

**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> KMWH	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 32R	<u>ORIGINAL/AMENDMENT</u> 3D	<u>CITY</u> MOSES LAKE	<u>STATE</u> WA		
<u>AIRPORT ELEVATION</u> 1189	<u>TDZE</u> 1167	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 32R	<u>ORIGINAL/AMENDMENT</u> 3C	<u>DATED</u> 05/20/2021	<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>
MWH VOR/DME		IWKID		TF	FO	1.00	144.57	13.78	4000
FEBUS		PEWYE		TF	FB	1.00	062.70	19.62	4000
SUBDY		YUNUV		TF	FB	1.00	187.27	18.71	4100
PEWYE	IAF	IWKID	NOPT	TF	FB	1.00	054.08	7.90	4000
YUNUV	IAF	IWKID	NOPT	TF	FB	1.00	234.37	9.50	4000
UPBOB	IAF	IWKID	NOPT	TF	FB	1.00	281.59	7.59	4000
ODECE	IAF	IWKID	NOPT	TF	FB	1.00	352.41	6.75	4000
IWKID	IF/IAF	ZAVYO	PFAF	TF	FB	1.00	324.21	7.56	2800
ZAVYO	FAF	UKMEZ/1.60 NM TO RW32R		TF	FB	0.30	324.17	3.36	
UKMEZ/1.60 NM TO RW32R		RW32R	MAP	TF	FO	0.30	324.17	1.60	
RW32R	MAP	1367 MSL		CA			324.17		
1367 MSL		JUKRI		DF	FO	1.00			4000

QUALITY
10
CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT JUKRI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SE IWKID, RT, 324.21 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	324.17	PFAF: ZAVYO	DIST PFAF TO MAP: 4.96		DIST PFAF TO THLD: 4.96
4. MIN ALT: IWKID 4000, ZAVYO 2800, UKMEZ/1.60 NM TO RW32R 1720					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.46	GS ANT:
6. MIN GP INCPT:	2800	GP ALT AT PFAF :	ZAVYO 2800	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 55.3	IM:
8. MSA FROM: RW32R 4200					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MWH VOR/DME ON V497 NORTHBOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 9/27, 18/36 NA AT NIGHT
CHART NOTE: #RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING EPHRATA ALTIMETER SETTING)
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500, INCREASE LNAV CAT C AND D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD NW, LT, 144.05 INBOUND.
CHART FAS OBST: 1301 TANK (53-022133) 471102N/1191915W.
WAAS CHANNEL # 77799
REFERENCE PATH ID: W32A
CHART CIRCLING ICON.
LTP HAE: 334.9 M



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
LPV DA#	1367	2400	200	1367	2400	200	1367	2400	200	1367	2400	200			
LNAV/VNAV DA	1540	3500	373	1540	3500	373	1540	3500	373	1540	3500	373			
LNAV MDA	1620	2400	453	1620	2400	453	1620	4500	453	1620	4500	453			
CIRCLING	1660	1	471	1660	1	471	1680	1 1/2	491	1820	2	631			

CHANGES - REASONS

- INCORPORATED NOTAM 1/1300 - DA/HAT CHANGED
- TERMINAL ROUTES: SEGMENT UKMEZ TO RW32R AND RW32R TO 1367 MSL COURSE CHANGED FROM 324.15 TO 324.17 - NEW EVALUATION
- PROFILE LINE 2: ADDED MAX 6000 - CRITERIA UPDATE .19I 8-6-7. B. (2).
- PROFILE LINE 4 MIN ALT: REMOVED ASTERISK FROM RW32R 1720*AND REMOVED *LNAV ONLY FROM PROFILE VIEW - NO LONGER REQUIRED TO BE CHARTED FOR LNAV ONLY
- PROFILE LINE 5: ADDED DISTANCE TO THLD FROM 200 HAT 0.46 AND REMOVED FROM ADDITIONAL FLIGHT DATA "DISTANCE TO THLD FROM 200 HATH: 0.46 NM" - NEW CRITERIA FORMAT/NEW HAT
- PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO 20:1 OBSTACLE PENETRATIONS
- PBN REQUIREMENTS NOTE: CHANGED FROM "RNP APCH" TO "RNP APCH - GPS" - NEW PBN DESIGNATIONS
- NOTES: CHANGED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 36C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C" - NEW 5-YR HISTORICAL TEMPERATURE CALCULATION
- NOTES: CHANGED "CHART NOTE: FOR INOP MALSR INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500 AND LNAV CATS C AND D VISIBILITY TO 1 3/8 MILES" TO "CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500, INCREASE LNAV CAT C AND D VISIBILITY TO 1 3/8 SM" - NEW VISIBILITY CHECKS
- NOTES: REMOVED BACKUP ALTIMETER SETTING AND ALL ASSOCIATED NOTES - MOVED TO -9 AS A CONTINGENCY
- NOTES: ADDED CHART NOTE CIRCLING RWY 9/27, 18/36 NA AT NIGHT - 20:1 PENETRATIONS ASSUMED
- NOTES: CHANGED CHART PROFILE NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})."
- ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED
- ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "1306 WATER TOWER 471102N/1191914W" TO "1301 TANK (53-022133) 471102N/1191915W." - NEW CONTROLLING OBSTACLE SURVEY - 8260.19I, 8-6-10. S.
- LANDING MINIMUMS: CHANGED LNAV/VNAV DA/HAT/RVR FROM "1517/350/30" TO "1540/373/35" - NEW CONTROLLING OBSTACLE/VISIBILITY CHECKS
- CRC REMAINDER CHANGED FROM 5781962C TO BBD5DE36 - FPAP LAT/LONG CHANGED FROM 471332.3800N/1191935.4200W TO 471332.3775N/1191935.4355W

COORDINATED WITH:

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

FLIGHT CHECKED BY

JOEL F HAWKLEY

DEVELOPED BY

APRIL SARMENTO

APPROVED BY

LONNIE EVERHART

Digitally signed by

JON DENTON

Dec 16, 2021

OFFICE

FPO

DATE

12/15/2021

OFFICE

AJV-A432

DATE

10/29/2021

Digitally signed by

JON DENTON

Dec 16, 2021

OFFICE

AJV-A430

DATE

QUALITY
10
CHECKED

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMWH
RUNWAY	RW32R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	471125.5350N
LTP/FTP LONGITUDE	1191835.4215W
LTP/FTP ELLIPSOIDAL HEIGHT	+03349
FPAP LATITUDE	471332.3775N
FPAP LONGITUDE	1191935.4355W
THRESHOLD CROSSING HEIGHT (TCH)	00055.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	115.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	BBD5DE36

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03555
FPAP ORTHOMETRIC HEIGHT	+03555

