

<b>RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33</b>				Bearings, headings, courses, 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 in feet RVR.											
<b>TERMINAL ROUTES</b>										<b>MISSED APPROACH</b>					
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW31  CLIMB TO 3500 DIRECT VOGYU AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD NW, RT, 129.56 INBOUND. FAS OBST: 1289 AAO 422118N/0961900W DISTANCE TO THLD FROM 200 HATH: 0.50 NM. CHART VDP AT 1.29 MILES TO RW31* *LNAV ONLY. WAAS CHANNEL # 90211 REFERENCE PATH ID: W31A CHART: CIRCLING ICON LTP HAE: 307.1 M											
CUSHO	USOSE (FB)	239.32 / 16.40	3900												
DECKA	ZAGTA (FB)	353.91 / 15.22	3900												
SUX VORTAC	WAVUK (FO)	127.33 / 8.41	3900												
USOSE (IAF)	WAVUK (NOPT) (FB)	219.87 / 5.00	3900												
ZAGTA (IAF)	WAVUK (NOPT) (FB)	039.77 / 5.00	3900												
WAVUK (IF/IAF)	TOVUY (FB)	309.82 / 6.55	2900												
TOVUY (FAF)	RW31 (MAP) (FO)	309.75 / 5.45													
(SEE FORM 8260-10)															
1. PT <u>      </u> SIDE OF COURSE <u>      </u> OUTBOUND <u>      </u> FT WITHIN <u>      </u> MILES OF <u>      </u> (IAF)										MAG VAR: 6E  EPOCH YEAR: 1985					
2. HOLD SE WAVUK, RT, 309.82 INBOUND, 3900 FT. IN LIEU OF PT (IAF)															
3. FAC: 309.75 FAF: TOVUY DIST FAF TO MAP: 5.45 THLD: 5.45															
4. MIN. ALT: WAVUK 3900, TOVUY 2900															
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:															
6. MIN GS INCPT: 2900 GS ALT AT: TOVUY 2900 OM: MM: IM:															
7. GS ANGLE: 3.00 TCH: 42.7 34:1 IS CLEAR															
8. MSA FROM: RW31 4400															
<b>MINIMUMS</b>															
<b>TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT</b>							<b>ALTERNATE: N A</b>		<b>STANDARD @</b>						
<b>CATEGORY =====&gt;</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1293	2400	200	1293	2400	200	1293	2400	200	1293	2400	200	1293	2400	200
LNAV/VNAV DA	1593	5000	500	1593	5000	500	1593	5000	500	1593	5000	500	1593	5000	500
LNAV MDA	1560	2400	467	1560	2400	467	1560	5000	467	1560	5000	467	1560	5000	467
CIRCLING	1640	1	542	1700	1	602	1700	1 3/4	602	1840	2 1/2	742	2000	3	902
<b>NOTES:</b> CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LE MARS ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSi AND RNAV GLIDE PATH NOT COINCIDENT. (SEE FORM 8260-10)															
CITY AND STATE  SIOUX CITY, IA		ELEVATION: 1098 THRE: 1093 AIRPORT NAME:  SIOUX GATEWAY/COL. BUD DAY FIELD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG-B  22 AUGUST 2013						SUP: AMDT: ORIG-A DATED 05/03/2012			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW31 (MAP)	1293 MSL	309.75	
1293 MSL	VOGYU (FO)		3500

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SUX VORTAC AIRWAY RADIALS 105 CW 150.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LE MARS ALTIMETER SETTING AND INCREASE ALL DA 70 FEET AND ALL MDA 80 FEET, INCREASE LNAV/VNAV ALL CATS AND LNAV CATS C/D/E VISIBILITY TO RVR 6000, INCREASE CIRCLING CATS C/D VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR INCREASE LPV CAT E VISIBILITY TO RVR 4000; INCREASE LNAV/VNAV CAT E AND LNAV CATS C/D/E VISIBILITY TO 1 3/8 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING LE MARS ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500; INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 MILE; INCREASE LNAV CATS C/D/E VISIBILITY TO 1 5/8 MILE.

QUALITY  
4  
CHECKED

CITY AND STATE  
SIOUX CITY, IA

ELEVATION: 1098 THRE: 1093  
AIRPORT NAME:  
SIOUX GATEWAY/COL. BUD DAY FIELD

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 31, ORIG-B  
22 AUGUST 2013

SUP:  
AMDT: ORIG-A  
DATED: 05/03/2012

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSUX
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	422329.4490N
LTP/FTP LONGITUDE	0962227.9195W
LTP/FTP ELLIPSOIDAL HEIGHT	+03071
FPAP LATITUDE	422436.0800N
FPAP LONGITUDE	0962355.7000W
THRESHOLD CROSSING HEIGHT (TCH)	00042.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0128
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

**CRC REMAINDER**

D378E938

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03333
FPAP ORTHOMETRIC HEIGHT	+03333

QUALITY  
4  
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CITY AND STATE

SIOUX CITY, IA

ELEVATION: 1098

THRE: 1093

AIRPORT NAME:

SIOUX GATEWAY/COL. BUD DAY FIELD

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, ORIG-B

22 AUGUST 2013

SUP:

AMDT: ORIG-A

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## RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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 in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSUXK3FR31	ACUSHO	010CUSHOK3EA0E	IF						18000		A JS	
SUSAP	KSUXK3FR31	ACUSHO	020USOSEK3EA0E	A 020TF		23930164	+	03900				A JS	
SUSAP	KSUXK3FR31	ACUSHO	030WAVUKK3EA0EE	B 010TF		21990050	+	03900				A JS	
SUSAP	KSUXK3FR31	ADECKA	010DECKAK3EA0E	IF						18000		A JS	
SUSAP	KSUXK3FR31	ADECKA	020ZAGTAK3EA0E	A 020TF		35390152	+	03900				A JS	
SUSAP	KSUXK3FR31	ADECKA	030WAVUKK3EA0EE	B 010TF		03980050	+	03900				A JS	
SUSAP	KSUXK3FR31	ASUX	010SUX K3D 0V	IF						18000		A JS	
SUSAP	KSUXK3FR31	ASUX	020WAVUKK3EA0EY	020TF		12730084	+	03900				A JS	
SUSAP	KSUXK3FR31	ASUX	030WAVUKK3EA0EE	AR HF		30980070	+	03900				A JS	
SUSAP	KSUXK3FR31	R	010WAVUKK3EA0E	I IF			+	03900		18000		A JS	
SUSAP	KSUXK3FR31	R	020TOVUYK3EA1E	F 051TF		30980066	+	02900			RW31 K3PGA	JS	
SUSAP	KSUXK3FR31	R	020TOVUYK3EA2WALPV		ALNAV/VNAV ALNAV							JS	
SUSAP	KSUXK3FR31	R	030RW31 K3PGOGY	M 031TF		30980055		01136		-300		A JS	
SUSAP	KSUXK3FR31	R	040	0 M CA		3098	+	01293				A JS	
SUSAP	KSUXK3FR31	R	050VOGYUK3EA0EY	DF			+	03500				A JS	
SUSAP	KSUXK3FR31	R	060VOGYUK3EA0EE	R HM		12960070	+	03500				A JS	

[illegible]

CITY AND STATE  
SIOUX CITY, IA

ELEVATION: 1098      THRE: 1093  
AIRPORT NAME:  
SIOUX GATEWAY/COL. BUD DAY FIELD

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
RNAV (GPS) RWY 31, ORIG-B  
22 AUGUST 2013

SUP:	
AMDT:	ORIG-A
DATED:	05/03/2012

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - FAR PART 97.33**

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SUSAP KSUXK3GRW31 0090023097 N42232945W096222792+0000 +0307101093000043150I

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

SUSAP KSUXK3PR31 RW31 001 0000W31A0N4223294490W09622279195+0307103000N4224360800W09623557000106750128000427F400350D378E938  
 SUSAP KSUXK3PR31 RW31 002E +03332+03333LPV 90211

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

SUSAP KSUXK3SRW31 K3PG 0 18018004425 M

QUALITY  
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CHECKED

CITY AND STATE SIOUX CITY, IA	ELEVATION: 1098	THRE: 1093	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG-B 22 AUGUST 2013	SUP:
	AIRPORT NAME: SIOUX GATEWAY/COL. BUD DAY FIELD				AMDT: ORIG-A
					DATED: 05/03/2012

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CUSHO	CUSHO	010		IF		FB					
	CUSHO	USOSE	020	IAF	TF		FB	2.0	239.3 (245.3T)	016.4	AA 03900	
	CUSHO	WAVUK	030		TF		FB	1.0	219.9 (225.9T)	005.0	AA 03900	
	DECKA	DECKA	010		IF		FB					
	DECKA	ZAGTA	020	IAF	TF		FB	2.0	353.9 (359.9T)	015.2	AA 03900	
	DECKA	WAVUK	030		TF		FB	1.0	039.8 (045.8T)	005.0	AA 03900	
	SUX	SUX	010		IF		FB					
	SUX	WAVUK	020		TF		FO	2.0	127.3 (133.3T)	008.4	AA 03900	
	SUX	WAVUK	030	IAF	HF	R	FO		309.8 (315.8T)	007.0	AA 03900	
		WAVUK	010	FACF	IF		FB				AA 03900	
		TOVUY	020	FAF	TF		FB	0.5	309.8 (315.8T)	006.6	AA 02900	
		RW31	030	MAP	TF		FO	0.3	309.8 (315.8T)	005.5	AT 01136	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		309.8 (315.8T)		AA 01293	
	VOGYU	050		DF		FO				AA 03500	
	VOGYU	060		HM	R	FO		129.6 (135.6T)	007.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	SUX	N422040.26	W0961925.12	N4220.671	W09619.419
	CUSHO	N422515.39	W0954615.42	N4225.257	W09546.257
	DECKA	N415610.45	W0961558.17	N4156.174	W09615.970
	TOVUY	N421935.17	W0961719.86	N4219.586	W09617.331
	USOSE	N421822.54	W0960620.77	N4218.376	W09606.346
	VOGYU	N423224.95	W0963415.49	N4232.416	W09634.258
	WAVUK	N421453.49	W0961110.72	N4214.892	W09611.179
	ZAGTA	N421124.23	W0961600.14	N4211.404	W09616.002
	RW31	N422329.45	W0962227.92	N4223.491	W09622.465

RUNWAY DATA	THRESHOLD	
RWY	ELEVATION	TCH
RW31	01093	43

QUALITY  
4  
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CITY AND STATE <b>SIoux CITY, IA</b>	ELEVATION: <b>1098</b>	THRE: <b>1093</b>	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: <b>SIoux GATEWAY/COL. BUD DAY FIELD</b>		<b>RNAV</b>	<b>RNAV (GPS) RWY 31, ORIG-B</b>	AMDT: <b>ORIG-A</b>
				22 AUGUST 2013	DATED: <b>05/03/2012</b>