

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>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
WHEATLAND COUNTY AT HARLOWTON	KHWQ	RNAV (GPS) RWY 27	ORIG	HARLOWTON	MT
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>
4312	4295		NONE		11E
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u>
RNAV		16 JULY 2020	ROUTINE		2020

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>
BAXTA		PEGME		TF	FO	1.00	054.92	13.76	6900
PELJE	IAF	PEGME	NOPT	TF	FB	1.00	311.45	30.02	6900
PEGME	IF/IAF	MACSY		TF	FB	1.00	267.76	5.95	5900
MACSY	FAF	CEBLO/2.80 NM TO RW27		TF	FB	0.30	267.74	2.18	
CEBLO/2.80 NM TO RW27		RW27	MAP	TF	FO	0.30	267.74	2.80	
RW27	MAP	4606 MSL		CA			267.74		
4606 MSL		QOVCA		DF	FB	1.00			
QOVCA		ZERZO		TF	FO	1.00	352.38	23.89	9600

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 9600 DIRECT QOVCA AND ON TRACK 352.38 TO ZERZO AND HOLD.
 #MISSED APPROACH REQUIRES MINIMUM CLIMB OF 220 FEET PER NM TO 9200.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD E PEGME, RT, 267.76 INBOUND, 6900 FT. IN LIEU OF PT (IAF), MAX 12000.

3. FAC: 267.74 FAF: MACSY DIST FAF TO MAP: 4.98 DIST FAF TO THLD: 4.98

4. MIN ALT: PEGME 6900, MACSY 5900, CEBLO/2.80 NM TO RW27 5200*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 311 HAT: 0.92 GS ANT: MM: IM:

6. MIN GP INCPT: 5900 GP ALT AT FAF : MACSY 5900 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 51.0

8. MSA FROM: RW27 11500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 9 NA AT NIGHT.
CHART NOTE: BARO-VNAV NA.
*LNAV ONLY
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE LEWISTOWN ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART LEWISTOWN ASOS.
WAAS CHANNEL #62943
REFERENCE PATH ID: W27A
CHART FAS OBST: 4463 ANTENNA 462644N/1094805W.
HOLD S, RT, 352.38 INBOUND
LTP HAE: 1287.2 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#	4606	1	311	4606	1	311		NA			NA				
LPV DA	4950	1 7/8	655	4950	1 7/8	655		NA			NA				
LNAV/VNAV DA	4999	2	704	4999	2	704		NA			NA				
LNAV MDA	5140	1	845	5140	1 1/4	845		NA			NA				
CIRCLING	5140	1 1/4	828	5140	1 1/4	828		NA			NA				



CHANGES - REASONS

ORIGINAL PROCEDURE.

COORDINATED WITH:

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

FLIGHT CHECKED BY

EDWARD W MESA

Digitally signed by

WARDELL HENNING **OFFICE** FICO

DATE

2/5/20

Feb 06, 2020

DEVELOPED BY

WARDELL HENNING (THERON CYRUS)

Digitally signed by

WARDELL HENNING

OFFICE

AJV-A432

DATE

07/09/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by

WARDELL HENNING

Feb 06, 2020

OFFICE

AJV-A430

DATE

TITLE

MANAGER

Feb 06, 2020



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHWQ
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	462651.8875N
LTP/FTP LONGITUDE	1095040.3225W
LTP/FTP ELLIPSOIDAL HEIGHT	+12872
FPAP LATITUDE	462705.2740N
FPAP LONGITUDE	1095247.7185W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	15EEE1D2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+12990
FPAP ORTHOMETRIC HEIGHT	+12990

