

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> KBIL	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 28R	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> BILLINGS	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3662	<u>TDZE</u> 3517	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 28R	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 JUNE 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 21-11.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PILLR	IAF	YIGUD		TF	FB	1.00	253.90	5.01	6000
HRDIN	IAF	YIGUD		TF	FB	1.00	308.23	5.28	6000
GRYZZ	IAF	DOPIC		TF	FB	1.00	044.36	4.16	7600
DOPIC		YIGUD		TF	FB	1.00	333.51	5.10	6000
YIGUD	IF	PICTO		TF	FB	1.00	281.90	3.39	5000
BBCAT	IF	CUBEK		TF	FB	1.00	101.86	2.84	7400
CUBEK		PICTO		RF	FB	1.00	(3.01 NM RADIUS CW (CFDSS))	9.47	5000
PICTO	PFAF	RW28R	MAP	TF	FO	0.30	281.81	4.57	
RW28R	MAP	WIBON		TF	FO	1.00	281.75	12.96	5900

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 5900 ON TRACK 281.75 TO WIBON AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT PICTO

3. FAC: 281.81

PFAF: PICTO

DIST PFAF TO MAP:

DIST PFAF TO THLD:

4. MIN ALT: PICTO 5000

5. DIST TO THLD FROM OM: 4.57

MM:

IM:

150 HAT:

386 HAT: 1.04

GS ANT:

6. MIN GP INCPT: 5000

GP ALT AT PFAF : PICTO 5000

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 55.6

8. MSA FROM: RW28R 8300

PBN REQUIREMENTS NOTE:

RNP AR APCH-GPS

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 24°C OR ABOVE 50°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART SPEED ICON IN PLANVIEW AT PILLR: MAX 230 KIAS.
CHART SPEED ICON IN PLANVIEW AT HRDIN: MAX 230 KIAS.
CHART SPEED ICON IN PLANVIEW AT GRYZZ: MAX 220 KIAS.
CHART PLANVIEW NOTE AT BBCAT: DO NOT EXCEED 210 KIAS UNTIL PICTO.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 6300 AT PILLR.
CHART MANDATORY 8000 AT BBCAT.
CHART MANDATORY 9000 AT GRYZZ.
CHART MANDATORY 6700 AT HRDIN.
HOLD W, RT, 101.54 INBOUND.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD



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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	3903	1 1/4	386	3903	1 1/4	386	3903	1 1/4	386	3903	1 1/4	386			

CHANGES - REASONS

1. UPDATED AIRPORT ELEVATION FROM 3652 TO 3662. - NEW AIRNAV DATA.
2. REMOVED FAHRENHEIT FROM CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -24°C (-11°F) OR ABOVE 50°C (123°F). - 8260.19I REQUIREMENT.
3. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH-GPS. - 8260.19I REQUIREMENT.
4. REMOVED CHART NOTE: GPS REQUIRED. - 8269.19I REQUIREMENT.
5. ADDED 20:1 IS CLEAR TO LINE 7. - 8260.19I REQUIREMENT
6. DELETED PBN NAV SPEC REQUIREMENTS NOTE. - 8260.19I REQUIREMENT.
7. REMOVED ROUTE TYPE QUALIFIER 1: F FROM ADDITIONAL FLIGHT DATA. - 8260.19I REQUIREMENT.
8. REMOVED ROUTE TYPE: A, H FROM ADDITIONAL FLIGHT DATA. - 8260.19I REQUIREMENT.
9. REMOVED ROUTE TYPE QUALIFIER 2: S FROM ADDITIONAL FLIGHT DATA. - 8260.19I REQUIREMENT.
10. REMOVED #TCH 3543.8 MSL (DO NOT CHART) FROM ADDITIONAL FLIGHT DATA. - 8260.19I REQUIREMENT.
11. REMOVED CHART NOTE: GPS REQUIRED. - 8260.19I REQUIREMENT.
12. REMOVED CHART PLANVIEW NOTE ADJACENT TO BBCAT: RF REQUIRED. - 8260.19I REQUIREMENT.
13. REMOVED CHART PBN NAV SPEC REQUIRMENTS NOTE: RNP AR APCH. - 8260.19I REQUIREMENT.
14. CHANGED PROFILE LINE 7 TCH FROM 55.6# TO 55.6. - 8260.19I REQUIREMENT.

5/5/21: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 2/25/21.

1. CHANGED PROFILE LINE 3 FAF TO PFAF, DIST FAF TO MAP TO DIST PFAF TO MAP, DIST FAF TO THLD TO DIST PFAF TO THLD. - COMPLIANCE WITH 8260.19I.
2. CHANGED PROFILE LINE 6 GP ALT AT FAF TO GP ALT AT PFAF. - COMPLIANCE WITH 8260.19I.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ATCT, BIL APCH, ZLC

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

Digitally signed by

DONALD H LANIER

DEVELOPED BY

JON DENTON (JOHN KEEFER)

Digitally signed by

May 05, 2021

APPROVED BY

LONNIE EVERHART

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May 05, 2021

Digitally signed by

DONALD H LANIER

May 05, 2021

OFFICE**OFFICE**

AJV-A432

OFFICE

AJV-A430

DATE**DATE**

01/08/2021

DATE**TITLE**

MANAGER