

**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.

AIRPORT YAKIMA AIR TERMINAL/MCALLISTER FIELD	AIRPORT ID KYKM	PROCEDURE NAME RNAV (GPS) X RWY 27	ORIGINAL/AMENDMENT 1E	CITY YAKIMA	STATE WA
AIRPORT ELEVATION 1099	TDZE 1068	SUPERSEDED RNAV (GPS) X RWY 27	ORIGINAL/AMENDMENT 1D	DATED 03/01/2018	MAG VAR 16E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 13 SEPTEMBER 2018	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL SUSPEND	EPOCH YEAR 2010

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SELAH		OPISE		TF	FO	2.00	114.52	21.02	5400
MARRK	IAF	OPISE	NOPT	TF	FB	1.00	258.57	8.24	4700
SUNED	IAF	OPISE	NOPT	TF	FB	1.00	305.56	13.64	4700
OPISE	IF/IAF	ZUDAX		TF	FB	1.00	274.27	3.18	3900
ZUDAX		RACOB	PFAF	TF	FB	1.00	274.21	7.37	2900
RACOB	FAF	AGITY/3.40 NM TO RW27		TF	FB	0.30	274.09	2.23	
AGITY/3.40 NM TO RW27		RW27	MAP	TF	FO	0.30	274.09	3.40	
RW27	MAP	2100 MSL		CA			274.09		2100
2100 MSL		GEBTE		DF	FO	1.00			7000

MISSED APPROACH

MAP:

LPV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 7000 DIRECT GEBTE AND HOLD. CONTINUE CLIMB-IN-HOLD TO 7000.
*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 300 FEET PER NM TO 3700.
**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 300 FEET PER NM TO 4900.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

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

2. HOLD E OPISE, LT, 274.27 INBOUND, 4700 FT. IN LIEU OF PT (IAF), MAX 6000.

3. **FAC:** 274.09 **PFAF:** RACOB **DIST PFAF TO MAP:** 5.63 **DIST PFAF TO THLD:** 5.63

4. **MIN ALT:** OPISE 4700, ZUDAX 3900, RACOB 2900, AGITY/3.40 NM TO RW27 2180*

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

6. **MIN GP INCPT:** 2900 **GP ALT AT PFAF :** RACOB 2900 **OM:** **MM:** **IM:**

7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 57.0

8. **MSA FROM:** RW27 8200

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART NOTE: CIRCLING NA S OF RWYS 9 AND 27.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SELAH ON V298 NORTHWEST BOUND, V468 NORTHBOUND, AND T261 NORTHWEST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MARRK ON V204 EASTBOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SUNED ON V4-298 SOUTHEAST BOUND, V497 NORTHEAST BOUND, AND V497 SOUTHBOUND.
 CHART NOTE: *RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
 CHART PLANVIEW NOTE: SELAH TRANSITION NA WHEN R-6714 A, C, D ACTIVE.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 1 3/4 SM.

ADDITIONAL FLIGHT DATA:

CHART: 1853 TOWER 463154N/1202718W
 CHART: 1283 TOWER 463328N/1202709W
 CHART CIRCLING ICON.
 CHART R-6714A, B, C, D
 CHART VDP AT 0.92 NM TO RW27*
 *LNAV ONLY
 WAAS CHANNEL #90512
 REFERENCE PATH ID: W27A
 CHART FAS OBST: 1131 TREE 463422N/1203146W.
 CHART: 1870 POLE 463115N/1202502W.
 HOLD S, LT, 015.00 INBOUND
 LTP HAE: 298.5 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 800-2 1/4, CAT D 1200-3



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
LPV DA*	1268	2400	200	1268	2400	200	1268	2400	200	1268	2400	200				
LPV DA	1668	1 1/4	600	1668	1 1/4	600	1668	1 1/4	600	1668	1 1/4	600				
LNAV MDA**	1400	2400	332	1400	2400	332	1400	2600	332	1400	2600	332				
LNAV MDA	1720	2400	652	1720	2400	652	1720	1 3/8	652	1720	1 3/8	652				
CIRCLING	1720	1	621	1720	1	621	1880	2 1/4	781	2280	3	1181				

CHANGES - REASONS

1. ADDED CHART NOTE: "PBN EQUIPMENT REQUIREMENT NOTE: RNP APCH" - EQUIPMENT REQUIREMENTS NOTE APPLIED PER 8260.58A, CHANGE 1.
2. DELETED CHART NOTE: DME/DME RNP-0.3 NA - 8260.19H, PARA 1-1-5F(14), REMOVED THE REQUIREMENT FOR THIS NOTE.
3. CHANGED MISSED APPROACH TERMINATION/CLIMB-IN-HOLDING ALTITUDE FROM "6500" TO "7000" - AIRSPACE REQUIREMENTS RAISED THE MISSED APPROACH HOLDING FROM 6500 TO 6600. PRECIPITOUS TERRAIN ADJUSTMENT OF 340 FEET WAS ADDED TO CONTROLLING OBSTACLE MAKING MINIMUM HOLDING ALTITUDE 6700. 7000 USED TO ROUND OFF HOLDING ALTITUDE.
4. COMBINED RNAV (GPS) W RWY 27 AND RNAV (GPS) X RWY 27 ONTO ONE PLATE. PROCEDURE NAMED RNAV (GPS) X RWY 27 - RNP PROCEDURE TO SAME RUNWAY HAS DESIGNATION OF "Y" DUE TO HIGHER MINIMUMS.
5. CHANGED INTERMEDIATE SDF ZUDAX START ALTITUDE FROM "3700" TO "3900" - HIGHEST TERRAIN WITHIN THE SEGMENT HAS CHANGED FROM "2209" TO "2438" RAISING THE MINIMUM ALTITUDE REQUIREMENT.
6. CHANGED LNAV MISSED APPROACH CLIMB GRADIENT FROM "MISSED APPROACH REQUIRES MINIMUM CLIMB OF 290 FEET PER NM TO 4100" TO "MISSED APPROACH REQUIRES MINIMUM CLIMB GRADIENT OF 300 FEET PER NM TO 4900" - NEW CONTROLLING OBSTACLE HAS RAISED THE MINIMUM CLIMB GRADIENT.
7. ADDED TO LINE 7 "20:1 IS CLEAR" - 20:1 AND 34:1 SURFACE CONDITIONS ARE REQUIRED TO BE SHOWN.
8. CRC REMAINDER CHANGED FROM "1FB67059" TO "1620C506" - FAF LOCATION MOVED TO ACHIEVE 3.00 DESCENT GRADIENT.
9. CHANGED CHART NOTE FROM "FOR INOP ALS, INCREASE LPV DA ALL CATS VISIBILITY TO 1 5/8 SM" TO "FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 1 3/4 SM" - CHANGE ATTRIBUTED TO UPDATED NO LIGHT VISIBILITY MINIMA.
10. WAIVER ASSOCIATED WITH REQUIREMENTS FOR LNAV/VNAV MINIMUMS TO BE PUBLISHED ALONG WITH LPV MINIMA HAS BEEN RESCINDED - UPDATED REQUIREMENTS IN 8260.58A, CHG 1 AND 8260.19H NO LONGER REQUIRE THIS PROCEDURE.



COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZSE, CHINOOK APP CON, YKM ATCT, AMGR

FLIGHT CHECKED BY

SCOTT A THOMPSON

Digitally signed by

DAVID TEFFETELLER

Jun 25, 2018

OFFICE

FICO

DATE

6/19/18

DEVELOPED BY

JAMES LAFFERTY

Digitally signed by

JAMES LAFFERTY

Apr 30, 2018

OFFICE

AJV-5433

DATE

04/19/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

DAVID TEFFETELLER

Jun 25, 2018

OFFICE

AJV-5430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KYKM
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	X
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	463355.5310N
LTP/FTP LONGITUDE	1203152.0795W
LTP/FTP ELLIPSOIDAL HEIGHT	+02985
FPAP LATITUDE	463425.9750N
FPAP LONGITUDE	1203353.4450W
THRESHOLD CROSSING HEIGHT (TCH)	00057.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0432
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 1620C506

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03197
FPAP ORTHOMETRIC HEIGHT	+03197

