

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>		<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
HAROLD DAVIDSON FIELD		KVMR	RNAV (GPS) RWY 30	2A	VERMILLION	SD
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1147	1147	RNAV (GPS) RWY 30	2	12/10/2015	3E	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		10 OCTOBER 2019	ROUTINE			

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>
ATLES		WONUV		TF	FB	1.00	019.23	9.66	3500
ESTIS		UWLIS		TF	FB	1.00	189.20	5.19	3500
WONUV	IAF	IKUBE	NOPT	TF	FB	1.00	032.42	8.05	3500
UWLIS	IAF	IKUBE	NOPT	TF	FB	1.00	213.25	8.05	3500
IKUBE	IF/IAF	EDCIR		TF	FB	1.00	303.18	7.00	3000
EDCIR	FAF	UZCAW/2.70 NM TO RW30		TF	FB	0.30	303.09	3.01	
UZCAW/2.70 NM TO RW30		RW30	MAP	TF	FO	0.30	303.09	2.70	
RW30	MAP	1470 MSL		CA			303.09		
1470 MSL		WAPIR		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT WAPIR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD SE IKUBE, RT, 303.18 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 303.09FAF: EDCIRDIST FAF TO MAP: 5.71DIST FAF TO THLD: 5.71

4. MIN ALT: IKUBE 3500, EDCIR 3000, UZCAW/2.70 NM TO RW30 2040*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:323 HAT: 0.90GS ANT:

6. MIN GP INCPT: 3000GP ALT AT FAF : EDCIR 3000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 37.8

8. MSA FROM: RW30 3500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA.
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ESTIS ON V15 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ATLES ON V100 WESTBOUND.
CHART NOTE: USE YANKTON ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART YANKTON AWOS-3PT
CHART CIRCLING ICON.
WAAS CHANNEL #53614
REFERENCE PATH ID: W30A
CHART FAS OBST: 1299 TREE 424621N/0965520W.
HOLD NW, RT, 122.85 INBOUND
LTP HAE: 323.5 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	1470	1	323	1470	1	323	1470	1	323		NA				
LNAV/VNAV DA	1487	1	340	1487	1	340	1487	1	340		NA				
LNAV MDA	1580	1	433	1580	1	433	1580	1 1/4	433		NA				
CIRCLING	1760	1	613	1760	1	613	1900	2 1/4	753		NA				



CHANGES - REASONS

1. CHANGED PRIMARY ALTIMETER SOURCE FROM KVMR TO KYKN - KVMR AWOS NOT FAA CERTIFIED AND COMMISSIONED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR AC150/5220-6.
2. DELETED BACKUP ALTIMETER NOTE AND ADDED REVISED NOTE TO 8260-9, PART C: GENERAL REMARKS FOR CONTINGENCY PURPOSES.
3. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F)" TO "BARO-VNAV NA"-LNAV/VNAV MINIMUMS BASED ON REMOTE ALTIMETER SETTING IAW 8260.19H, 8-6-9 E(8).
4. DELETED CHART NOTE "DME/DME RNP 0.3 NA" AND ADDED PBN REQUIREMENTS NOTE "RNP APCH" - IAW 8260.19H PARA 8-6-8 B. (1).
5. DELETED CHART NOTE "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" AND CHANGED UNDER PROFILE SECTION FROM "34:1 IS NOT CLEAR" TO "34:1: IS CLEAR" AND ADDED "20:1 IS CLEAR" - NEW OBSTACLE STUDY.
6. DELETED ADDITIONAL FLIGHT DATA NOTE "CHART VDP AT 1.06 MILES TO RW30", "LNAV ONLY" - LNAV MINIMUMS BASED ON REMOTE ALTIMETER SETTING.
7. CHANGED "DIST TO THLD FROM 250 HAT: 067 NM" TO "DIST TO THLD FROM 323 HAT: 0.90" - LPV MINIMUMS BASED ON REMOTE ALTIMETER SETTING REQUIRING RASS ADJUSTMENT.
8. ADDED UNDER ADDITIONAL FLIGHT DATA "CHART YANKTON AWOS-3PT" - PRIMARY ALTIMETER IS OBTAINED FROM A REMOTE SOURCE IAW 8260.19H, 8-2-4 B(3).
9. CHANGED LPV ALL CATS DA/HAT FROM 1397/250 TO 1470/323 - LPV MINIMUMS BASED ON REMOTE ALTIMETER SETTING AND REQUIRED RASS ADJUSTMENT INCREASED DA.
10. CHANGED LNAV/VNAV ALL CATS DA/HAT FROM 1451/304 TO 1487/340- REQUIRED RASS AND MISSED APPROACH ADJUSTMENT INCREASED DA.
11. CHANGED LNAV ALL CATS MDA/HAT FROM 1520/373 TO 1580/433 AND CAT C VISIBILITY FROM 1 SM TO 1 1/4 SM - NEW VISICHECK AND REQUIRED RASS ADJUSTMENT INCREASED MDA.
12. CHANGED CIRCLING CATS A AND B CMDA/HAA FROM 1680/533 TO 1760/613, CIRCLING CAT C CMDA/HAA FROM 1840/693 TO 1900/753 AND CAT C VISIBILITY FROM 2 SM TO 2 1/4 SM - NEW VISICHECK AND REQUIRED RASS ADJUSTMENT INCREASED CMDA.
13. ADDED NOTE CHART NOTE: USE YANKTON ALTIMETER SETTING IAW 8260.19H, PARA 8-6-9 F. (6).
14. CHANGED ALTERNATE MINIMUMS FROM STANDARD TO NA AND REMOVED @NA WHEN LOCAL WEATHER NOT AVAILABLE ALTERNATE MINIMUMS REQUIRE LOCAL WEATHER MUST BE AVAILABLE AT THE AIRPORT IAW 8260.19H, PARA 8-6-1, O. (4). MEMO.
15. ADDED "MAX 6000" AT HOLD-IN-LIEU - IAW 8260.19H, PARA 8-6-7 B. (2).
16. ADDED LINE 7 PROFILE SECTION "20:1 IS CLEAR" - NEW OBSTACLE STUDY AND IAW 8260.19H 8-6-7 G.(3)

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZMP, SUX APP CON, AMGR

FLIGHT CHECKED BY

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

OFFICE

DATE

Digitally signed by

CASIMIR L TABAKA

OFFICE

DATE

DEVELOPED BY

CASIMIR L. TABAKA (JAY BAGGETT)

Digitally signed by

CASIMIR L TABAKA

Jul 10, 2019

AJV-A422

04/09/2019

APPROVED BY

MARLON ROBINSON

Digitally signed by

CASIMIR L TABAKA

Jul 10, 2019

OFFICE

AJV-A420

DATE

TITLE

MANAGER



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

CRC REMAINDER	E236EC8E
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ADDITIONAL PATH POINT RECORD INFORMATION

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