

**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> BIG HORN COUNTY	<u>AIRPORT ID</u> 00U	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> HARDIN	<u>STATE</u> MT	
<u>AIRPORT ELEVATION</u> 3025	<u>TDZE</u> 3015	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> CONCURRENT WITH 19-ANM-6	<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>
ZAGHI		CIRDI		TF	FB	1.00	021.55	12.59	6400
CIRDI		COGON		TF	FO	1.00	021.67	7.08	5900
CONUK	IF/IAF	COGON	NOPT	TF	FB	1.00	199.73	28.25	5500
COGON	IF	OVI BY	PFAF	TF	FB	1.00	260.03	6.00	4600
OVI BY	FAF	WIMEN/3.06 NM TO RW26		TF	FB	0.30	260.01	1.82	
WIMEN/3.06 NM TO RW26		JADLO/1.87 NM TO RW26		TF	FB	0.30	260.01	1.19	
JADLO/1.87 NM TO RW26		RW26	MAP	TF	FO	0.30	260.01	1.87	
RW26	MAP	3361 MSL		CA			260.01		
3361 MSL		ZEVOP		DF	FB	1.00			
ZEVOP		NIBBE		TF	FO	1.00	309.14	15.30	6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW26

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT ZEVOP AND ON TRACK 309.14 TO NIBBE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD E COGON, RT, 260.03 INBOUND, 5500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 260.01 PFAF: OVIBY DIST PFAF TO MAP: 4.88 DIST PFAF TO THLD: 4.88

4. MIN ALT: COGON 5500, OVIBY 4600, WIMEN/3.06 NM TO RW26 4020*, JADLO/1.87 NM TO RW26 3640*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 346 HAT: 0.99 GS ANT:

6. MIN GP INCPT: 4600 GP ALT AT PFAF : OVIBY 4600 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 40.0

8. MSA FROM: RW26 6200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA.
USE COLSTRIP ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CONUK ON V2-465 NORTHEAST BOUND

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 3069 TREE 454306N/1073621W
CHART POWDER RIVER MOA.
*LNAV ONLY
CHART COLSTRIP AWOS.
CHART CIRCLING ICON.
WAAS CHANNEL #65644
REFERENCE PATH ID: W26A
3517 AAO 454445N/1073206W, 3235 AAO 454348N/1073430W.
HOLD NE, RT, 243.81 INBOUND
LTP HAE: 901.4 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	3361	1	346	3361	1	346		NA			NA				
LNAV/VNAV DA	3411	1 1/8	396	3411	1 1/8	396		NA			NA			QUALITY 10 CHECKED	
LNAV MDA	3480	1	465	3480	1	465		NA			NA				
CIRCLING	3640	1	615	3660	1	635		NA			NA				

CHANGES - REASONS

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZLC, AMGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

DAVID DANNER (ALEXANDER MILES)

OFFICE

AJV-A420

DATE

08/28/2019

APPROVED BY

MARLON ROBINSON

OFFICE

AJV-A421

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	00U
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	454439.8740N
LTP/FTP LONGITUDE	1073905.9785W
LTP/FTP ELLIPSOIDAL HEIGHT	+09014
FPAP LATITUDE	454309.7410N
FPAP LONGITUDE	1074113.2060W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1384
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6E6743AA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+09159
FPAP ORTHOMETRIC HEIGHT	+09159



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
BIG HORN COUNTY	00U	RNAV (GPS) RWY 26	ORIG	HARDIN	MT	3025	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM ZAGHI TO CIRDI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	12.59											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	452612.00N/1073636.00W		4307	164	98	4E	2000					6400
2.TERRAIN	452718.00N/1073639.00W		3887 (3900)								AS1500	5400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM CIRDI TO COGON

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	7.08											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	454357.00N/1072157.00W		3835	164	98	4E	2000					5900
4.TERRAIN	454357.00N/1072157.00W		3635 (3600)								AS1500	5100

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

CONUK

TO

COGON

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
	28.25										
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	455054.00N/1071539.00W	4012	164	98	4E	1000				AC98 AT300	5500
6.TERRAIN	455054.00N/1071539.00W	3812 (3800)								AS1500	5300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

COGON

TO

OVIBY

<u>RNP</u>	<u>DISTANCE</u> 6.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	454357.00N/1072157.00W		3835	164	98	4E	500				AC98 AT100	4600
7.TERRAIN	454333.00N/1072954.00W		3418 (3400)								AS1000	4400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

OVIBY

TO

WIMEN/3.06 NM TO RW26

<u>RNP</u>	<u>DISTANCE</u> 1.82	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.AAO	454527.00N/1073306.00W		3340	164	98	4E	250				AC98 RA186 DG146	4020

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	IR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

WIMEN/3.06 NM TO RW26

TO

JADLO/1.87 NM TO RW26

<u>RNP</u>	<u>DISTANCE</u> 1.19	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9.STACK (30-050104)	454516.20N/1073557.78W		3089	20	3	1A	250				RA186 DG115	3640

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	IR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM

DA

TO

NIBBE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 3046					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				6000
15.AAO	454924.00N/1075112.00W		4151	164	98	4E	1000					5200
16.TERRAIN	454924.00N/1075112.00W		3950 (4000)								AS1500	5500

COMPUTATIONS

TF

TURN FIX

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

NIBBE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 3123					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				6000
15.AAO	454924.00N/1075112.00W		4151	164	98	4E	1000					5200
16.TERRAIN	454924.00N/1075112.00W		3950 (4000)								AS1500	5500

COMPUTATIONS

TF

TURN FIX

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW26

TO

NIBBE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 3234					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				6000
15.AAO	454924.00N/1075112.00W		4151	164	98	4E	1000					5200
16.TERRAIN	454924.00N/1075112.00W		3950 (4000)								AS1500	5500

COMPUTATIONS

TF

TURN FIX

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
13.TRANSMISSION_LINE (30-050089)	454446.94N/1074135.15W	1.35	615	3180	20	3	1A	300		RA146	3640
CATEGORY B											
14.POLE (30-050098)	454418.38N/1074230.08W	1.92	635	3198	20	3	1A	300		RA146	3660

CIRCLING REMARKS:

MSA

CENTER

RW26

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	452451.00N/1070906.00W	123	28.9	5148	164	98	4E	1000			6200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:





PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KM46	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KM46	<u>DISTANCE</u> 40.584	<u>SERVICE-A</u> N	<u>ADJUSTMENTS</u> 146
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KBIL	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KBIL	<u>DISTANCE</u> 37.252	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 174

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME KM46 3397, KBIL 3652 RA = 173.4.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW08 - MIRL (PCL), PAPI-2L (PCL)		NPI-G	
RW26 - MIRL (PCL), PAPI-2L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 3005	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.0
---------------------------------	-----------------------------------	--------------------	------------------------	--------------------------	---------------------------	--------------------

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
---------------------	----------------------	------------	----------------

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS



PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

THE VDP IS NOT PUBLISHABLE DUE TO: REMOTE PRIMARY ALTIMETER,
VEGETATION HEIGHT 40' PER FPT.

CONTINGENCY BACK-UP ALTIMETER NOTE: USE BILLINGS ALTIMETER SETTING: INCREASE LPV DA TO 3389 FEET, LNAV/VNAV DA TO 3439 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET.

BARO-VNAV NA, REMOTE PRIMARY ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 3517 AAO 454445.00N/1073206.00W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 3235 AA0 454348.00N/1073430.00W.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> BIG HORN COUNTY	<u>AIRPORT ID</u> 00U	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>AMDT NO.</u> ORIG	<u>CITY</u> HARDIN	<u>STATE</u> MT	<u>AIRPORT ELEVATION</u> 3025	<u>FACILITY</u> RNAV
-----------------------------------	--------------------------	--	-------------------------	-----------------------	--------------------	----------------------------------	-------------------------

PART D: AIRSPACE

DOCKET # 19-AMN-6

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.94
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.26
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	270.01
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3317
DISTANCE FROM	THLD	TO 1500FT POINT	9.95
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	270.01
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	3635

THRESHOLD
COORDINATES
(IF STR-IN)454439.87N/1073905.98W

ARP COORDINATES454439.80N/1073937.60W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 26 DISTANCE 0.40 NM

FAF
COORDINATES

FIX NAME
COORDINATES

REMARKS

QUALITY
10
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 11 of 12

<u>AIRPORT</u> BIG HORN COUNTY	<u>AIRPORT ID</u> 00U	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>AMDT NO.</u> ORIG	<u>CITY</u> HARDIN	<u>STATE</u> MT	<u>AIRPORT ELEVATION</u> 3025	<u>FACILITY</u> RNAV
PART E: PREPARED BY							
<u>NAME</u> DAVID DANNER (ALEXANDER MILES)	<u>OFFICE</u> AJV-A420			<u>DATE</u> 08/28/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY
10
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 12 of 12