

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</u> SIOUX GATEWAY/BRIG GEN BUD DAY FIELD	<u>AIRPORT ID</u> KSUX	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> SIOUX CITY	<u>STATE</u> IA
<u>AIRPORT ELEVATION</u> 1098	<u>TDZE</u> 1098	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 05/26/2016	<u>MAG VAR</u> 3E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 088/30 CW 268/30	NOPT	088/4 CW 268/4		4400
2. 088/4 CW 268/4		JMBON	IF/IAF	3400
3. 268/30 CW 088/30	PT	268/4 CW 088/4		4400
4. 268/4 CW 088/4		JMBON	IAF	3400

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>
JMBON	IF/IAF	AKJAW		TF	FB	1.00	177.68	6.00	2900
AKJAW	FAF	WEPDA/2.30 NM TO RW17		TF	FB	0.30	177.68	3.19	
WEPDA/2.30 NM TO RW17		RW17	MAP	TF	FO	0.30	177.68	2.30	
RW17	MAP	1364 MSL		CA			177.68		
1364 MSL		POGAE		DF	FO	1.00			3200

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3200 DIRECT POGAE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

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

2. HOLD N JMBON, RT, 177.68 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 177.68 FAF: AKJAW DIST FAF TO MAP: 5.49 DIST FAF TO THLD: 5.49

4. MIN ALT: JMBON 3400, AKJAW 2900, WEPDA/2.30 NM TO RW17 1880*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 266 HAT: 0.67 GS ANT:

6. MIN GP INCPT: 2900 GP ALT AT FAF : AKJAW 2900 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 54.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.10 NM TO RW17*
*LNAV ONLY
WAAS CHANNEL #77838
REFERENCE PATH ID: W17A
CHART FAS OBST: 1252 ELEVATOR 422610N/0962258W.
CHART: 1361 TOWER 422715N/0962219W.
HOLD S, RT, 357.68 INBOUND
LTP HAE: 308.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2

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	1364	7/8	266	1364	7/8	266	1364	7/8	266	1364	7/8	266			
LNAV/VNAV DA	1531	1 3/8	433	1531	1 3/8	433	1531	1 3/8	433	1531	1 3/8	433			
LNAV MDA	1520	1	422	1520	1	422	1520	1 1/4	422	1520	1 1/4	422			
CIRCLING	1640	1	542	1700	1	602	1700	1 3/4	602	1840	2 1/2	742			



CHANGES - REASONS

- 1. AIRPORT NAME CHANGED FROM SIOUX GATEWAY/COL BUD DAY FIELD TO SIOUX GATEWAY/BRIG GEN BUD DAY FIELD - POSTHUMOUS PROMOTION.
- 2. PROFILE SECTION, LINE 2, ADDED MAXIMUM HOLDING ALTITUDE - CURRENT DOCUMENTATION POLICY.
- 3. PROFILE SECTION, LINE 7, ADDED "20:1 IS CLEAR" - CURRENT DOCUMENTATION POLICY.
- 4. REPLACED DME/DME NOTE WITH PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION POLICY.
- 5. ADDED RUNWAY NUMBER TO HELICOPTER VISIBILITY NOTE - CURRENT DOCUMENTATION POLICY.
- 6. REMOVED FAHRENHEIT VALUES FROM BARO-VNAV NOTE - CURRENT DOCUMENTATION POLICY.
- 7. MOVED BACKUP ALTIMETER NOTES TO FORM 8260-9 - CURRENT DOCUMENTATION POLICY.
- 8. ALTERNATE MINIMUMS, REMOVED "@NA WHEN LOCAL WEATHER NOT AVAILABLE" - NOT APPLICABLE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZMP, SUX ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

DEVELOPED BY

RUSS ROSLEWSKI

Digitally signed by
RUSSELL ROSLEWSKI

CASIMIR L TABAKA

Mar 21, 2019

OFFICE

AJV-A421

DATE

01/30/2019

APPROVED BY

MARLON ROBINSON

Digitally signed by
CASIMIR L TABAKA

Mar 21, 2019

OFFICE

AJV-A420

DATE

TITLE
MANAGER



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
SIoux GATeway/BRIG GEN BUD DAY FIELD	KSUX	RNAV (GPS) RWY 17	1A	SIoux CITY	IA

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSUX
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	422453.0220N
LTP/FTP LONGITUDE	0962254.8935W
LTP/FTP ELLIPSOIDAL HEIGHT	+03084
FPAP LATITUDE	422323.8980N
FPAP LONGITUDE	0962256.3205W
THRESHOLD CROSSING HEIGHT (TCH)	00054.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0736
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	46C0D1AE
---------------	----------

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03345
FPAP ORTHOMETRIC HEIGHT	+03345



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

<u>AIRPORT</u> SIOUX GATEWAY/BRIG GEN BUD DAY FIELD	<u>AIRPORT ID</u> KSUX	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>AMDT NO.</u> 1A	<u>CITY</u> SIOUX CITY	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 1098	<u>FACILITY</u> RNAV
---	---------------------------	--	-----------------------	---------------------------	--------------------	----------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
088/30 CW 268/30

TO
088/4 CW 268/4

<u>RNP</u>	<u>DISTANCE</u>	<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 (19-000403)	423512.00N/0961358.00W	3370	500	125	5E	1000					4400	
2.TERRAIN	423654.00N/0965957.00W	1690 (1700)								AS1500	3200	

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
088/4 CW 268/4

TO
JMBON

<u>RNP</u>	<u>DISTANCE</u>	<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>	
3.TOWER (19-000631)	423455.00N/0962636.00W	1889	500	50	5D	1000				AT511	3400	
4.TERRAIN	423745.00N/0962624.00W	1503 (1500)								AS1500	3000	

COMPUTATIONS

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

SEGMENT REMARKS:



FACILITY
RNAV



MISSED APPROACH : LNAV

FROM

RW17

TO

POGAE

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							1420				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3200
12.TOWER (31-001024)	421029.00N/0962313.00W	1885	500	50	5D	1000					2900
13.TERRAIN	421027.00N/0962548.00W	1457 (1500)								AS1500	3000

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											
14.POLE (19-000534)	422434.00N/0962104.00W	1.30	542	1326	20	10	1B	300			1640
CATEGORY B											
15.TREE (KSUXT0693)	422531.65N/0962042.35W	1.84	602	1387	20	10	1B	300			1700
CATEGORY C											
16.TOWER (19-026545)	422737.29N/0962216.51W	2.90	602	1400	20	3	1A	300			1700
CATEGORY D											
17.AAO	422812.00N/0962030.00W	3.79	742	1529	50	20	2C	300			1840

CIRCLING REMARKS:



RADIUS

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



AIRPORT SIOUX GATEWAY/BRIG GEN BUD DAY FIELD	AIRPORT ID KSUX	PROCEDURE NAME RNAV (GPS) RWY 17	AMDT NO. 1A	CITY SIOUX CITY	STATE IA	AIRPORT ELEVATION 1098	FACILITY RNAV
34:1							
1156 TREE (KSUXT0134) 422508.51N/0962258.67W (18.37)			1157 TREE (KSUXT0152) 422509.01N/0962256.12W (17.82)				
1157 TREE (KSUXT0159) 422509.12N/0962257.45W (17.52)			1151 TREE (KSUXT0114) 422507.49N/0962259.18W (16.42)				
1157 TREE (KSUXT0193) 422509.96N/0962254.37W (14.94)			1160 TREE (KSUXT0218) 422511.06N/0962258.66W (14.78)				
1156 TREE (KSUXT0186) 422509.73N/0962259.64W (14.76)			1157 TREE (KSUXT0201) 422510.22N/0962254.32W (14.17)				
1152 TREE (KSUXT0142) 422508.81N/0962258.33W (13.47)			1153 TREE (KSUXT0162) 422509.18N/0962258.35W (13.37)				
1153 TREE (KSUXT0181) 422509.59N/0962254.96W (12.06)			1152 TREE (KSUXT0169) 422509.43N/0962258.58W (11.63)				
1151 TREE (KSUXT0163) 422509.17N/0962256.21W (11.34)			1148 TREE (KSUXT0135) 422508.50N/0962257.74W (10.38)				
1147 TREE (KSUXT0132) 422508.40N/0962258.51W (9.69)			1150 TREE (KSUXT0183) 422509.66N/0962258.51W (8.94)				
1148 TREE (KSUXT0153) 422509.05N/0962258.69W (8.76)			1149 TREE (KSUXT0182) 422509.62N/0962254.14W (7.95)				
1146 TREE (KSUXT0140) 422508.63N/0962253.23W (7.87)			1147 TREE (KSUXT0154) 422509.03N/0962256.16W (7.76)				
1166 TREE (KSUXT0326) 422515.51N/0962259.47W (7.55)			1147 TREE (KSUXT0168) 422509.33N/0962256.34W (6.87)				
1147 TREE (KSUXT0173) 422509.41N/0962254.81W (6.59)			1149 TREE (KSUXT0202) 422510.44N/0962258.17W (5.61)				
1158 TREE (KSUXT0259) 422513.49N/0962256.90W (5.50)			1147 TREE (KSUXT0195) 422510.03N/0962258.69W (4.85)				
1153 TREE (KSUXT0239) 422512.06N/0962258.41W (4.79)			1165 TREE (KSUXT0387) 422516.24N/0962256.70W (4.31)				
1145 TREE (KSUXT0188) 422509.79N/0962254.50W (3.45)			1150 TREE (KSUXT0228) 422511.53N/0962258.39W (3.37)				
1165 TREE (KSUXT0411) 422516.53N/0962251.54W (3.31)			1142 TREE (KSUXT0151) 422508.99N/0962258.45W (2.94)				
1148 TREE (KSUXT0223) 422511.26N/0962258.84W (2.19)			1146 TREE (KSUXT0209) 422510.74N/0962254.38W (1.62)				
1149 TREE (KSUXT0232) 422511.79N/0962258.85W (1.61)			1144 TREE (KSUXT0197) 422510.14N/0962258.44W (1.51)				
1146 TREE (KSUXT0210) 422510.77N/0962252.99W (1.49)			1145 TREE (KSUXT0205) 422510.54N/0962253.19W (1.18)				
1146 TREE (KSUXT0215) 422510.90N/0962254.56W (1.15)			1168 TREE (KSUXT0515) 422518.31N/0962248.99W (0.94)				
1142 TREE (KSUXT0185) 422509.70N/0962258.33W (0.82)			1152 TREE (KSUXT0251) 422513.09N/0962259.14W (0.75)				
1153 TREE (KSUXT0257) 422513.48N/0962300.65W (0.63)			1149 TREE (KSUXT0240) 422512.14N/0962254.01W (0.44)				
1148 TREE (KSUXT0234) 422511.85N/0962258.47W (0.42)			1158 TREE (KSUXT0306) 422515.21N/0962257.17W (0.38)				
1139 TREE (KSUXT0146) 422508.81N/0962254.79W (0.38)			1146 TREE (KSUXT0221) 422511.17N/0962254.80W (0.35)				
1139 TREE (KSUXT0149) 422508.86N/0962256.37W (0.27)			1136 TREE (KSUXT0121) 422507.86N/0962254.46W (0.20)				
1162 TREE (KSUX0024) 422516.59N/0962251.48W (0.13)			1136 TREE (KSUXT0122) 422507.89N/0962254.02W (0.10)				
1138 TREE (KSUXT0138) 422508.56N/0962252.23W (0.05)							



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
SIOUX GATEWAY/BRIG GEN BUD DAY FIELD	KSUX	RNAV (GPS) RWY 17	1A	SIOUX CITY	IA	1098	RNAV

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FOR CONTINGENCY BACKUP ALTIMETER USE ONLY:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LE MARS ALTIMETER SETTING AND INCREASE ALL DA 70 FEET AND LPV ALL CATS VISIBILITY 1/8 MILE. INCREASE ALL MDA 80 FEET AND LNAV CATS C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C/D VISIBILITY 1/4 MILE.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LE MARS ALTIMETER SETTING.

PDF EDIT:
MISSED APPROACH, REMOVED OBSTACLE 8 FROM LNAV/VNAV AND LNAV SEGMENTS, LEAVING "ASC" AND "3200" - OBSTACLE ONLY PENETRATES LPV MISSED SURFACE.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1361 TOWER (19-001305) 422715.00N/0962219.00W.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> SIOUX GATEWAY/BRIG GEN BUD DAY FIELD	<u>AIRPORT ID</u> KSUX	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>AMDT NO.</u> 1A	<u>CITY</u> SIOUX CITY	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 1098	<u>FACILITY</u> RNAV
---	---------------------------	--	-----------------------	---------------------------	--------------------	----------------------------------	-------------------------

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	3.43
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.69
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	180.67
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1319
DISTANCE FROM	THLD	TO 1500FT POINT	11.2
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	8.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	180.67
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1450

THRESHOLD
COORDINATES
(IF STR-IN)

422453.02N/0962254.89W

ARP COORDINATES

422409.40N/0962303.70W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 31 DISTANCE 0.80 NM

FAF
COORDINATES

423022.53N/0962249.61W

FIX NAME
COORDINATES

IF JMBON: 423622.62N/0962243.81W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY
22
CHECKED

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

Electronic Version

Page 12 of 13

<u>AIRPORT</u> SIOUX GATEWAY/BRIG GEN BUD DAY FIELD	<u>AIRPORT ID</u> KSUX	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>AMDT NO.</u> 1A	<u>CITY</u> SIOUX CITY	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 1098	<u>FACILITY</u> RNAV
---	---------------------------	--	-----------------------	---------------------------	--------------------	----------------------------------	-------------------------

PART E: PREPARED BY

<u>NAME</u> RUSS ROSLEWSKI	<u>OFFICE</u> AJV-A421	<u>DATE</u> 01/30/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
-------------------------------	---------------------------	---------------------------	---

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

Electronic Version

QUALITY
22
CHECKED

Page 13 of 13