

**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 ID</u> OB4	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG-G	<u>CITY</u> HARTINGTON	<u>STATE</u> NE
<u>AIRPORT ELEVATION</u> 1388	<u>TDZE</u> 1383	<u>SUPERSEDED</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG-F	<u>DATED</u> 12/02/2021
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 DECEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 6E
				<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

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>
HURLI		DUVAS		TF	FB	1.00	234.49	9.77	3200
MAGET		BAYNY		TF	FB	1.00	050.30	12.34	3400
BAYNY	IAF	COTPO	NOPT	TF	FB	1.00	045.16	5.00	3200
DUVAS	IAF	COTPO	NOPT	TF	FB	1.00	225.29	6.00	3200
ATLES	IAF	COTPO	NOPT	TF	FB	1.00	291.81	10.83	3200
COTPO	IF/IAF	ANLIE		TF	FB	1.00	315.22	5.00	3200
ANLIE	FAF	WUNIT/2.50 NM TO RW31		TF	FB	0.30	315.17	3.07	
WUNIT/2.50 NM TO RW31		RW31	MAP	TF	FO	0.30	315.17	2.50	
RW31	MAP	1690 MSL		CA			315.17		
1690 MSL		COVIL		DF	FO	1.00			3200

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3200 DIRECT COVIL AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE COTPO, RT, 315.22 INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	315.17	FAF:	ANLIE	DIST FAF TO MAP:	5.57	DIST FAF TO THLD:	5.57							
4.	MIN ALT:	COTPO 3200, ANLIE 3200, WUNIT/2.50 NM TO RW31 2220													
5.	DIST TO THLD FROM FAF:	5.57	MM:		IM:		150 HAT:		307 HAT:	0.82	GS ANT:				
6.	MIN GP INCPT:	3200	GP ALT AT FAF:	ANLIE 3200					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	45.0							
8.	MSA FROM:	RW31 3800													

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART NOTE: CIRCLING NA TO RWYS 3 AND 21.
CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: USE YANKTON ALTIMETER SETTING; WHEN NOT RECEIVED, USE WAYNE ALTIMETER SETTING AND INCREASE LPV DA TO 1697 FEET; INCREASE LNAV/VNAV DA TO 1969 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 20 FEET.

ADDITIONAL FLIGHT DATA:

CHART YANKTON AWOS-3.
HOLD NW, RT, 135.03 INBOUND.
CHART FAS OBST: 1649 TREE 423351N/0971307W.
CHART 1882 TOWER 423135N/0971032W.
WAAS CHANNEL # 86523
REFERENCE PATH ID: W31A
CHART CIRCLING ICON.
LTP HAE: 395.7 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	1690	7/8	307	1690	7/8	307		NA			NA				
LNAV/VNAV DA	1962	1 5/8	579	1962	1 5/8	579		NA			NA				
LNAV MDA	1980	1	597	1980	1	597		NA			NA				
CIRCLING	2020	1	632	2200	1 1/4	812		NA			NA				

CHANGES - REASONS

1. CHANGED BACKUP ALTIMETER NOTE FROM "...INCREASE LPV DA TO 1697, LNAV/VNAV DA TO 1969 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 20 FEET" TO "...INCREASE LPV DA TO 1697 FEET; INCREASE LNAV/VNAV DA TO 1969 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 20 FEET" -- UPDATED IAW 8260.19I, 8-6-11.N(1)(A)2.
2. DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MAGET ON V181 SOUTHBOUND" -- V181 CANCELED.
3. CHANGED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" -- IAW 8260.19I 8-6-11 K3.
- QUALITY
30
CHECKED

COORDINATED WITH:

A4A

☐

ALPA

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AOPA

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APA

☐

HAI

☐

NBAA

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OTHER:

ZMP, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by
MICHAEL GARRITY

OFFICE

DATE

DEVELOPED BY

MICHAEL R. GARRITY JR. (DANIEL C JOHNSEN)

Digitally signed by
MICHAEL GARRITY
Oct 26, 2023

OFFICE

AJV-A423

DATE

06/26/2023

APPROVED BY

MICHAEL R. GARRITY JR.

Digitally signed by
MICHAEL GARRITY
Oct 26, 2023

OFFICE

AJV-A423

DATE

12/28/2023

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	0B4
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	423600.6950N
LTP/FTP LONGITUDE	0971456.2265W
LTP/FTP ELLIPSOIDAL HEIGHT	+03957
FPAP LATITUDE	423710.0730N
FPAP LONGITUDE	0971611.9715W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1672
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	22C81568

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04212
FPAP ORTHOMETRIC HEIGHT	+04212

