

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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> HDN	<u>PROCEDURE NAME</u> VOR-B	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> HAYDEN	<u>STATE</u> CO
<u>AIRPORT ELEVATION</u> 6606	<u>TDZE</u>	<u>SUPERSEDED</u> VOR/DME-B	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/23/2020
<u>FACILITY</u> CHE	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 05/16/2024	<u>MAG VAR</u> 14E
				<u>EPOCH YEAR</u> 1970
				<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>
CHE VOR/DME		ZOMBU/17.00 DME					075.55	17.00	11400
ZOMBU/17.00 DME CW	IAF	LUDYE/17.00 DME					17.00 DME ARC	8.82	10000
LUDYE/17.00 DME	IF	CHIMY/12.70 DME					285.27	4.30 (CHE R-105)	9500
CHIMY/12.70 DME		HIRTU/10.40 DME					285.27	2.30 (CHE R-105)	9100

MISSED APPROACH

MAP:

HULIX/5.94 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 9900 DIRECT CHE VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9900.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- PROFILE STARTS AT LUDYE/17.00 DME
- FAC:** 285.27 **FAF:** HIRTU/10.40 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:**
- MIN ALT:** LUDYE/17.00 DME 10000, CHIMY/12.70 DME 9500, HIRTU/10.40 DME 9100, YUNGU/8.70 DME 8500
- MSA FROM:** CHE VOR/DME 040-220 13400, 220-310 10100, 310-040 12100



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 108.00 INBOUND.
FAS OBST: 7279 TREE 402809N/1070833W.
8304 AAO 402651N/1070536W, 7700 AAO 402754N/1070654W.
CHART CHE R-076 AT ZOMBU.
FAC CROSSES RWY C/L EXTENDED 2 FT FROM THLD.
CHART CIRCLING ICON.
YUNGU TO RW28: 5.31/54.

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B 1300-2, CAT C 1300-3, CAT D 1600-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
CIRCLING	7900	1 1/4	1294	7900	1 1/2	1294	7900	3	1294	8200	3	1594			

CHANGES - REASONS

- PROCEDURE NAME CHANGED FROM VOR/DME-B TO VOR-B - 8260.3E 1-6-3
- AIRPORT ELEVATION CHANGED FROM 6602 TO 6606 – NEW AIRNAV DATA
- TERMINAL ROUTE CHE VOR/DME TO ZOMBU ALTITUDE INCREASED FROM 11300 TO 11400 – NEW CONTROLLING OBSTACLE
- TERMINAL ROUTE SBURG TO HABRO REMOVED – NO POSITIVE COURSE GUIDANCE FROM SBURG TO NEW IAF (QUTOP)
- TERMINAL ROUTE ZOMBU TO LUDYE ADDED DISTANCE 8.82 – 8260.19I 8-6-4.B.
- TERMINAL ROUTE HABRO TO LUDYE REPLACED WITH QUTOP TO LUDYE – HABRO FIX DISPLACEMENT REQUIRED INCREASE TO SEGMENT LEG LENGTH
- MISSED APPROACH ALTITUDE INCREASED FROM 9200 TO 9900 AND ADDED CLIMB-IN-HOLD INSTRUCTIONS – CLEARANCE LIMIT ALTITUDE REQUIRED CLIMB-IN-HOLD EVALUATION RESULTING IN NEW CONTROLLING OBSTACLE
- EQUIPMENT REQUIREMENTS NOTES ADDED DME REQUIRED - 8260-19I 8-6-8.A.(2).
- ADDITIONAL FLIGHT DATA ADDED "FAC CROSSES RWY C/L EXTENDED 2 FT FROM THLD" – 8260.19I 8-6-10.G.
- FAS OBSTACLE CHANGED FROM 7443 TREE 402729N/1070806W TO 7279 TREE 402809N/1070833W – PREVIOUS FAS OBSTACLE LOCATED IN VG SURVEY AREA
- 7:1 EXCLUDED OBSTACLES CHANGED FROM 8200 TREE 402650N/1070531W AND 7600 TREE 402755N/1070654W TO 8304 AAO 402651N/1070536W AND 7700 AAO 402754N/1070654W – NEW 3DEP TERRAIN DATA
- 7:1 EXCLUDED OBSTACLES NO LONGER CHARTED – 8260.19I 8-6-10.E.(2).
- ADDITIONAL FLIGHT DATA NOTE "CHART CHE R-114 AT HABRO" REPLACED WITH "CHART CHE R-116 AT QUTOP" – NEW TERMINAL ROUTE
- ADDITIONAL FLIGHT DATA VDA NOTE CHANGED FROM "YUNGU TO RW28: 5.32/55" TO "YUNGU TO RW28: 5.31/55" – NEW TARGETS CALCULATED VALUE
- CIRCLING CAT D CMDA/HAA INCREASED FROM 8180/1574 TO 8200/1594 – NEW CONTROLLING OBSTACLE
- REMOVED REMOTE ALTIMETER CHART NOTE – 8260.19I 8-6-9.F.(3).
- CHANGED NOTE FROM "HELICOPTER VISIBILITY REDUCTION NA" TO "RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA" - 8260.19I 8-6-11.K.(3).

2/9/2024: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/27/2023.
ADDED 5/16/2024 TO REQUIRED EFFECTIVE DATE.

- 4/1/2024: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/27/2023.
- REMOVED TERMINAL ROUTE QUTOP/17.00 DME CCW TO LUDYE/17.00 DME
 - REMOVED ADDITIONAL FLIGHT DATA NOTE "CHART CHE R-116 AT QUTOP"



COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZDV ARTCC, DEN FSS, AMGR

FLIGHT CHECKED BY
CRAIG RUSSELL LARSON

Digitally signed by
CASIMIR L TABAKA
Apr 02, 2024

OFFICE
FIOG
DATE
03/28/2024

DEVELOPED BY
JOHN BORDY (JON NEIDIGH)

Digitally signed by
CASIMIR L TABAKA
Apr 02, 2024

OFFICE
AJV-A33
DATE
11/27/2023

APPROVED BY
JOHN BORDY
Digitally signed by
CASIMIR L TABAKA
Apr 02, 2024

OFFICE
AJV-A33
DATE
TITLE
MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
HDN	VOR-B	2	HAYDEN	CO	6606	CHE

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM CHE VOR/DME **TO** ZOMBU/17.00 DME

<u>RNP</u>	<u>DISTANCE</u> 17.00	<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>
AAO	403451.00N/1070715.00W	9334	215	8	4B	2000					11400
TERRAIN	403451.00N/1070715.00W	9133 (9100)								AS1500	10600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: ARC

FROM ZOMBU/17.00 DME CW **TO** LUDYE/17.00 DME

<u>RNP</u>	<u>DISTANCE</u> 8.82	<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>
AAO	401948.00N/1065536.00W	8544	215	8	4B	1000				PR280 AT176	10000
TERRAIN	401948.00N/1065536.00W	8343 (8300)								AS1500	9800

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
34
CHECKED

INTERMEDIATE

FROM

LUDYE/17.00 DME

TO

CHIMY/12.70 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	4.30										
<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>
AAO	401912.00N/1070118.00W	8422	215	8	4B	500				SA-22 PR100 AT500	9500
TERRAIN	401924.00N/1070130.00W	8126 (8100)								AS1000	9100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

CHIMY/12.70 DME

TO

HIRTU/10.40 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	2.30										
<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>
AAO	402545.00N/1070539.00W	8311	215	8	4B	500				PR70	8900
TERRAIN	402545.00N/1070539.00W	8110 (8100)								AS1000	9100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL

FROM

HIRTU/10.40 DME

TO

YUNGU/8.70 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
	1.70										
<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>
AAO	402712.00N/1070600.00W	8052	215	8	4B	250				RA100 PR70 DG28	8500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: STEPDOWN

FROM

YUNGU/8.70 DME

TO

HULIX/5.94 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
	2.76		HULIX/5.94 DME								
<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>
TREE	402809.00N/1070833.00W	7279	215	8	4B	250					7540

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH

FROM

HULIX/5.94 DME

TO

CHE VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 7650			
<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				9900
AAO	403115.00N/1071748.00W	7494	250	10	4B	1000					8500
TERRAIN	403203.00N/1071500.00W	7365 (7400)								AS1500	8900

COMPUTATIONS

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											
STACK (08-000212)	402913.28N/1071108.21W	1.44	1294	6908	20	10	1B	300		XP692	7900
CATEGORY B											
STACK (08-000212)	402913.28N/1071108.21W	2.08	1294	6908	20	10	1B	300		XP692	7900
CATEGORY C											
TREE	402548.00N/1071400.00W	3.30	1294	7548	215	8	4B	300		XP52	7900
CATEGORY D											
AAO	402436.00N/1071254.00W	4.36	1594	7884	215	8	4B	300			8200

CIRCLING REMARKS:

PREVIOUS CIRCLING CAT A-C MINIMUMS BASED ON SI OBSTACLE ADJ. DUE TO UPDATED FAS OBSTACLE, SI ADJ NO LONGER APPLIES. PREVIOUS MINS RETAINED PER FPT REQUEST.



MSA

CENTER

CHE VOR/DME

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
040-220	AAO	400457.00N/1070548.00W	146	27.9	12333	250	10	4B	1000			13400
220-310	AAO	404545.00N/1072545.00W	325	15.6	9055	250	10	4B	1000			10100
310-040	AAO	404548.00N/1070327.00W	024	18.5	11060	250	10	4B	1000			12100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

DEN FSS, ZDV ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3PT	HDN	24	HDN	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	CAG	24	CAG	13.91	Y	90

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KHDN 6606, KCAG 6198
RA = 89.3

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
CHE VOR/DME	POCC	24	1

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW10 - MALSF (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G	
RW28 - HIRL (PCL), REIL (PCL), PAPI-4L	PIR-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.50	54.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☐	2FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	VOR
34:1	
6727 TRANSMISSION_LINE (08-049515) 402818.21N/1071118.47W (14.18)	6740 TRANSMISSION_LINE (08-049520) 402810.17N/1071116.59W (13.63)
6748 TRANSMISSION_LINE (08-049525) 402802.34N/1071116.79W (12.66)	6723 TRANSMISSION_LINE (08-024330) 402818.32N/1071118.63W (10.64)
6723 TRANSMISSION_LINE (08-049518) 402818.19N/1071116.49W (6.04)	6733 TRANSMISSION_LINE (08-049522) 402812.89N/1071114.60W (5.75)
6643 TRAVERSE_WAY (08-049581) 402823.68N/1071151.60W (5.67)	6730 TRANSMISSION_LINE (08-024333) 402813.02N/1071114.75W (3.22)
6723 TRANSMISSION_LINE (08-049519) 402810.23N/1071118.58W (0.84)	6639 TRAVERSE_WAY (08-049582) 402824.51N/1071150.68W (0.75)



PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CRAIG ALTIMETER SETTING AND INCREASE ALL MDAS 100 FEET.

VDP NOT ESTABLISHED - CIRCLING ONLY APPROACH

ORDER 8260.3 CHAPTER 2 APPLIED TO 8304 AAO 402651.00N/1070536.00W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 7700 AAO 402754.00N/1070654.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

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

DISTANCE FROM	FACILITY	TO 1000FT POINT	9.73
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.98
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	299.27
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	7900
DISTANCE FROM	FACILITY	TO 1500FT POINT	16.20
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	7.76
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	299.27
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	8100

THRESHOLD COORDINATES (IF STR-IN)

402832.37N/1071204.38W

ARP COORDINATES

402852.30N/1071303.60W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 28 DISTANCE 0.82 NM

FAF COORDINATES

402606.39N/1070624.75W

FIX NAME COORDINATES

IF LUDYE 402251.62N/1065853.28W

REMARKS

PART E: PREPARED BY

NAME

JOHN BORDY (JON NEIDIGH)

OFFICE

AJV-A33

DATE

11/27/2023

TITLE

AERONAUTICAL INFORMATION SPECIALIST

