

**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 20	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> WALLA WALLA	<u>STATE</u> WA		
<u>AIRPORT ELEVATION</u> 1194	<u>TDZE</u> 1194	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 12/07/2017	<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>
RENGO		YALLO		TF	FB	1.00	232.20	5.32	6000
BACUN		KIMIW		TF	FO	1.00	085.06	16.07	4600
ALW VOR/DME		KIMIW		TF	FO	1.00	022.56	13.07	4600
YALLO	IAF	KIMIW	NOPT	TF	FB	1.00	235.10	6.40	4600
KIMIW	IF/IAF	COSUV		TF	FB	1.00	202.31	5.91	3200
COSUV	FAF	WACKE/3.70 NM TO RW20		TF	FB	0.30	202.25	2.44	
WACKE/3.70 NM TO RW20		RW20	MAP	TF	FO	0.30	202.25	3.70	
RW20	MAP	1394 MSL		CA	FB		202.25		
1394 MSL		CILON		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT CILON AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N KIMIW, RT, 202.31 INBOUND, 4600 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAF: 202.25FAF: COSUVDIST FAF TO MAP: 6.14DIST FAF TO THLD: 6.14

4. MIN ALT: KIMIW 4600, COSUV 3200, RW20, WACKE/3.70 NM TO RW20 2420

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

6. MIN GP INCPT: 3200GP ALT AT PFAF : COSUV 3200OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 49.9

8. MSA FROM: RW20 7600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: ** RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
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 RENGU ON T317, V187 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ALW VOR/DME AIRWAY RADIALS 357 CW 053.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV VISIBILITY TO 1 5/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
HOLD S, RT, 022.06 INBOUND.
FAS OBST: 2097 AAO 461027N/1181006W, 1933 AAO 460854N/1181239W, 1900 AAO 460852N/1181304W.
CHART VDP AT 2.85 NM TO RW20.
WAAS CHANNEL # 90299
REFERENCE PATH ID: W20A
LTP HAE: 343.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B 1000-2, CAT C 1000-3, 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**	1394	2400	200	1394	2400	200	1394	2400	200	1394	2400	200			
LNAV/VNAV DA	1773	1 1/4	579	1773	1 1/4	579	1773	1 1/4	579	1773	1 1/4	579			
LNAV MDA	2160	4000	966	2160	5500	966	2160	2 1/2	966	2160	2 1/2	966			
CIRCLING	2160	1 1/4	966	2160	1 1/2	966	2160	3	966	2300	3	1106			



CHANGES - REASONS

1. ALL HEADINGS UPDATED 6 DEGREES - ALW MAG VAR CHANGED FROM 20E TO 14 E.
2. 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 - 8260.19, PARA 8-6-9 R.
3. NOTES: DELETED NOTE: DME/DME RNP-0.3 NA - 8260.19I, PARA 1-1-5 F (18).
4. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS - 8260.19I, PARA 8-6-8 B.
5. NOTES: MOVED BACKUP ALTIMETER NOTES WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PENDLETON ALTIMETER SETTING AND INCREASE ALL DAS / MDAS 120 FEET AND INCREASE LPV RVR TO 2800, LNAV / VNAV VISIBILITIES TO 1 7/8 MILES, AND LNAV CAT A RVR TO 6000. VDP NA WHEN LOCAL ALTIMETER SETTING NOT RECEIVED. FOR INOPERATIVE MALSR WHEN USING PENDLETON ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 AND LNAV CAT A TO 1 1/4 TO GENERAL REMARKS - 8260.19I F (3).
6. NOTES: ADDED CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV VISIBILITY TO 1 5/8 SM - NEW VISIBILITY CALCULATIONS.
7. NOTES: CHANGED FROM **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING PENDLETON ALTIMETER SETTING) TO **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA - PENDLETON PORTION OF THE NOTE MOVED TO THE GENERAL REMARKS - 8260.19I F (3).
8. MINIMUMS: CHANGED LNAV/VNAV VISIBILITY FROM 1 1/2 TO 1 1/4 - NEW VISIBILITY CALCULATIONS.
9. ADDED ALTERNATE MINIMUMS: CAT A, B 1000-2, CAT C 1000-3, CAT D 1200-3 - CORRECT DOCUMENTATION ERROR FROM LAST FULL AMDT.
10. TERMINAL ROUTES: CHANGED ALL FEEDER SEGMENT RNP VALUES FROM 2.00 TO 1.00 - 8260.58B, TABLE 1-2-1.
11. TERMINAL ROUTES: CHANGED INTERMEDIATE SEGMENT RNP VALUE FROM 0.50 TO 1.00 - 8260.58B, TABLE 1-2-1.
12. TERMINAL ROUTES: ADDED RNP VALUE 1.00 FOR THE DF LEG OF THE MISSED APPROACH - 8260.58B, TABLE 1-2-1.
13. LINE 2: ADDED MAX 10000 TO HOLD-IN-LIEU - 8260.19, PARA 8-6-7 B2.
14. LINE 4: DELETED THE ASTERISK AFTER 2420 - NO LONGER REQUIRED BY CRITERIA.
15. LINE 7: ADDED 20:1 IS CLEAR - 8260.19, PARA 8-6-7 G (3).
16. FAS DATA BLOCK: CHANGED LTP/FTP LAT LONGS FROM 460559.1575N/1181635.3640W TO 460559.1580N/1181635.3615W - NEW RUNWAY DATA.
17. FAS DATA BLOCK: CRC REMAINDER CHANGED FROM B7A65DE3 TO 64424AF0 - NEW FPAP LOCATION.
18. FAS DATA BLOCK: CHANGED FPAP LAT/LONGS FROM 460447.2630N/1181750.9420W TO 460447.2625N/1181750.9375W - NEW LTP AND ELLIPSOIDAL HEIGHT CHANGED.
19. MAG VAR CHANGED FROM 20E/1980 TO 14E/2025 - AIRPORT MAG VAR TABLE.
20. LINE 6 GP ALT AT: ADDED 3200 - 8260-19I PARA 8-6-7 F.
21. DISTANCE TO THLD FROM 200 HAT: 0.47 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 RENGU ON V536 NORTHEAST BOUND TO PROCEDURE NA FOR ARRIVAL AT RENGU ON T317, V187 EASTBOUND - FOR REMOVING V536 AIRCRAFT CAN START THE PROCEDURE AT ALW SO RESTRICTING V536 NOT REQUIRED. T317, V187 ADDED AS TURN MORE THAN MAX 90 DEGREES.
23. CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVALS ON ALW VOR/DME AIRWAY RADIALS 308 CW 053 TO PROCEDURE NA FOR ARRIVAL ON ALW VOR/DME AIRWAY RADIALS 357 CW 053 - FORMAT CHANGE 8260-19I PARA 8-2-5 E AND CHANGED STARTING RADIAL FROM 308 TO 357 AS AIRCRAFT CAN START THE PROCEDURE AT BACUN WHICH IS ON R-308, R-308 RESTRICTION NOT REQUIRED.
24. CHANGED ADDITIONAL FLIGHT DATA ENTRY FROM CHART VDP AT 2.85 MILES TO RW20* *LNAV ONLY TO CHART VDP AT 2.85 NM TO RW20 - 8260.19I PARA 8-6-10.M.
25. CHANGED ADDITIONAL FLIGHT DATA ENTRIES FROM FAS OBST: 1900 AAO 460852N/1181304W AND 2097 AAO 461027N/1181006W, 1933 AAO 460854N/1181239W TO FAS OBST: 2097 AAO 461027N/1181006W, 1933 AAO 460854N/1181239W, 1900 AAO 460852N/1181304W - 8260-19I PARA 8-6-10 E (2) AND 8-6-10 C NOTE.
26. CHANGED ADDITIONAL FLIGHT DATA LTP HAE FROM 342.5 TO 343.6 REVISED AIRNAV DATA.
27. FAS DATA BLOCK: CHANGED LTP ELLIPSOIDAL HEIGHT FROM +03425 TO +03436 - REVISED AIRNAV DATA.
28. CHANGES FROM P-NOTAM FOR AMDT 1A INCORPORATED INTO FORM - REQUIRED IAW 8260.19I PARA 8-3-4C(3)

COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

HAI

NBAA

X

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

OFFICE

DATE

DEVELOPED BY

JAMES ROGERS

Digitally signed by

JAMES ROGERS

Jun 16, 2022

MARK D ADAMS

Jun 30, 2022

OFFICE

AJV-A412

DATE

04/08/2022

APPROVED BY

JULIE MORGAN

Digitally signed by

MARK D ADAMS

Jun 30, 2022

OFFICE

AJV-A410

DATE

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	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	460559.1580N
LTP/FTP LONGITUDE	1181635.3615W
LTP/FTP ELLIPSOIDAL HEIGHT	+03436
FPAP LATITUDE	460447.2625N
FPAP LONGITUDE	1181750.9375W
THRESHOLD CROSSING HEIGHT (TCH)	00049.9
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	64424AF0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03641
FPAP ORTHOMETRIC HEIGHT	+03641