

**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> KALW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> WALLA WALLA	<u>STATE</u> WA		
<u>AIRPORT ELEVATION</u> 1194	<u>TDZE</u> 1175	<u>SUPERSEDED</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 11/13/2014	<u>MAG VAR</u> 14E	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 8 SEPTEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> 09/08/2022	<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>
TACUP		ZUMPU		TF	FB	1.00	135.75	5.69	4400
TOLGA		ZETIG		TF	FB	1.00	267.62	6.76	6000
ZETIG		CILON		TF	FO	1.00	267.50	4.20	3900
ZUMPU	IAF	CILON	NOPT	TF	FB	1.00	105.89	7.50	3900
CILON	IF/IAF	HIPUX		TF	FB	1.00	022.06	7.43	2800
HIPUX	FAF	RW02	MAP	TF	FO	0.30	022.13	5.03	
RW02	MAP	1375 MSL		CA			022.13		
1375 MSL		COSUV		DF	FB	1.00			
COSUV		DATES		TF	FO	1.00	345.75	8.22	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW02

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT COSUV AND ON TRACK 345.75 TO DATES AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S CILON, RT, 022.06 INBOUND, 3900 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAC: 022.13FAF: HIPUXDIST FAF TO MAP: 5.03DIST FAF TO THLD: 5.03

4. MIN ALT: CILON 3900, HIPUX 2800

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.55GS ANT:

6. MIN GP INCPT: 2800GP ALT AT PFAF : HIPUX 2800OM:MM:IM:

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

8. MSA FROM: RW02 7600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TOLGA ON V357 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TACUP ON V112 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
HOLD W, RT, 071.30 INBOUND.
CHART FAS OBST: 1309 TREE 460504N/1181645W.
CHART VDP AT 1.13 NM TO RW02.
WAAS CHANNEL # 72805
REFERENCE PATH ID: W02A
LTP HAE: 331.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 1000-2 3/4, CAT D 1200-3, 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	1375	3/4	200	1375	3/4	200	1375	3/4	200	1375	3/4	200			
LNAV/VNAV DA	1511	1	336	1511	1	336	1511	1	336	1511	1	336			
LNAV MDA	1560	1	385	1560	1	385	1560	1 1/8	385	1560	1 1/8	385			
CIRCLING	1760	1	566	1820	1	626	2120	2 3/4	926	2300	3	1106			



CHANGES - REASONS

1. ALL HEADINGS CHANGED BY 6 DEGREES - NEW ALW MAG VAR CHANGED FROM 20E TO 14E.
2. CHANGED TDZE FROM 1173 TO 1175 - NEW RUNWAY DATA.
3. TERMINAL ROUTES: CHANGED ALL FEEDER SEGMENTS RNP VALUE FROM 2.00 TO 1.00 - 8260.58B TABLE 1-2-1.
4. TERMINAL ROUTES: CHANGED SEGMENT FROM CILON TO HIPUX RNP VALUE FROM 0.50 TO 1.00 - 8260.58B TABLE 1-2-1.
5. TERMINAL ROUTES: ADDED MISSED APPROACH DF LEG RNP VALUE 1.00 - 8260.58B TABLE 1-2-1.
6. TERMINAL ROUTES: CHANGED CA LEG ALTITUDE FROM 1373 TO 1375 - LPV DA INCREASED FROM 1373 TO 1375 DUE TO TDZE CHANGE.
7. LINE 2: ADDED MAX 10000 TO HOLD IN LIEU - 8260.19I, PARA 8-6-7 B(2).
8. LINE 7: ADDED 20:1 IS CLEAR - 8260.19I, PARA 8-6-7 G(3).
9. NOTES: CHANGED BARO-VNAV NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C (13°F) OR ABOVE 54°C (130°F). TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C - 8260.19I, PARA 8-6-9 R.
10. NOTES: DELETED NOTE: DME/DME RNP-0.3 NA - 8260.19I, PARA 1-1-5.F.(18).
11. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS - 8260.19I, PARA 8-6-8 B.
12. NOTES: MOVED WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PENDLETON ALTIMETER SETTING AND INCREASE ALL DA / MDA 120 FEET AND LPV ALL VISIBILITIES 1/4 MILE, LNAV / VNAV ALL VISIBILITIES 3/8 MILE, LNAV CATS C/D VISIBILITY 3/8 MILE, AND CIRCLING CAT C VISIBILITY 1/4 MILE AND VDP AND BARO-VNAV NA WHEN USING PENDLETON ALTIMETER SETTING TO 8260-9 GENERAL REMARKS - 8260.19I, PARA 8-6-9 F (3).
13. NOTES: CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVALS AT TACUP ON V112 NORTHEAST BOUND TO PROCEDURE NA FOR ARRIVALS AT TACUP ON V112 NORTHBOUND - VALUE OF THE COURSE IS NORTH.
14. MINIMUMS: CHANGED LPV DA FROM 1373 TO 1375 - NEW RWY 2 TDZE IS 1175.
15. MINIMUMS: CHANGED LNAV/VNAV DA FROM 1509 TO 1511 - NEW RWY 2 TDZE IS 1175.
16. MINIMUMS: CHANGED LNAV HAT FROM 387 TO 385 - NEW RWY 2 TDZE IS 1175.
17. FAS DATA: CHANGED LTP/FTP FROM 460507.1555N/1181730.0350W TO 460507.1560N/1181730.0330W - NEW RWY 2 DATA.
18. NOTES: ADDED NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS EXIST.
19. LINE 7: CHANGED 34:1 IS CLEAR TO 34:1 IS NOT CLEAR - 34:1 PENETRATIONS EXIST.
20. MINIMUMS: CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM 1 1/8 TO 1 - NEW VISIBILITY CALCULATIONS.
21. DISTANCE TO THLD FROM 200 HAT: CHANGED FROM 0.49 TO 0.55 AND LOCATION MOVED FROM ADDITIONAL FLIGHT DATA TO LINE 5 - TDZE CHANGE AND LOCATION 8260.19I, PARA 8-6-7.E.(3).
22. CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVALS AT TOLGA ON V357 SOUTHBOUND TO PROCEDURE NA FOR ARRIVALS AT TOLGA ON V357 SOUTHEAST BOUND -VALUE OF THE COURSE SOUTHEAST.
23. CHANGED ADDITIONAL FLIGHT DATA ENTRY FROM CHART VDP AT 1.13 MILES TO RW02* *LNAV ONLY TO CHART VDP AT 1.13 NM TO RW02 - 8260.19I PARA 8-6-10.M.
24. UPDATED MAG VAR FROM 1980 20E TO 2025 14E - AIRPORT MAG VAR TABLE.
25. FAS DATA: FPAP CHANGED FROM 460619.0460N/1181614.4415W TO 460619.0475N/1181614.4420W - LTP LAT/LONG CHANGED.
26. FAS DATA: CHANGED CRC REMAINDER FROM 6F929BA4 TO 830D40ED - FPAP CHANGED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZSE, WALLA WALLA ATC, CHINOOK APP CON, AIRPORT MANAGER

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by

DEVELOPED BY

JAMES ROGERS

Digitally signed by

JAMES ROGERS

Jun 16, 2022

MARK D ADAMS

Jun 30, 2022

OFFICE**OFFICE**

AJV-A412

OFFICE

AJV-A410

DATE**DATE**

04/08/2022

DATE**APPROVED BY**

JULIE MORGAN

Digitally signed by

MARK D ADAMS

Jun 30, 2022

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KALW
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	460507.1560N
LTP/FTP LONGITUDE	1181730.0330W
LTP/FTP ELLIPSOIDAL HEIGHT	+03312
FPAP LATITUDE	460619.0475N
FPAP LONGITUDE	1181614.4420W
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	0760
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	830D40ED

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03517
FPAP ORTHOMETRIC HEIGHT	+03517