

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												
ATLES	WONUV (FB)	019.23 / 9.66	3500	LPV: DA LNAV/VNAV: DA LNAV: RW30 CLIMB TO 3500 DIRECT WAPIR AND HOLD.											
ESTIS	UWLIS (FB)	189.20 / 5.19	3500												
WONUV (IAF)	IKUBE (NOPT) (FB)	032.42 / 8.05	3500												
UWLIS (IAF)	IKUBE (NOPT) (FB)	213.25 / 8.05	3500												
IKUBE (IF/IAF)	EDCIR (FB)	303.18 / 7.00	3000												
EDCIR (FAF) (SEE FORM 8260-10)	UZCAW/2.70 NM TO RW30 (FB)	303.09 / 3.01		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.85 INBOUND. CHART FAS OBST: 1299 TREE 424621N/0965520W DISTANCE TO THLD FROM 250 HAT: 0.67 NM. CHART VDP AT 1.06 MILES TO RW30* *LNAV ONLY. WAAS CHANNEL # 53614 REFERENCE PATH ID: W30A CHART CIRCLING ICON LTP HAE: 323.5 M											
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE IKUBE, RT, 303.18 INBOUND, 3500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>303.09</u> FAF: <u>EDCIR</u> DIST FAF TO MAP: <u>5.71</u> THLD: <u>5.71</u> 4. MIN. ALT: IKUBE 3500, EDCIR 3000, UZCAW/2.70 NM TO RW30 2040* 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>3000</u> GS ALT AT: <u>EDCIR 3000</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>37.8</u> 34:1 IS NOT CLEAR 8. MSA FROM: RW30 3500															
				MINIMUMS											
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		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	1397	1	250	1397	1	250	1397	1	250	NA					
LNAV/VNAV DA	1451	1	304	1451	1	304	1451	1	304	NA					
LNAV MDA	1520	1	373	1520	1	373	1520	1	373	NA					
CIRCLING	1680	1	533	1680	1	533	1840	2	693	NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ESTIS ON V15 NORTHWEST BOUND. (SEE FORM 8260-10)															
CITY AND STATE VERMILLION, SD		ELEVATION: 1147 TDZE: 1147 AIRPORT NAME: HAROLD DAVIDSON FIELD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 2 10 DECEMBER 2015				SUP: AMDT: 1 DATED 06/27/2013					

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.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
UZCAW/2.70 NM TO RW30	RW30 (MAP) (FO)	303.09 / 2.70	
RW30 (MAP)	1397 MSL	303.09	
1397 MSL	WAPIR (FO)		3500

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ATLES ON V100 WESTBOUND.

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

CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE YANKTON ALTIMETER SETTING AND INCREASE ALL DA 73 FT AND ALL MDA 80 FT, INCREASE LPV ALL CATS VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS AND LNAV CAT C AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CITY AND STATE

VERMILLION, SD

ELEVATION: 1147

TDZE: 1147

AIRPORT NAME:

HAROLD DAVIDSON FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 2

10 DECEMBER 2015

SUP:

AMDT: 1

DATED: 06/27/2013

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR 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.

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

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KVMR
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W30A
REFERENCE PATH IDENTIFIER (APPROACH ID)	424543.1135N
LTP/FTP LATITUDE	0965541.0745W
LTP/FTP LONGITUDE	+03235
LTP/FTP ELLIPSOIDAL HEIGHT	424635.5140N
FPAP LATITUDE	0965718.9275W
FPAP LONGITUDE	00037.8
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	1496
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

E236EC8E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03491
FPAP ORTHOMETRIC HEIGHT	+03491

CITY AND STATE

VERMILLION, SD

ELEVATION: 1147

TDZE: 1147

AIRPORT NAME:

HAROLD DAVIDSON FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 2

10 DECEMBER 2015

SUP:

AMDT:

1

DATED:

06/27/2013

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.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KVMRK3FR30	AATLES	010ATLESK3EA0E	IF						18000		A JS	
SUSAP	KVMRK3FR30	AATLES	020WONUVK3EA0E	A 020TF			01920097	+ 03500				A JS	
SUSAP	KVMRK3FR30	AATLES	030IKUBEK3EA0EE	B 010TF			03240081	+ 03500				A JS	
SUSAP	KVMRK3FR30	AESTIS	010ESTISK3EA0E	IF						18000		A JS	
SUSAP	KVMRK3FR30	AESTIS	020UWLISK3EA0E	A 020TF			18920052	+ 03500				A JS	
SUSAP	KVMRK3FR30	AESTIS	030IKUBEK3EA0EE	B 010TF			21330081	+ 03500				A JS	
SUSAP	KVMRK3FR30	AIKUBE	010IKUBEK3EA0EE	AR HF			30320040	+ 03500		18000		A JS	
SUSAP	KVMRK3FR30	R	010IKUBEK3EA0E	I IF				+ 03500		18000		A JS	
SUSAP	KVMRK3FR30	R	020EDCIRK3EA1E	F 051TF			30320070	+ 03000			RW30	K3PGA JS	
SUSAP	KVMRK3FR30	R	020EDCIRK3EA2WALFV		ALNAV/VNAV	ALNAV						JS	
SUSAP	KVMRK3FR30	R	021UZCAWK3EA0E	S 031TF			30310030	V 0204002043		-300		A JS	
SUSAP	KVMRK3FR30	R	030RW30	K3PG0GY M 031TF			30310027	01183		-300		A JS	
SUSAP	KVMRK3FR30	R	040	0 M CA			3031	+ 01397				A JS	
SUSAP	KVMRK3FR30	R	050WAPIRK3EA0EY	DF				+ 03500				A JS	
SUSAP	KVMRK3FR30	R	060WAPIRK3EA0EE	R HM			12290040	+ 03500				A JS	

[illegible][illegible]

SUP:	
AMDT:	1
DATED:	06/27/2013

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

SUSAP KVMRK3PR30 RW30 001 0000W30A0N4245431135W09655410745+032350300N4246355140W09657189275106751496000378F400500E236EC8E
SUSAP KVMRK3PR30 RW30 002E +03491+03491LPV 53614

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP KVMRK3SRW30 K3PG				0	18018003525							M	

CITY AND STATE
VERMILLION, SD

ELEVATION: 1147 TDZE: 1147
AIRPORT NAME:
HAROLD DAVIDSON FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 30, AMDT 2
10 DECEMBER 2015

SUP:
AMDT: 1
DATED: 06/27/2013

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ATLES	ATLES	010		IF		FB					
	ATLES	WONUV	020	IAF	TF		FB	2.0	019.2 (022.2T)	009.7	AA 03500	
	ATLES	IKUBE	030		TF		FB	1.0	032.4 (035.4T)	008.1	AA 03500	
	ESTIS	ESTIS	010		IF		FB					
	ESTIS	UWLIS	020	IAF	TF		FB	2.0	169.2 (192.2T)	005.2	AA 03500	
	ESTIS	IKUBE	030		TF		FB	1.0	213.3 (216.3T)	008.1	AA 03500	
	IKUBE	IKUBE	010	IAF	HF	R	FO		303.2 (306.2T)	004.0	AA 03500	
		IKUBE	010	PACF	IF		FB				AA 03500	
		EDCIR	020	PAF	TF		FB	0.5	303.2 (306.2T)	007.0	AA 03000	
		UZCAW	021	SDF	TF		FB	0.3	303.1 (306.1T)	003.0	AA 02040	GS 02043
		RW30	030	MAP	TF		FO	0.3	303.1 (306.1T)	002.7	AT 01183	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		303.1 (306.1T)		AA 01397	
	WAPIR	050		DF		FO				AA 03500	
	WAPIR	060		HM	R	FO		122.9 (125.9T)	004.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ATLES	N422243.80	W0965301.55	N4222.730	W09653.026
	EDCIR	N424221.57	W0964925.54	N4242.360	W09649.426
	ESTIS	N424947.77	W0963349.62	N4249.796	W09633.827
	IKUBE	N423813.86	W0964145.76	N4238.231	W09641.763
	UWLIS	N424443.59	W0963518.87	N4244.727	W09635.315
	UZCAW	N424407.78	W0965243.28	N4244.130	W09652.721
	WAPIR	N425334.58	W0971024.77	N4253.576	W09710.413
	WONUV	N423140.34	W0964804.95	N4231.672	W09648.083
	RW30	N424543.11	W0965541.07	N4245.719	W09655.685

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30	01145	38

CITY AND STATE
VERMILLION, SD

ELEVATION: 1147 TDZE: 1147
 AIRPORT NAME:
 HAROLD DAVIDSON FIELD

FACILITY IDENTIFIER:
 RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
 RNAV (GPS) RWY 30, AMDT 2
 10 DECEMBER 2015

SUP:
 AMDT: 1
 DATED: 06/27/2013