

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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> BILLINGS LOGAN INTL	<u>AIRPORT ID</u> KBIL	<u>PROCEDURE NAME</u> ILS Y OR LOC Y RWY 10L	<u>ORIGINAL/AMENDMENT</u> 26A	<u>CITY</u> BILLINGS	<u>STATE</u> MT	
<u>AIRPORT ELEVATION</u> 3662	<u>TDZE</u> 3585	<u>SUPERSEDED</u> ILS Y OR LOC Y RWY 10L	<u>ORIGINAL/AMENDMENT</u> 26	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-BIL	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 JANUARY 2019	<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		HEXOS/I-BIL LOC/DME 5.04 DME	FAF/IAF				304.52	2.91	6200
BEARE	IAF	WIBON	NOPT	TF	FB	1.00	064.40	5.68	6000
LRSUN	IAF	WIBON	NOPT	TF	FB	1.00	111.11	6.62	6000
WIBON/I-BIL LOC/DME 11.04 DME	IF	HEXOS/I-BIL LOC/DME 5.04 DME					101.71	6.00 (I-BIL)	5300

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.23 NM AFTER HEXOS/I-BIL LOC 5.04 DME OR AT I-BIL 0.19 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4500 THEN CLIMBING RIGHT TURN TO 6000 ON BIL VORTAC R-122 TO BIL VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 281.71 **OUTBOUND** 5800 **FT WITHIN** 10 **MILES OF** HEXOS/I-BIL LOC/DME 5.04 DME (IAF)

2.

3. **FAC:** 101.71 **FAF:** HEXOS/I-BIL LOC 5.04 DME **DIST FAF TO MAP:** 5.23 **DIST FAF TO THLD:** 5.23

4. **MIN ALT:** HEXOS/I-BIL LOC 5.04 DME 5300, ZOBUM/I-BIL LOC/DME 2.12 DME 4360*

5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.47 **GS ANT:** 1135

6. **MIN GS INCPT:** 5300 **GS ALT AT FAF :** HEXOS/I-BIL LOC 5.04 DME 5300 **OM:** **MM:** **IM:**

7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 50.6

8. **MSA FROM:** BIL VORTAC 130-220 8300, 220-130 6300

EQUIPMENT REQUIREMENTS NOTES:



DME REQUIRED

PBN REQUIREMENTS NOTE: FROM BEARE, LRSUN: RNAV 1-GPS REQUIRED.

NOTES:

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 10L CAT C/D VISIBILITY TO RVR 6000.
CHART SPEED ICON IN PLANVIEW AT BEARE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT LRSUN: MAX 230 KIAS.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE VIEW: I-BIL DME ANTENNA.
CHART IN PLANVIEW: HEXOS/BIL VORTAC 2.92 DME
CHART MANDATORY 8000 AT BEARE.
CHART MANDATORY 8000 AT LRSUN
CHART CIRCLING ICON.
CHART VDP AT 0.96 DME*
DISTANCE VDP TO THLD 1.14 NM
* LOC ONLY
CHART FAS OBST: 3732 TREE 454908N/1083544W.
HOLD SE, RT, 303.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: 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
S-ILS 10L**	3785	2400	200	3785	2400	200	3785	2400	200	3785	2400	200			
S-LOC 10L	4000	2400	415	4000	2400	415	4000	4000	415	4000	4000	415			
CIRCLING	4100	1	448	4160	1	508	4180	1 1/2	528	4580	3	928			

CHANGES - REASONS

1. TERMINAL ROUTES: ADDED "NOPT" TO BEARE AND LRSUN TRANSITIONS - NO PT REQUIRED FROM THESE IAF FIXES.
2. REMOVED EQUIPMENT REQUIREMENT NOTE "RNAV 1-GPS OR DME REQUIRED FOR PROCEDURE ENTRY - SUPERFLUOUS INFO, DME AND RNAV NOTES ALREADY ESTABLISHED.
3. REMOVED NOTE "CHART PBN NAVSPEC REQUIREMENT NOTE: RNAV 1 - SUPERFLUOUS INFO COVERED BY PBN REQUIREMENT NOTE.
4. REPLACED EQUIPMENT REQUIREMENTS NOTE WITH PBN REQUIREMENTS NOTE: FROM BEARE, LRSUN: RNAV 1-GPS REQUIRED - IAF WAYPOINTS ARE TIED TO RNAV ARRIVALS.
5. LINE 5, ADDED DIST TO THLD FROM 200 HAT: 0.47, AND FROM GS ANT: 1135 - PRECISION APPROACH.
6. ADDITIONAL FLIGHT DATA: ADDED "CHART IN PLANVIEW: HEXOS/BIL VORTAC 2.92 DME" - PER FLIGHT INSPECTION REQUEST TO ADD DME TO IAF FROM BILLINGS VORTAC.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZLC, BIL ATCT, BIL APP CON, AMGR, ATA

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

DEVELOPED BY

COLTON CROWDER

Digitally signed by
COLTON CROWDER
Sep 25, 2018

Digitally signed by
DONALD H LANIER
Oct 02, 2018

OFFICE

OFFICE

AJV-5431

OFFICE

AJV-5430

DATE

DATE

08/30/2018

DATE

TITLE

MANAGER

APPROVED BY

PATRICK MULQUEEN

Digitally signed by
DONALD H LANIER
Oct 02, 2018

