

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**RNAV (RNP) 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> KMWH	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 4	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> MOSES LAKE	<u>STATE</u> WA		
<u>AIRPORT ELEVATION</u> 1189	<u>TDZE</u> 1189	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 4	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 07/21/2016	<u>MAG VAR</u> 18E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 24 MARCH 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
EDSEW	IAF	ZIRVO		TF	FB	1.00	076.82	11.13	3800
ZIRVO		HUSMI		RF	FB	0.30	(3.20 NM RADIUS CCW (CFPPL))	2.29	3300
RUBEL	IAF	ONPIC		TF	FB	1.00	027.43	4.80	4300
ONPIC		WESKO		TF	FB	0.30	036.01	2.20	3800
WESKO		HUSMI		TF	FB	0.30	036.04	2.00	3300
HUSMI	IF	UBGUY	PFAF	TF	FB	0.30	036.07	2.10	2800
UBGUY	PFAF	RW04	MAP	TF	FO	0.30	036.10	4.90	
RW04	MAP	YELUG		TF	FB	1.00	036.17	8.00	
YELUG		WIPES		TF	FO	1.00	359.95	8.73	4000

**MISSED APPROACH**

**MAP:**  
 RNP: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 ON TRACK 036.17 TO YELUG AND TRACK 359.95 TO WIPES AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
10  
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT HUSMI

3. FAC: 036.10

PFAF: UBGUY

DIST PFAF TO MAP:

DIST PFAF TO THLD:

4. MIN ALT: HUSMI 3300, UBGUY 2800

5. DIST TO THLD FROM PFAF: 4.90

MM:

IM:

150 HAT:

360 HAT: 0.97

GS ANT:

6. MIN GP INCPT: 2800

GP ALT AT PFAF : UBGUY 2800

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 50.0

8. MSA FROM: RW04 4300

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EDSEW ON V2 WEST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RUBEL ON V448 SOUTHWEST BOUND  
CHART PLANVIEW NOTE AT ZIRVO: DO NOT EXCEED 210 KIAS UNTIL HUSMI.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 239.61 INBOUND.

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
AUTHORIZATION REQUIRED															
RNP 0.10 DA	1549	1	360	1549	1	360	1549	1	360	1549	1	360			
RNP 0.30 DA	1644	1 3/8	455	1644	1 3/8	455	1644	1 3/8	455	1644	1 3/8	455			



**CHANGES - REASONS**

1. INCORPORATED NOTAM 1/1305 - DA/HATS CHANGED
2. TERMINAL ROUTES: CHANGED RF SEGMENT ZIRVO TO HUSMI CNF FIX NAME FROM IYWUH TO CFPPL - NEW CNF FIX NAMING CRITERIA
3. MISSED APPROACH: CHANGED MAP FROM "MAP: DA" TO "RNP: DA" - 8260.19I 8-6-6. C. (1)
4. MISSED APPROACH: CHANGED MA INSTRUCTIONS FROM "CLIMB TO 4000 ON TRACK 036.16 TO YELUG AND ON TRACK 359.95 TO WIPES AND HOLD" TO "CLIMB TO 4000 ON TRACK 036.17 TO YELUG AND ON TRACK 359.95 TO WIPES AND HOLD" - NEW TARGETS BUILD
5. PROFILE LINE 5: ADDED DISTANCE TO THLD FROM 360 HAT: 0.97 AND REMOVED FROM ADDITIONAL FLIGHT DATA "DISTANCE TO THLD FROM 250 HATH: 0.63 NM" - NEW CRITERIA FORMAT/NEW HAT
6. PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO 20:1 OBSTACLE PENETRATIONS
7. LANDING MINIMUMS: CHANGED RNP 0.10 DA/HAT/VIS FROM "1439/250/ 3/4" TO "1549/360/1" - NEW CONTROLLING OBSTACLE/MA PENETRATOR/VISIBILITY CHECKS
8. LANDING MINIMUMS: CHANGED RNP 0.30 DA/HAT/VIS FROM "1498/309/1" TO "1644/455/1 3/8" - NEW CONTROLLING OBSTACLE/MA PENETRATOR/VISIBILITY CHECKS
9. NOTES/EQUIPMENT REQUIREMENTS: ADDED "RNP AR APCH - GPS. FROM EDSEW: RF" AND REMOVED "CHART PLANVIEW NOTE ADJACENT TO EDSEW: RF REQUIRED" AND "CHART GPS REQUIRED"; REMOVED "ROUTE TYPE; A, R", "ROUTE TYPE QUALIFIER1: P" AND "ROUTE TYPE QUALIFIER2: S" FROM ADDITIONAL FLIGHT DATA - NEW PBN DESIGNATIONS AND FORMAT
10. NOTES: CHANGED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -17C (2F) OR ABOVE 46C (114F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C OR ABOVE 54C" - NEW 5-YR HISTORICAL TEMPERATURE CALCULATION
11. NOTES: CHANGED FROM "CHART PLANVIEW NOTE AT ZIRVO: MAX 210 KIAS" TO "CHART PLANVIEW NOTE AT ZIRVO: DO NOT EXCEED 210 KIAS UNTIL HUSMI." - 8260.19I, 4-6-10. NEW FORMAT
12. ADDITIONAL FLIGHT DATA: REMOVED #TCH 1238.6 (DO NOT CHART)" - NO LONGER REQUIRED BY CRITERIA
13. ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - NEW FORMAT PER 8260.19I, 8-6-11

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZSE, MWH ATCT, MWH APP CON, AMGR

*Digitally signed by***JON DENTON**

Nov 09, 2021

**FLIGHT CHECKED BY**

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

JOEL F HAWKLEY

*Digitally signed by***OFFICE**

FPO

**DATE**

12/15/2021

**DEVELOPED BY**

APRIL SARMENTO

**APRIL T SARMENTO**

Oct 28, 2021

**OFFICE**

AJV-A432

**DATE**

10/28/2021

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by***JON DENTON**

Nov 09, 2021

**OFFICE**

AJV-A430

**DATE****TITLE**  
MANAGER

QUALITY  
10  
CHECKED