

**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 32R	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> MOSES LAKE	<u>STATE</u> WA		
<u>AIRPORT ELEVATION</u> 1189	<u>TDZE</u> 1167	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 32R	<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>
SUBDY		WIDKO		TF	FB	2.00	201.37	10.24	7700
WIDKO	IAF	HIXOS		TF	FB	1.00	201.25	10.00	5100
HIXOS		ZETEK		RF	FB	0.30	(3.40 NM RADIUS CW (CFFXX))	7.31	2900
UPBOB		IWKID		TF	FB	2.00	281.59	7.59	4000
IWKID	IAF	ZOBLI		TF	FB	1.00	324.21	4.52	3100
ZOBLI		ZETEK		TF	FB	0.30	324.19	1.00	2900
FEBUS		JIBOD		TF	FB	2.00	055.99	13.77	7100
JIBOD	IAF	ZONOK		TF	FB	1.00	056.23	10.00	4500
COYYA		PLUSS		TF	FB	2.00	093.13	11.77	8000
PLUSS	IAF	CUSPI		TF	FB	1.00	128.44	10.14	6000
CUSPI		ZONOK		RF	FB	0.30	(3.70 NM RADIUS CCW (CFRTT))	4.66	4500
ZONOK		ZETEK		RF	FB	0.30	(3.40 NM RADIUS CCW (CFPHH))	5.48	2900
ZETEK	IF	ZAVYO	PFAF	TF	FB	0.30	324.18	2.04	2800
ZAVYO	PFAF	RW32R	MAP	TF	FO	0.30	324.17	4.96	<div style="text-align: center;"> QUALITY 10 CHECKED </div>
RW32R	MAP	FORWY		TF	FB	1.00	324.15	6.72	
FORWY		WEPMO		RF	FB	1.00	(4.70 NM RADIUS CW (CFLCK))	14.33	
WEPMO		BATUM		TF	FO	1.00	138.79	5.94	4000

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	1417	2400	250	1417	2400	250	1417	2400	250	1417	2400	250			
RNP 0.30 DA	1564	3500	397	1564	3500	397	1564	3500	397	1564	3500	397			

CHANGES - REASONS

1. INCORPORATED NOTAM 1/1300 - DA/HAT CHANGED
2. TERMINAL ROUTES: RF SEGMENT HIXOS TO ZETEK CHANGED CNF FIX NAME FROM IZOSY TO CFFXX - NEW CNF NAMING CRITERIA
3. TERMINAL ROUTES: RF SEGMENT CUSPI TO ZONOK CHANGED CNF FIX NAME FROM ITVIW TO CFRTT - NEW CNF NAMING CRITERIA
4. TERMINAL ROUTES: RF SEGMENT ZONOK TO ZETEK CHANGED CNF FIX NAME FROM ITXOJ TO CFPHH - NEW CNF NAMING CRITERIA
5. TERMINAL ROUTES: RF SEGMENT FORWY TO WEPMO CHANGED CNF FIX NAME FROM QUJRI TO CFLCK - NEW CNF NAMING CRITERIA
6. TERMINAL ROUTES: MISSED APPROACH TF SEGMENT RW32R TO FORWY HEADING CHANGED FROM 324.14 TO 324.15 AND THE MISSED APPROACH RF SEGMENT FORWY TO WEPMO DISTANCE CHANGED FROM 14.32 TO 14.33 - NEW TARGETS EVALUATION
7. MISSED APPROACH: CHANGED MAP FROM "MAP: DA" TO "RNP: DA" - 8260.19I 8-6-6. C. (1)
8. PROFILE LINE 5: ADDED DISTANCE TO THLD FROM 250 HAT: 0.61 AND REMOVED FROM ADDITIONAL FLIGHT DATA "DISTANCE TO THLD FROM 250 HATH: 0.61 NM" - NEW CRITERIA FORMAT/NEW HAT
9. PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO 20:1 OBSTACLE PENETRATIONS
10. LANDING MINIMUMS: CHANGED RNP 0.30 DA/HAT/RVR FROM "1533/366/40" TO "1546/397/35" - NEW CONTROLLING OBSTACLE/MA PENETRATOR/VISIBILITY CHECKS
11. NOTES/EQUIPMENT REQUIREMENTS: ADDED "RNP AR APCH - GPS, RF. FROM HIXOS OR CUSPI: RF"; REMOVED "RF REQUIRED" AND "GPS REQUIRED" FROM NOTES; REMOVED "ROUTE TYPE; A, R", "ROUTE TYPE QUALIFIER1: P" AND "ROUTE TYPE QUALIFIER2: S" FROM ADDITIONAL FLIGHT DATA - NEW PBN DESIGNATIONS AND FORMAT
12. 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
13. NOTES: CHANGED FROM "CHART PLANVIEW NOTE AT CUSPI, ZONOK, HIXOS: MAX 210 KIAS." TO "CHART PLANVIEW NOTE AT CUSPI: DO NOT EXCEED 210 KIAS UNTIL ZONOK" AND "CHART PLANVIEW NOTE AT ZONOK/HIXOS: DO NOT EXCEED 210 KIAS UNTIL ZETEK" - 8260.19I, 4-6-10. G. NEW FORMAT
14. NOTES: REMOVED "CHART PLANVIEW NOTE FROM "COYYA/FEBUS/SUBDY/UPBOB: (RNP 0.30)" - NOT REQUIRED BY CRITERIA
15. NOTES: CHANGED CHART PROFILE NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})."
16. NOTES: CHANGED "CHART NOTE: FOR INOPERATIVE MALSR INCREASE RNP 0.10 VISIBILITY ALL CATS TO RVR 4000, INCREASE RNP 0.30 VISIBILITY ALL CATS TO RVR 6000." TO "CHART NOTE: FOR INOPERATIVE ALS INCREASE RNP 0.10 VISIBILITY ALL CATS TO RVR 4000, INCREASE RNP 0.30 VISIBILITY ALL CATS TO RVR 6000.
17. NOTES: CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT SUBDY ON V2-448 EASTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT SUBDY ON T268 AND V2-448 NORTHEAST BOUND" - NEW RNAV ROUTE/AIRWAY HEADING 232 IS A NE DIRECTION
18. ADDITIONAL FLIGHT DATA: REMOVED #TCH 1221.8 MSL (DO NOT CHART)" - NO LONGER REQUIRED BY CRITERIA
19. ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - NEW FORMAT PER 8260.19I, 8-6-11



AIRPORT ID
KMWH

PROCEDURE NAME
RNAV (RNP) Z RWY 32R

ORIGINAL/AMENDMENT
ORIG-B

CITY
MOSES LAKE

STATE
WA

COORDINATED WITH:

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

Digitally signed by
JON DENTON

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

DEVELOPED BY

APRIL SARMENTO

APRIL T SARMENTO

Oct 06, 2021

OFFICE

FPO

DATE

12/15/2021

OFFICE

AJV-A432

DATE

10/01/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

JON DENTON

Nov 09, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

QUALITY
10
CHECKED