

**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 19	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> STURGIS	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 925	<u>TDZE</u> 915	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> 1B	<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>	<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>
NUPGE		WIREP		TF	FB	1.00	287.88	12.06	2500
WIREP	IAF	UKANE	NOPT	TF	FB	1.00	245.75	5.00	2500
RESGY	IAF	UKANE	NOPT	TF	FB	1.00	141.93	9.20	2500
UKANE	IF/IAF	ZUGDA		TF	FB	1.00	185.69	6.13	2500
ZUGDA	FAF	RW19	MAP	TF	FO	0.30	185.69	4.87	
RW19	MAP	1229 MSL		CA			185.69		
1229 MSL		JETKI		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW19

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT JETKI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

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

2. HOLD N UKANE, RT, 185.69 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 185.69 FAF: ZUGDA DIST FAF TO MAP: 4.87 DIST FAF TO THLD: 4.87

4. MIN ALT: UKANE 2500, ZUGDA 2500

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 314 HAT: 0.86 GS ANT:

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

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

8. MSA FROM: RW19 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 6 NA AT NIGHT.
CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RESGY ON V285 NORTHBOUND AND V100 WESTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NUPGE ON V10 EASTBOUND.
CHART NOTE: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THREE RIVERS ALTIMETER SETTING AND INCREASE LPV DA TO 1276 FEET AND ALL VISIBILITIES 1/8 SM.
INCREASE LNAVNAV DA TO 1270 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 005.69 INBOUND.
FAS OBST: 1149 AAO 415300N/0852916W.
CHART VDP AT 1.45 NM TO RW19.
WAAS CHANNEL # 90230
REFERENCE PATH ID: W19A
LTP HAE: 243.7 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	1235	7/8	320	1235	7/8	320	1235	7/8	320	1235	7/8	320			
LNAV/VNAV DA	1229	7/8	314	1229	7/8	314	1229	7/8	314	1229	7/8	314			
LNAV MDA	1400	1	485	1400	1	485	1400	1 3/8	485	1400	1 3/8	485		QUALITY	
CIRCLING	1440	1	515	1440	1	515	1620	2	695	1620	2 1/4	695		8	CHECKED

CHANGES - REASONS

1. UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025 - PER FPT REQUEST.
2. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 18 TO RNAV (GPS) RWY 19 - KIRS RUNWAY RENUMBER FOR MAGVAR UPDATE 4/W1995 TO 6W/2025.
3. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7 - NEW SURVEY; REQUIRED PER 8260.19I 8-6-7 PARA G.(3).
4. 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).
5. 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).
6. REMOVED CHART NOTE "WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 18 PROCEDURE NA AT NIGHT" - 20:1 IS CLEAR AND IS NO LONGER REQUIRED.
7. ADDITIONAL FLIGHT DATA: UPDATED MISSED APPROACH HOLDING FROM "HOLD S, RT, 003.69 INBOUND" TO "005.69 INBOUND" - UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025.
8. PROFILE LINE 2 HOLD-IN-LIEU: CHANGED FROM "HOLD N UKANE, RT, 183.69 INBOUND" TO "186.69 INBOUND" - UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025.
9. ADDED 2.00 DEGREES TO ALL COURSES - UPDATED KIRS MAGVAR FROM 4/W1995 TO 6W/2025.
10. TERMINAL ROUTE: RAISED INTERMEDIATE RNP VALUE FROM 0.50 TO 1.00 - PER 8260.58B TABLE 1-2-1.
11. REMOVED "CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA" - REPLACED WITH "CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 20:1 IS CLEAR AND PER 8260.19I PARA 8-6-11.K.(3).
12. INCORPORATED P-NOTAM #5/4356: LPV DA 1235, LNAV/VNAV DA 1229, LNAV HAT 485 ALL CATS. CHART TDZE 915. DELETE THRE 308. - PER 8260.19I PARA 8-3-4.C.(2).
13. INCORPORATED P-NOTAM #0/5564: CIRCLING CAT A/B HAA 515, CAT C MDA 1620/HAA 695, VIS CAT C 2, CAT D HAA 695. AIRPORT ELEVATION 925. DELETE NOTE: CIRCLING TO RWY 6, 24 NA AT NIGHT - PER 8260.19I PARA 8-3-4.C.(2).
14. REMOVED NOTE "VISIBILITY REDUCTION BY HELICOPTERS NA" - REPLACED WITH "CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" 20:1 AND 34:1 PENETRATIONS PER 8260.19I PARA K.(3).
15. TERMINAL ROUTES: LOWERED NUPGE TO WIREP RNP VALUE FROM 2.00 TO 1.00 - PER 8260.58B TABLE 1-2-1.
16. TERMINAL ROUTES: RAISED UKANE TO ZUGDA RNP VALUE FROM 0.50 TO 1.00 - PER 8260.58B TABLE 1-2-1.
17. FAS DATA: CRC REMAINDER CHANGED FROM B3DFCC75 TO 001D23F0 - KIRS RUNWAY RENUMBER FOR MAGVAR UPDATE 4/W1995 TO 6W/2025.
18. PROFILE LINE 2: ADDED "MAX 6000" TO HOLD-IN-LIEU INSTRUCTIONS - PER 8260.19I PARA 8-6-7.B.(2)(B).
19. ADDED CHART NOTE "CIRCLING RWY 6 NA AT NIGHT" - NO SURVEY FOR RWY 6; ASSUMED 20:1/34:1 OBSTACLES.
20. ADDITIONAL FLIGHT DATA: ADDED NOTE "CHART VDP AT 1.45 NM TO RWY 19" - 20:1 IS CLEAR AND PER 8260.19I PARA 8-6-10.M.
21. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THREE RIVERS ALTIMETER SETTING AND INCREASE ALL DA/MDA 40 FEET; INCREASE LPV VISIBILITY ALL CATS AND LNAV CAT C AND D 1/8 MILE, INCREASE LNAV/VNAV VIS ALL CATS 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE THREE RIVERS ALTIMETER SETTING AND INCREASE LPV DA TO 1276 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1270 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" - REMOTE ALTIMETER ADJUSTMENT RAISED FROM 40 TO 60 FEET AND PER 8260.3E SECTION 3-3, NOTE DOCUMENTED PER 8260.19I PARA 8-6-9.(E)(4).
22. LOWERED LPV VIS ALL CATS FROM 1 1/8 TO 7/8 - 8260.3E TABLE 3-3-1 APPLIED.
23. LOWERED LNAV/VNAV VIS ALL CATS FROM 1 TO 7/8 - 8260.3E TABLE 3-3-1 APPLIED.
24. LOWERED CIRCLING CAT A/B VIS FROM 1 1/8 TO 1 - 8260.3E TABLE 3-3-7 APPLIED.
25. RAISED MISSED APPROACH CA LEG ALTITUDE FROM 1222 TO 1229 FT - PER 8260.58B PARA 3-5.2.B.

COORDINATED WITH:

10/19/2022: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 8/24/2022
PROFILEVIEW LINE 5 ADDED DIST TO THLD FROM 314 HAT:0.86

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HA1** ☐ **NBAA** ☒ **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

*Digitally signed by***VICTOR C BOONE**

Aug 22, 2022

OFFICE

AJV-A432

DATE

07/14/2022

APPROVED BY

JOHNNIE BAKER

*Digitally signed by***CASIMIR L TABAKA**

Aug 24, 2022

OFFICE

AJV-A430

DATE

12/29/2022

**TITLE
MANAGER**

QUALITY
8
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIRS
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	414912.8100N
LTP/FTP LONGITUDE	0852627.3395W
LTP/FTP ELLIPSOIDAL HEIGHT	+02437
FPAP LATITUDE	414743.6700N
FPAP LONGITUDE	0852626.7000W
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	001D23F0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02768
FPAP ORTHOMETRIC HEIGHT	+02768



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KIRS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 19	<u>AMDT NO.</u> 1C	<u>CITY</u> STURGIS	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 925	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM NUPGE TO WIREP

<u>RNP</u>	<u>DISTANCE</u> 12.06	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (26-002144)	420108.00N/0851950.00W		1394	500	50	5D	1000					2400
2.TERRAIN	420030.00N/0850518.00W		1007 (1000)								AS1500	2500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM WIREP TO UKANE

<u>RNP</u>	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (26-002144)	420108.00N/0851950.00W		1394	500	50	5D	1000				AT106	2500
3.TERRAIN	420224.70N/0852616.10W		947 (900)								AS1500	2400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM
RESGY

TO
UKANE

RNP	DISTANCE 9.20	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
4.SPOT ELEV	420224.70N/0852616.10W		1147	1000	125	6E	1000				AT353	2500
5.TERRAIN	420224.70N/0852616.10W		947 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
UKANE (IF/IAF)

TO
ZUGDA

RNP	DISTANCE 6.13	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.TOWER (26-002362)	415503.17N/0852428.94W		1215	500	50	5D	500				DG785	2500
7.TERRAIN	415645.00N/0852406.00W		905 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

ZUGDA

TO

RW19

<u>RNP</u>	<u>DISTANCE</u> 4.87	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 320			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.TREE (KIRST0683)	414916.99N/0852632.76W		942	20	3	1A		34:1			MA70	1235

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

ZUGDA

TO

RW19

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	4.87		DA		314							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9.TREE (KIRST0877)	415009.68N/0852617.04W		1061	20	3	1A		PDA				1229

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: LNAV

FROM

ZUGDA

TO

RW19

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.87		RW19	485								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.AAO	415259.73N/0852915.96W		1149	50	20	2C	250					1400

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

UKANE

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
		P-5										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TOWER (26-002169)	420756.00N/0852900.00W		1191	50	20	2C	1000					2200
12.TERRAIN	420942.00N/0852545.00W		964 (1000)								AS1500	2500

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM
DA

TO
JETKI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1010					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.TREE (KIRST0793)	414949.70N/0852629.51W		1014	20	3	1A		ASC				3000
14.TOWER (18-002476)	413746.80N/0852451.40W		1331	250	50	4D						1400
15.TERRAIN	413930.00N/0852103.00W		1018 (1000)								AS1500	2500

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM
DA

TO
JETKI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1061					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
14.TOWER (18-002476)	413746.80N/0852451.40W		1331	250	50	4D						1400
15.TERRAIN	413930.00N/0852103.00W		1018 (1000)								AS1500	2500

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW19

TO

JETKI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1280					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
14.TOWER (18-002476)	413746.80N/0852451.40W		1331	250	50	4D						1400
15.TERRAIN	413930.00N/0852103.00W		1018 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (26-020022)	414821.55N/0852441.56W	1.30	515	1130	50	20	2C	300			1440
CATEGORY B											
TOWER (26-020022)	414821.55N/0852441.56W	1.84	515	1130	50	20	2C	300			1440
CATEGORY C											
TOWER (26-000357)	414641.00N/0852436.00W	2.89	695	1301	50	3	2A	300			1620
CATEGORY D											
TOWER (26-000357)	414641.00N/0852436.00W	3.78	695	1301	50	3	2A	300			1620

CIRCLING REMARKS:



MSA

CENTER

RW19

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (26-001559)	415627.00N/0854927.00W	297	18.6	1489	250	20	4C	1000			2500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

100' VEGETATION USED PER FPT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
AZO APP CON, ZAU ARTCC, LAN FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KIRS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KIRS	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KHAI	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHAI	<u>DISTANCE</u> 11.17	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 41

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KIRS 925, KHAI 821
RA = 40.2

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW06 - MIRL (PCL)		BSC-G	
RW24 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		BSC-G	
RW01 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW19 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 908.2	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 27.2
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, LNAV		
34:1			
1014 TREE (26-099920) 414946.18N/0852631.82W (12.28)		1011 TREE (26-047442) 414946.45N/0852629.73W (8.51)	
1012 TREE (26-047445) 414948.23N/0852631.80W (4.18)		1014 TREE (26-028786) 414949.02N/0852628.12W (3.87)	
1008 TREE (26-099574) 414947.21N/0852629.59W (3.24)		1014 TREE (26-047334) 414949.70N/0852629.51W (1.83)	
1002 TREE (26-028791) 414945.96N/0852630.23W (0.96)			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NOT DEVELOPED PER FPT.

LPV INTERMEDIATE CONTROLLING OBSTACLE: 26-003351, 1070 MSL TOWER, 2A.

PGQS PENTRATION: NAVAID (KIRST0659, 910 MSL, 414913.21N-0852628.77W, 40.01 FT FROM THLD) BARO/VNAV NA. (FPT NOTIFIED).

NO ADDITIONAL AIRSPACE REQUIRED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

<div>AIRPORT ID</div> <div>KIRS</div>	<div>PROCEDURE NAME</div> <div>RNAV (GPS) RWY 19</div>	<div>AMDT NO.</div> <div>1C</div>	<div>CITY</div> <div>STURGIS</div>	<div>STATE</div> <div>MI</div>	<div>AIRPORT ELEVATION</div> <div>925</div>	<div>FACILITY</div> <div>RNAV</div>
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.30
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	179.69
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1000
DISTANCE FROM	THLD	TO 1500FT POINT	4.87
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.14
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	179.69
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD
COORDINATES
(IF STR-IN)

414912.81N/0852627.34W

ARP COORDINATES

414847.84N/0852620.26W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 1 DISTANCE 0.45 NM

FAF
COORDINATES

415405.31N/0852629.46W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY

8

CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> VICTOR BOONE	<u>OFFICE</u> AJV-A432	<u>DATE</u> 07/14/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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