

**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> KBIL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> BILLINGS	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3662	<u>TDZE</u> 3636	<u>SUPERSEDED</u> RNAV (GPS) RWY 7	<u>ORIGINAL/AMENDMENT</u> 2	<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

<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>
BIL VORTAC		YURUB		TF	FO	1.00	251.58	8.31	6000
HAKDI	IAF	YURUB	NOPT	TF	FB	1.00	005.34	22.07	6000
WIBMU	IAF	YURUB	NOPT	TF	FB	1.00	147.12	8.91	6000
COLUS	IAF	YURUB	NOPT	TF	FB	1.00	078.59	11.73	6000
YURUB	IF/IAF	CAPTU		TF	FB	1.00	073.83	5.98	5300
CAPTU	FAF	TOLNE/2.10 NM TO RW07		TF	FB	0.30	073.89	2.98	
TOLNE/2.10 NM TO RW07		RW07	MAP	TF	FO	0.30	073.89	2.10	
RW07	MAP	3886 MSL		CA			073.89		
3886 MSL		MUMEE		DF	FO	1.00			6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW07

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT MUMEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD W YURUB, RT, 073.83 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAC: 073.89FAF: CAPTUDIST FAF TO MAP: 5.08DIST FAF TO THLD: 5.08

4. MIN ALT: YURUB 6000, CAPTU 5300, TOLNE/2.10 NM TO RW07 4340

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.64GS ANT:

6. MIN GP INCPT: 5300GP ALT AT FAF : CAPTU 5300OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 45.0

8. MSA FROM: RW07 8300

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: RWY 07 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 53°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BIL VORTAC AIRWAY RADIALS 178 CW 333.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.37 NM TO RW07
CHART FAS OBST: 3859 TOWER (30-000140) 454814N/1083554W.
CHART CIRCLING ICON.
LTP HAE: 1095.1 M
HOLD E, RT, 254.23 INBOUND.
WAAS CHANNEL # 87127
REFERENCE PATH ID: W07A
LTP HAE: 1095.1 M

MINIMUMS:

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

ALTERNATE: NA

☐

STANDARD - CAT D 1000-3

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	3886	3/4	250	3886	3/4	250	3886	3/4	250	3886	3/4	250			
LNAV/VNAV DA	3950	1	314	3950	1	314	3950	1	314	3950	1	314			
LNAV MDA	4120	1	484	4120	1	484	4120	1 3/8	484	4120	1 3/8	484			
CIRCLING	4120	1	458	4160	1	498	4180	1 1/2	518	4580	3	918			

QUALITY
6
CHECKED

CHANGES - REASONS

1. UPDATED AIRPORT ELEVATION FROM 3652 TO 3562. - NEW AIRNAV DATA.
2. CHANGED RNP VALUE ON FEEDER BIL TO YURUB FROM 2 TO 1. - 8260.19I REQUIREMENT.
3. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS. - 8260.19I REQUIREMENT.
4. REMOVED CHART NOTE: DME/DME RNP-0.3 NA. - 8260.19I REQUIREMENT.
5. REMOVED FAHRENHEIT FROM CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C (-13°F) OR ABOVE 53°C (127°F). - 8260.19I REQUIREMENT.
6. CIRCLING HAAS CHANGED FROM CAT A 468 TO 458, CAT B 508 TO 498, CAT C 528 TO 518, CAT D 928 TO 918. - AIRPORT ELEVATION RAISED TEN FEET.
7. ADDED MAX HOLDING ALT TO LINE 2. - NEW DATA.
8. ADDED 20:1 IS CLEAR TO LINE 7. - 8260.19I REQUIREMENT.
9. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM CHART FAS OBST: 3859 TOWER 454814N/1083554W. TO CHART FAS OBST: 3859 TOWER (30-000140) 454814N/1083554W. - 8260.19I REQUIREMENT.
10. CHANGED LINE 4 ALTITUDE FROM 4340* TO 4340. - 8260.19I REQUIREMENT.

COORDINATED WITH:

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

FLIGHT CHECKED BY

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

OFFICE

Digitally signed by **DATE**

JON DENTON

Feb 25, 2021

DEVELOPED BY

JON DENTON (JOHN KEEFER)

Digitally signed by

JON DENTON

Feb 25, 2021

OFFICE

AJV-A432

DATE

01/08/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

JON DENTON

Feb 25, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBIL
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	454827.6300N
LTP/FTP LONGITUDE	1083330.2300W
LTP/FTP ELLIPSOIDAL HEIGHT	+10951
FPAP LATITUDE	454836.9555N
FPAP LONGITUDE	1083123.5555W
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	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	9214310B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11083
FPAP ORTHOMETRIC HEIGHT	+11083