8	263			
LNAV/VNAV DA	1354	1 1/4	439	1354	1 1/4	439	1354	1 1/4	439	1354	1 1/4	439			
LNAV MDA	1480	1	565	1480	1	565	1480	1 5/8	565	1480	1 5/8	565		QUALITY 8 CHECKED	
CIRCLING	1480	1	555	1480	1	555	1620	2	695	1620	2 1/4	695			

CHANGES - REASONS

1. UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025 - PER FPT REQUEST.
2. REMOVED CHART NOTE "DME/DME RNP-0.3 NA." - REPLACED WITH PBN REQUIREMENTS NOTE: "RNP APCH - GPS" PER 8260.19I PARA 8-6-8B.(2).
3. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 36 TO RNAV (GPS) RWY 1 - KIRS RUNWAY RENUMBER FOR MAGVAR UPDATE 4/W1995 TO 6W/2025.
4. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7 - REQUIRED PER 8260.19I 8-6-7 PARA G.(3).
5. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 47°C (116°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 47°C" - FAHRENHEIT NO LONGER ANNOTATED ON CHART NOTES PER 8260.19I PARA 8-6-9 R.
6. ADDITIONAL FLIGHT DATA: UPDATED MISSED APPROACH HOLDING FROM "HOLD N, RT, 183.69 INBOUND" TO "185.69 INBOUND" - UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025.
7. PROFILE LINE 2 HOLD-IN-LIEU: CHANGED FROM "HOLD S JETKE, RT, 003.69 INBOUND" TO "006.69 INBOUND" - UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025.
8. ADDED 2.00 DEGREES TO ALL COURSES - UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025.
9. TERMINAL ROUTE: RAISED INTERMEDIATE RNP VALUE FROM 0.50 TO 1.00 - PER 8260.58B TABLE 1-2-1.
10. MISSED APPROACH: ADDED CA LEG OF 1178 - CA TO DF REQUIRED PER 8260.58B.
11. REMOVED "CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA" - REPLACED WITH "CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" 34:1 PENETRATIONS PER 8260.19I PARA 8-6-11.K.(3).
12. CHANGED PROFILE NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - PER 8260.19I PARA M.(1).
13. INCORPORATED P-NOTAM #0/5565: CIRCLING CAT A/B HAA 515, CAT C MDA 1620/HAA 695, VIS CAT C 2, CAT D HAA 695. AIRPORT ELEVATION 925 - PER 8260.19I PARA 8-3-4.C.(2).
14. PROFILE LINE 2 ADDED "MAX 6000" TO HOLD-IN-LIEU INSTRUCTIONS - PER 8260.19I PARA 8-6-7.B.(2)(B).
15. FAS DATA: CRC REMAINDER CHANGED FROM B14310E3 TO D90DB6B4 - KIRS RUNWAY RENUMBER FOR MAGVAR UPDATE 4/W1995 TO 6W/2025.
16. UPDATED CHART NOTE FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THREE RIVERS ALTIMETER SETTING AND INCREASE ALL DA/MDA 40 FEET, INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C/D VISIBILITY 1/4 MILE" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THREE RIVERS ALTIMETER SETTING AND INCREASE LPV DA TO 1219 FEET; INCREASE LNAV/VNAV DA TO 1395 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM." - REMOTE ALTIMETER ADJUSTMENT RAISED FROM 40 TO 60 FEET; VIS APPLIED PER 8260.3E SECTION 3-3, NOTE DOCUMENTED PER 8260.19I PARA 8-6-9.(E)(4).
17. LOWERED LPV VIS ALL CATS FROM 1 TO 7/8 - 8260.3E TABLE 3-3-1 APPLIED.
18. LOWERED LNAV/VNAV VIS ALL CATS FROM 1 1/2 TO 1 1/4 - 8260.3E TABLE 3-3-1 APPLIED.
19. RAISED LNAV CAT C/D VIS FROM 1 1/2 TO 1 5/8 - 8260.3E TABLE 3-3-1 APPLIED.
20. ADDED CHART NOTE "CIRCLING RWY 6 NA AT NIGHT" - NO SURVEY FOR RWY 6; ASSUMED 20:1/34:1 OBSTACLES.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBA** ☒ **OTHER:** ZAU, SBN ATCT, AZO ATCT, AMGR.

FLIGHT CHECKED BY

GLEN B FREEMAN

Digitally signed by

CASIMIR L TABAKA

Sep 28, 2022

OFFICE

FPO

DATE

09/23/2022

DEVELOPED BY

VICTOR BOONE

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CASIMIR L TABAKA

Aug 24, 2022

OFFICE

AJV-A432

DATE

07/14/2022

APPROVED BY

JOHNNIE BAKER

Aug 16, 2022

OFFICE

AJV-A430

DATE

12/29/2022

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIRS
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	414821.4395N
LTP/FTP LONGITUDE	0852626.9710W
LTP/FTP ELLIPSOIDAL HEIGHT	+02448
FPAP LATITUDE	414950.5800N
FPAP LONGITUDE	0852627.6100W
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	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	D90DB6B4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02780
FPAP ORTHOMETRIC HEIGHT	+02780

