

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: RW33 CLIMB TO 3000 DIRECT FAMMS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 150.85 INBOUND. DISTANCE TO THLD FROM 250 HATH: 0.61 NM. CHART VDP AT 1.09 MILES TO RW33* *LNAV ONLY. WAAS CHANNEL # 77930 REFERENCE PATH ID: W33A LTP HAE: 267.7 M													
GUVEY	COINS (FB)	062.82 / 13.47	3000														
BANEY	COINS (FB)	139.50 / 17.63	3000														
PANIC	BRUKS (FB)	178.04 / 20.67	3000														
BRUKS (IAF)	JALIS (NOPT) (FB)	241.17 / 9.25	3000														
COINS (IAF)	JALIS (NOPT) (FB)	060.79 / 9.25	3000														
JALIS (IF/IAF)	SATYO (FB)	331.02 / 6.86	2500														
SATYO (FAF)	ZAKPU/2.50 NM TO RW33 (FB)	330.97 / 2.14															
(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)																	
2. HOLD SE JALIS, RT, 331.02 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																	
3. FAC: <u>330.97</u> FAF: <u>SATYO</u> DIST FAF TO MAP: <u>4.64</u> THLD: <u>4.64</u>																	
4. MIN. ALT: <u>JALIS 3000, SATYO 2500, ZAKPU/2.50 NM TO RW33 1800*</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 INCPT: <u>2500</u> GS ALT AT: <u>SATYO 2500</u> OM: <u> </u> MM: <u> </u> IM: <u> </u>																	
7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS NOT CLEAR																	
8. MSA FROM: <u>RW33 3100</u>																	
MINIMUMS																	
TAKEOFF: <u>SEE FAA FORM 8260-15A FOR THIS AIRPORT</u>				ALTERNATE: <u>N A</u>		STANDARD @											
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	DH/MDA	VIS	HAT/HAA		
LPV DA	1216	3/4	250	1216	3/4	250	1216	3/4	250	1216	3/4	250					
LNAV/VNAV DA	1250	7/8	284	1250	7/8	284	1250	7/8	284	1250	7/8	284					
LNAV MDA	1340	1	374	1340	1	374	1340	1	374	1340	1	374					
CIRCLING	1520	1	552	1520	1	552	1520	1 1/2	552	1560	2	592					
NOTES: CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 15 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. (SEE FORM 8260-10)																	
CITY AND STATE WAHPETON, ND				ELEVATION: 968 THRE: 966 AIRPORT NAME: HARRY STERN				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1 10 JANUARY 2013				SUP: AMDT: ORIG-A DATED 07/01/2010	



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
ZAKPU/2.50 NM TO RW33	RW33 (MAP) (FO)	330.96 / 2.50	
RW33 (MAP)	1216 MSL	330.96	
1216 MSL	FAMMS (FO)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PANIC ON V2 NORTHWEST BOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FERUG FALLS ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FT AND ALL VISIBILITY 3/8 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FERGUS FALLS ALTIMETER SETTING.

QUALITY
CHECKED

CITY AND STATE WAHPETON, ND	ELEVATION: 968 THRE: 966 AIRPORT NAME: HARRY STERN	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1 10 JANUARY 2013	SUP:
				AMDT: ORIG-A
				DATED: 07/01/2010

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

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBWP
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	461416.1930N
LTP/FTP LONGITUDE	0963610.6725W
LTP/FTP ELLIPSOIDAL HEIGHT	+02677
FPAP LATITUDE	461537.5200N
FPAP LONGITUDE	0963703.0200W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
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

408761CB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02945
FPAP ORTHOMETRIC HEIGHT	+02945

CITY AND STATE

WAHPETON, ND

ELEVATION: 968

THRE: 966

AIRPORT NAME:

HARRY STERN

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 33, AMDT 1

10 JANUARY 2013

SUP:

AMDT: ORIG-A

DATED: 07/01/2010

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KBWPK3FR33	ABANEY	010BANEYK3EA0E	IF						18000		A	JS
SUSAP	KBWPK3FR33	ABANEY	020COINSK3EA0E	A 020TF		13950176	+	03000				A	JS
SUSAP	KBWPK3FR33	ABANEY	030JALISK3EA0EE	B 010TF		06080093	+	03000				A	JS
SUSAP	KBWPK3FR33	AGUVEY	010GUVEYK3EA0E	IF						18000		A	JS
SUSAP	KBWPK3FR33	AGUVEY	020COINSK3EA0E	A 020TF		06280135	+	03000				A	JS
SUSAP	KBWPK3FR33	AGUVEY	030JALISK3EA0EE	B 010TF		06080093	+	03000				A	JS
SUSAP	KBWPK3FR33	AJALIS	010JALISK3EA0EE	AR HF		33100040	+	03000		18000		A	JS
SUSAP	KBWPK3FR33	APANIC	010PANICK3EA0E	IF						18000		A	JS
SUSAP	KBWPK3FR33	APANIC	020BRUKSK3EA0E	A 020TF		17800207	+	03000				A	JS
SUSAP	KBWPK3FR33	APANIC	030JALISK3EA0EE	B 010TF		24120093	+	03000				A	JS
SUSAP	KBWPK3FR33	R	010JALISK3EA0E	I IF			+	03000		18000		A	JS
SUSAP	KBWPK3FR33	R	020SATYOK3EA1E	F 051TF		33100069	+	02500			RW33	K3PGA	JS
SUSAP	KBWPK3FR33	R	020SATYOK3EA2WALPV		ALNAV/VNAV	ALNAV							JS
SUSAP	KBWPK3FR33	R	021ZAKPUK3EA0E	S 031TF		33100021	V	0180001817		-300		A	JS
SUSAP	KBWPK3FR33	R	030RW33	K3PGOGY M 031TF		33100025		01021		-300		A	JS
SUSAP	KBWPK3FR33	R	040	O M CA		3310	+	01216				A	JS
SUSAP	KBWPK3FR33	R	050FAMMSK3EA0EY	DF			+	03000				A	JS
SUSAP	KBWPK3FR33	R	060FAMMSK3EA0EE	R HM		15090040	+	03000				A	JS

[illegible]

CITY AND STATE WAHPETON, ND	ELEVATION: 968 THRE: 966	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 33, AMDT 1 10 JANUARY 2013	SUP:
	AIRPORT NAME: HARRY STERN	RNAV		AMDT: ORIG-A
				DATED: 07/01/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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[illegible]

CITY AND STATE
WAHPETON, ND

ELEVATION: 968 THRE: 966
AIRPORT NAME:
HARRY STERN

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 33, AMDT 1
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FAA FORM 8260 - 10 / April 2006 (Computer Generated)

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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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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BANEY	BANEY	010		IF		FB					
	BANEY	COINS	020	IAF	TF		FB	2.0	139.5 (144.5T)	017.6	AA 03000	
	BANEY	JALIS	030		TF		FB	1.0	060.8 (065.8T)	009.3	AA 03000	
	GUVEY	GUVEY	010		IF		FB					
	GUVEY	COINS	020	IAF	TF		FB	2.0	062.8 (067.8T)	013.5	AA 03000	
	GUVEY	JALIS	030		TF		FB	1.0	060.8 (065.8T)	009.3	AA 03000	
	JALIS	JALIS	010	IAF	HF	R	FO		331.0 (336.0T)	004.0	AA 03000	
	PANIC	PANIC	010		IF		FB					
	PANIC	BRUKS	020	IAF	TF		FB	2.0	178.0 (183.0T)	020.7	AA 03000	
	PANIC	JALIS	030		TF		FB	1.0	241.2 (246.2T)	009.3	AA 03000	
		JALIS	010	FACF	IF		FB				AA 03000	
		SATYO	020	FAF	TF		FB	0.5	331.0 (336.0T)	006.9	AA 02500	
		ZAKPU	021	SDF	TF		FB	0.3	331.0 (336.0T)	002.1	AA 01800	GS 01817
		RW33	030	MAP	TF		FO	0.3	331.0 (336.0T)	002.5	AT 01021	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		331.0 (336.0T)		AA 01216	
	FAMMS	050		DF		FO				AA 03000	
	FAMMS	060		HM	R	FO		150.9 (155.9T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BANEY	N461421.15	W0965614.90	N4614.353	W09656.248
	BRUKS	N460730.98	W0961717.61	N4607.516	W09617.294
	COINS	N455959.28	W0964133.65	N4559.988	W09641.561
	FAMMS	N462450.69	W0964300.47	N4624.845	W09643.008
	GUVEY	N455455.59	W0965927.29	N4554.927	W09659.455
	JALIS	N460346.13	W0962926.68	N4603.769	W09629.445
	PANIC	N462809.23	W0961543.02	N4628.154	W09615.717
	SATYO	N461001.83	W0963327.23	N4610.031	W09633.454
	ZAKPU	N461159.26	W0963442.63	N4611.988	W09634.711
	RW33	N461416.19	W0963610.67	N4614.270	W09636.178

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW33	00966	55

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