

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> WILLISTON BASIN INTL	<u>AIRPORT ID</u> KXWA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> WILLISTON	<u>STATE</u> ND	
<u>AIRPORT ELEVATION</u> 2353	<u>TDZE</u> 2316	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> 10/10/2019	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 050/30 CW 230/30	NOPT	JOSVA	IF/IAF	4300
2. 230/30 CW 050/30	PT	JOSVA	IAF	4300

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>
JOSVA	IF/IAF	ZERAG		TF	FB	1.00	139.63	6.13	3700
ZERAG	FAF	TUNOE/2.25 NM TO RW14		TF	FB	0.30	139.69	1.98	
TUNOE/2.25 NM TO RW14		RW14	MAP	TF	FO	0.30	139.69	2.25	
RW14	MAP	2516 MSL		CA			139.69		
2516 MSL		VUYUC		DF	FO	1.00			4300

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4300 DIRECT VUYUC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NW JOSVA, RT, 139.63 INBOUND, 4300 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAC: 139.69FAF: ZERAGDIST FAF TO MAP: 4.23DIST FAF TO THLD: 4.23

4. MIN ALT: JOSVA 4300, ZERAG 3700, TUNOE/2.25 NM TO RW14 3060*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.51GS ANT:

6. MIN GP INCPT: 3700GP ALT AT FAF : ZERAG 3700OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 50.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.02 NM TO RW14*
*LNAV ONLY
WAAS CHANNEL #40143
REFERENCE PATH ID: W14A
CHART FAS OBST: 2414 TREE 481725N/1034701W.
HOLD SE, RT, 319.84 INBOUND
LTP HAE: 682.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
LPV DA	2516	3/4	200	2516	3/4	200	2516	3/4	200	2516	3/4	200			
LNAV/VNAV DA	2577	7/8	261	2577	7/8	261	2577	7/8	261	2577	7/8	261			
LNAV MDA	2680	1	364	2680	1	364	2680	1	364	2680	1	364			
CIRCLING	2760	1	407	2820	1	467	2820	1 1/2	467	2920	2	567			

CHANGES - REASONS



COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☒ **NBAA** ☒ **OTHER:** ZLC, ZMP, ARPT MGR

Digitally signed by

FLIGHT CHECKED BY

DONALD H LANIER

OFFICE

DATE

PENDING

May 23, 2019

FICO

DEVELOPED BY

Digitally signed by

KELLY D DEAN

OFFICE

DATE

KELLY DEAN

May 17, 2019

AJV-A431

04/16/2019

APPROVED BY

Digitally signed by

DONALD H LANIER

OFFICE

DATE

TITLE

LONNIE EVERHART

May 23, 2019

AJV-A430

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KXWA
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	481610.4115N
LTP/FTP LONGITUDE	1034533.6955W
LTP/FTP ELLIPSOIDAL HEIGHT	+06828
FPAP LATITUDE	481455.1180N
FPAP LONGITUDE	1034422.5195W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	CD96345C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07020
FPAP ORTHOMETRIC HEIGHT	+07020

