

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				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.								
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION												
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW29 CLIMB TO 3700 THEN CLIMBING RIGHT TURN TO 7000 DIRECT ZAVLI AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 208.64 INBOUND. FAS OBST: 3339 AAO 442226N/1031816W DISTANCE TO THLD FROM 301 HATH: 0.79 NM. WAAS CHANNEL # 90321 REFERENCE PATH ID: W29A LTP HAE: 961.8 M								
ZAVLI	NOMLE (FB)	247.01 / 21.35	7000									
RAP VORTAC	NOMLE (FB)	341.95 / 18.09	7000									
NOMLE (IAF)	NIFER (FB)	291.67 / 3.99	6000									
NIFER (IF)	OQWIK (FB)	291.62 / 6.35	4900									
OQWIK (FAF)	RW29 (MAP) (FO)	291.53 / 5.16	3700									
RW29 (MAP)	3700 MSL	291.53	7000									
3700 MSL	ZAVLI (FO)											
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT NOMLE 3. FAC: <u>291.53</u> FAF: <u>OQWIK</u> DIST FAF TO MAP: <u>5.16</u> THLD: <u>5.16</u> 4. MIN. ALT: <u>NOMLE 7000, NIFER 6000, OQWIK 4900</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCP: <u>4900</u> GS ALT AT: <u>OQWIK 4900</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>50.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW29 8600</u>												
				MAG VAR: 11E EPOCH YEAR: 1995								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: NA <input checked="" type="checkbox"/> X								
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
*LPV DA	3509	1	301	3509	1	301	3509	1	301	NA		
LPV DA	3509	1	301	3509	1	301	4050	3	842	NA		
LNAV/VNAV DA	3509	1	301	3509	1	301	3963	3	755	NA		
LNAV MDA	3640	1	432	3640	1	432	4280	3	1072	NA		
CIRCLING	3700	1	456	3880	1	636	4280	3	1036	NA		
NOTES: CHART NOTE: *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 364 FEET PER NM TO 4900. CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 3244 THRE: 3208		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
STURGIS, SD		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 29, AMDT 1			AMDT: ORIG			
		STURGIS MUNI				2 MAY 2013			DATED 06/30/2011			



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

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NOTES, (CONT.):

CHART NOTE: USE ELLSWORTH AFB ALTIMETER SETTING, WHEN NOT RECEIVED, USE SPEARFISH ALTIMETER SETTING AND INCREASE ALL DA 87 FEET AND ALL MDA 100 FEET AND INCREASE LPV CAT A/B VISIBILITY 1/4 MILE, AND LPV (WITH CLIMB GRADIENT) CAT C VISIBILITY 1/2 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED

CHART NOTE: WHEN RWY 29 VGS I INOPERATIVE, STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RAP VORTAC ON AIRWAY RADIALS 252 CW 072.



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				AMDT: ORIG
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**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	49B
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	442451.3795N
LTP/FTP LONGITUDE	1032201.9865W
LTP/FTP ELLIPSOIDAL HEIGHT	+09618
FPAP LATITUDE	442539.1900N
FPAP LONGITUDE	1032346.9000W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

5AA684E7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+09777
FPAP ORTHOMETRIC HEIGHT	+09777



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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP 49B K3FR29	ARAP	010RAP	K3D 0V	IF					18000			A JS	
SUSAP 49B K3FR29	ARAP	020NOMLEK3EA0E	A 020TF			34200181	+	07000				A JS	
SUSAP 49B K3FR29	ARAP	030NIFERK3EA0EE	B 010TF			29170040	+	06000				A JS	
SUSAP 49B K3FR29	AZAVLI	010ZAVLIK3EA0E	IF						18000			A JS	
SUSAP 49B K3FR29	AZAVLI	020NOMLEK3EA0E	A 020TF			24700214	+	07000				A JS	
SUSAP 49B K3FR29	AZAVLI	030NIFERK3EA0EE	B 010TF			29170040	+	06000				A JS	
SUSAP 49B K3FR29	R	010NIFERK3EA0E	I IF						18000			A JS	
SUSAP 49B K3FR29	R	020OQWIKK3EA1E	F 051TF			29160064	+	04900			RW29	K3PGA	JS
SUSAP 49B K3FR29	R	020OQWIKK3EA2WALPV		ALNAV/VNAV	ALNAV								JS
SUSAP 49B K3FR29	R	030RW29	K3PG0GY M 031TF			29150052		03258		-300			A JS
SUSAP 49B K3FR29	R	040	0 M CA			2915	+	03700					A JS
SUSAP 49B K3FR29	R	050ZAVLIK3EA0EY	R DF					07000					A JS
SUSAP 49B K3FR29	R	060ZAVLIK3EA0EE	R HM			20860070	+	07000					A JS

[illegible][illegible]

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[illegible]

QUALITY
Control

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RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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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
	RAP	RAP	010		IF		FB					
	RAP	NOMLE	020	IAF	TF		FB	2.0	342.0 (353.0T)	018.1	AA 07000	
	RAP	NIFER	030		TF		FB	1.0	291.7 (302.7T)	004.0	AA 06000	
	ZAVLI	ZAVLI	010		IF		FB					
	ZAVLI	NOMLE	020	IAF	TF		FB	2.0	247.0 (258.0T)	021.4	AA 07000	
	ZAVLI	NIFER	030		TF		FB	1.0	291.7 (302.7T)	004.0	AA 06000	
		NIFER	010	FACF	IF		FB				AA 06000	
		OQWIK	020	FAF	TF		FB	0.5	291.6 (302.6T)	006.4	AA 04900	
		RW29	030	MAP	TF		FO	0.3	291.5 (302.5T)	005.2	AT 03258	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		291.5 (302.5T)		AA 03700	
	ZAVLI	050		DF	R	FO				AA 07000	
	ZAVLI	060		HM	R	FO		208.6 (219.6T)	007.0	AA 07000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	RAP	N435833.70	W1030044.43	N4358.562	W10300.741
	NIFER	N441839.88	W1030830.40	N4418.665	W10308.507
	NOMLE	N441630.77	W1030349.76	N4416.513	W10303.829
	OQWIK	N442205.18	W1031558.09	N4422.086	W10315.968
	ZAVLI	N442100.58	W1023446.05	N4421.010	W10234.768
	RW29	N442451.38	W1032201.99	N4424.856	W10322.033

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW29	03208	50



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