

**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.

<b>AIRPORT ID</b> MWH	<b>PROCEDURE NAME</b> RNAV (GPS) Y RWY 22	<b>ORIGINAL/AMENDMENT</b> 1D	<b>CITY</b> MOSES LAKE	<b>STATE</b> WA
<b>AIRPORT ELEVATION</b> 1189	<b>TDZE</b> 1166	<b>SUPERSEDED</b> RNAV (GPS) Y RWY 22	<b>DATED</b> 05/20/2021	<b>MAG VAR</b> 18E
<b>FACILITY</b> RNAV	<b>COORDINATES OF FACILITIES</b>	<b>ACTUAL EFFECTIVE DATE</b>	<b>REQUIRED EFFECTIVE DATE</b> ROUTINE	<b>EPOCH YEAR</b> 1995
				<b>CANCEL/SUSPEND</b>

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
EPH VORTAC		MALEE		TF	FO	1.00	085.31	14.52	4000
MWH VOR/DME		MALEE		TF	FO	1.00	037.65	11.82	4000
SUBDY	IAF	MALEE	NOPT	TF	FB	1.00	252.00	11.29	4000
MALEE	IF/IAF	I PROF		TF	FB	1.00	216.36	6.19	2800
I PROF	FAF	EVUCU/2.30 NM TO RW22		TF	FB	0.30	216.27	2.71	
EVUCU/2.30 NM TO RW22		RW22	MAP	TF	FO	0.30	216.27	2.30	
RW22	MAP	1366 MSL		CA			216.27		
1366 MSL		ONPIC		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW22

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT ONPIC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- HOLD NE MALEE, RT, 216.36 INBOUND, 4000 IN LIEU OF PT (IAF), MAX 10000.
- FAC:** 216.27                      **FAF:** I PROF                      **DIST FAF TO MAP:** 5.01                      **DIST FAF TO THLD:** 5.01
- MIN ALT:** MALEE 4000, I PROF 2800, EVUCU/2.30 NM TO RW22 1920
- DIST TO THLD FROM PFAF:** 5.01                      **MM:**                      **IM:**                      **150 HAT:**                      **200 HAT:** 0.51                      **GS ANT:**
- MIN GP INCPT:** 2800                      **GP ALT AT PFAF:** I PROF 2800                      **OM:**                      **MM:**                      **IM:**
- GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 50.0
- MSA FROM:** RW22 4200



**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING EPH ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EPH VORTAC AIRWAY RADIALS 060 CW 135.

CHART NOTE: CIRCLING RWY 9, 27, 18, 36 NA AT NIGHT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EPH ALTIMETER SETTING AND INCREASE LPV DA TO 1402 FEET; INCREASE LNAV/VNAV DA TO 1465 FEET; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM AND CIRCLING VISIBILITY CAT D 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD SW, RT, 036.01 INBOUND.

FAS OBST: 1317 TREE 471336N/1191454W.

CHART VDP AT 1.18 NM TO RW22.

WAAS CHANNEL # 70410

REFERENCE PATH ID: W22A

LTP HAE: 331 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

<b><u>CATEGORY:</u></b>	<b><u>A</u></b>			<b><u>B</u></b>			<b><u>C</u></b>			<b><u>D</u></b>			<b><u>E</u></b>		
<b><u>FINAL TYPE</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>
LPV DA	1366	3/4	200	1366	3/4	200	1366	3/4	200	1366	3/4	200			
LNAV/VNAV DA	1429	7/8	263	1429	7/8	263	1429	7/8	263	1429	7/8	263			
LNAV MDA	1580	1	414	1580	1	414	1580	1 1/8	414	1580	1 1/8	414			
CIRCLING	1660	1	471	1660	1	471	1720	1 1/2	531	1840	2	651			



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM P-NOTAM AMDTS INTO FORM. - IAW 8260.19K 8-3-4 C(3).
2. INCREASED LNAV MDA/HAT FROM 1500/334 TO 1580/414; VISIBILITY CATS C AND D FROM 1TO 1 1/8 SM. – NEW CONTROLLING OBSTACLE; TO REMOVE NOTAM 5/3173.
3. INCREASED CIRCLING CAT C MDA/HAA FROM 1680/491 TO 1720/531; CAT D FROM 1820/631 TO 1840/651. - NEW CONTROLLING OBSTACLE.
4. TERMINAL ROUTES: UPDATED FINAL SEGMENT EVUCU TO RW22 COURSE FROM 216.23 TO 216.27. - NEW EVALUATION COMPLETED.
5. TERMINAL ROUTES: INCREASED CA LEG ALTITUDE FROM 1353 TO 1366 MSL; UPDATED COURSE FROM 216.23 TO 216.27. - LOWEST DA, MDA OR 400FT ABOVE AIRPORT ELEVATION; NEW EVALUATION COMPLETED.
6. ADDED "CONTINUE TO CLIMB-IN-HOLD TO 4000" TO MISSED APPROACH INSTRUCTION. – CLIMB-IN-HOLD REQUIRED.
7. LINE 2: ADDED MAX ALTITUDE 10000. – UPDATED FORMS.
8. LINE 4: REMOVED \*, AND \*LNAV ONLY FROM ADDITIONAL FLIGHT DATA. – NO LONGER REQUIRED.
9. LINE 5: ADDED DIST TO THLD FROM PFAF: 5.01; 200 HAT: 0.51. REMOVED "DISTANCE TO THLD FROM 200 HATH: 0.47 NM" FROM ADDITIONAL FLIGHT DATA. – IAW 8260.19K 8-6-7 E; UPDATED EVALUATION; FORMS UPDATED.
10. LINE 7: ADDED 20:1 IS CLEAR. – NO 20:1 PENETRATIONS FOUND.
11. UPDATED PBN REQUIREMENTS NOTES: FROM RNP APCH TO RNP APCH – GPS. - IAW 8260.19K 8-6-8 B(2).
12. UPDATED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA FROM "BELOW 17C OR ABOVE 36C" TO "BELOW 17C OR ABOVE 54C." – NEW EVALUATION COMPLETED WITH DOCUMENTED STANDARD -30C ISA.
13. UPDATED CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FROM "EPHRATA ALTIMETER SETTING" TO "EPH ALTIMETER SETTING." - IAW 8260.19J 8-6-10E(8).
14. ADDED CHART NOTE: CIRCLING RWY 9, 27, 18, 36 NA AT NIGHT. - NO SURVEY.
15. UPDATED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, FROM "USE EPHRATA ALTIMETER SETTING; INCREASE ALL DA 36 FEET AND ALL MDA 40 FEET, INCREASE LNAV/VNAV ALL CATS VISIBILITY AND LNAV CATS C AND D VISIBILITY 1/8 SM AND CIRCLING CAT D VISIBILITY 1/4 SM" TO "USE EPH ALTIMETER SETTING AND INCREASE LPV DA TO 1402 FEET; INCREASE LNAV/VNAV DA TO 1465 FEET; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM AND CIRCLING VISIBILITY CAT D 1/4 SM." – UPDATED EVALUATION; IAW 8260.19J 8-6-10F(4).
16. UPDATED ADDITIONAL FLIGHT DATA FROM "CHART FAS OBST: FROM 1244 POWERLINE 471403N1191636W" TO "FAS OBST: 1317 TREE 471336N/1191454W." - NEW NON-PRECISION CONTROLLING OBSTACLE.
17. UPDATED ADDITIONAL FLIGHT DATA: CHART VDP FROM "AT 1.05" TO "AT 1.18" TO RW22. - NEW EVALUATION COMPLETED.
18. FAS DATA: UPDATED FPAP LONGITUDE FROM 1191958.5300W TO 1191958.5415W. – NEW AIRNAV DATA INCORPORATED.
19. FAS DATA: UPDATED CRC REMAINDER FROM A0522291 TO 1848D29E. – NEW FPAP LONGITUDE.

**COORDINATED WITH:**

A4A  
  ALPA  
  AOPA  
  APA  
  HAI  
  NBAA

**OTHER:** ZSE, MWH APP CON, MWH ATCT, AMGR

**FLIGHT CHECKED BY**

WILLIAM M YINGLING

*Digitally signed by*

**CASIMIR L TABAKA**

Jan 16, 2026

**OFFICE**

AJF

**DATE**

01/14/2026

**DEVELOPED BY**

CASIMIR L. TABAKA (BARBARA GORMAN)

*Digitally signed by*

**CASIMIR L TABAKA**

Jan 16, 2026

**OFFICE**

AJV-A432

**DATE**

08/18/2025

**APPROVED BY**

CASIMIR L. TABAKA

*Digitally signed by*

**CASIMIR L TABAKA**

Jan 16, 2026

**OFFICE**

AJV-A430

**DATE**

**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	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	471245.9835N
LTP/FTP LONGITUDE	1191801.0980W
LTP/FTP ELLIPSOIDAL HEIGHT	+03310
FPAP LATITUDE	471148.2300N
FPAP LONGITUDE	1191958.5415W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 1848D29E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03516
FPAP ORTHOMETRIC HEIGHT	+03516

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
MWH	RNAV (GPS) Y RWY 22	1D	MOSES LAKE	WA	1189	RNAV

**PART A: OBSTRUCTION DATA SEGMENTS**

**FEEDER**

**FROM** EPH VORTAC **TO** MALEE

**RNP** 1.00      **DISTANCE** 14.52      **PAT**      **MAP**      **HAT**      **HMAS**

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	472027.00N/1190312.00W	1851	164	98	4E	2000				AT149	4000
TERRAIN	472115.00N/1190433.00W	1579 (1600)								AS1500	3100

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**FEEDER**

**FROM** MWH VOR/DME **TO** MALEE

**RNP** 1.00      **DISTANCE** 11.82      **PAT**      **MAP**      **HAT**      **HMAS**

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	471904.95N/1190254.36W	1879	100	125	3E	2000				AT121	4000
TERRAIN	471854.00N/1190421.00W	1582 (1600)								AS1500	3100

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



**AIRPORT ID**  
MWH

**PROCEDURE NAME**  
RNAV (GPS) Y RWY 22

**AMDT NO.**  
1D

**CITY**  
MOSES LAKE

**STATE**  
WA

**AIRPORT ELEVATION**  
1189

**FACILITY**  
RNAV

**INITIAL**

**FROM**  
SUBDY

**TO**  
MALEE

**RNP**  
1.00

**DISTANCE**  
11.29

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
AAO	471739.00N/1184639.00W	2057	164	98	4E	1000				AT943	4000
TERRAIN	471724.00N/1184824.00W	1825 (1800)								AS1500	3300

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**INTERMEDIATE**

**FROM**  
MALEE (IF/IAF)

**TO**  
IPROF

**RNP**  
1.00

**DISTANCE**  
6.19

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
AAO	471904.95N/1190254.36W	1879	50	20	2C	500				AT421	2800
TERRAIN	471854.00N/1190430.00W	1572 (1600)								AS1000	2600

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
MWH

**PROCEDURE NAME**  
RNAV (GPS) Y RWY 22

**AMDT NO.**  
1D

**CITY**  
MOSES LAKE

**STATE**  
WA

**AIRPORT ELEVATION**  
1189

**FACILITY**  
RNAV

**FINAL: LPV**

**FROM**  
IPROF

**TO**  
RW22

**RNP**  
0.30

**DISTANCE**  
5.01

**PAT**

**MAP**  
DA

**HAT**  
200

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC				1366

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**FINAL: LNAV/VNAV**

**FROM**  
IPROF

**TO**  
RW22

**RNP**  
0.30

**DISTANCE**  
5.01

**PAT**

**MAP**  
DA

**HAT**  
263

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC			XP13	1429

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

XP 13 TO MAINTAIN CURRENT MINIMUMS



**AIRPORT ID**  
MWH

**PROCEDURE NAME**  
RNAV (GPS) Y RWY 22

**AMDT NO.**  
1D

**CITY**  
MOSES LAKE

**STATE**  
WA

**AIRPORT ELEVATION**  
1189

**FACILITY**  
RNAV

**FINAL: LNAV**

**FROM**  
IPROF

**TO**  
EVUCU/2.30 NM TO RW22

RNP  
0.30

DISTANCE  
2.71

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	471554.00N/1191203.00W	1621	215	8	4B	250				RA36	1920

**COMPUTATIONS**

ALT   KIAS   KTAS   HAA   VKTW   TR   BA   DTA   COURSE CHANGE   DVEB   VEB OCS   RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**FINAL: LNAV STEPDOWN**

**FROM**  
EVUCU/2.30 NM TO RW22

**TO**  
RW22

RNP  
0.30

DISTANCE  
2.30

PAT

MAP  
RW22

HAT  
414

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE	471336.00N/1191454.00W	1317	215	8	4B	250					1580

**COMPUTATIONS**

ALT   KIAS   KTAS   HAA   VKTW   TR   BA   DTA   COURSE CHANGE   DVEB   VEB OCS   RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**





**AIRPORT ID**  
MWH

**PROCEDURE NAME**  
RNAV (GPS) Y RWY 22

**AMDT NO.**  
1D

**CITY**  
MOSES LAKE

**STATE**  
WA

**AIRPORT ELEVATION**  
1189

**FACILITY**  
RNAV

**MISSED APPROACH: LNAV/VNAV**

**FROM**  
DA **TO**  
ONPIC

**RNP** 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
1268

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
TOWER (53-000977)	470628.26N/1193552.79W	1496	20	3	1A	1000				SA-24	2500
TERRAIN	470930.00N/1192906.00W	1259 (1300)								AS1500	2800

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**MISSED APPROACH: LNAV**

**FROM**  
RW22 **TO**  
ONPIC

**RNP** 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
1480

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
TOWER (53-000977)	470628.26N/1193552.79W	1496	20	3	1A	1000				SA-24	2500
TERRAIN	470930.00N/1192906.00W	1259 (1300)								AS1500	2800

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
MWH

**PROCEDURE NAME**  
RNAV (GPS) Y RWY 22

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MOSES LAKE

**STATE**  
WA

**AIRPORT ELEVATION**  
1189

**FACILITY**  
RNAV

**CIRCLING**  ALL CATS  CAT A  CAT B  CAT C  CAT D  CAT E  NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TANK (53-023470)	471017.00N/1191905.73W	1.31	471	1335	20	3	1A	300		XP20	1660
CATEGORY B											
TANK (53-023470)	471017.00N/1191905.73W	1.85	471	1335	20	3	1A	300		XP20	1660
CATEGORY C											
TOWER (53-000467)	470947.60N/1192141.50W	2.91	531	1361	250	50	4D	300		AC50	1720
CATEGORY D											
AAO	471457.00N/1191330.00W	3.81	651	1539	215	8	4B	300			1840

**CIRCLING REMARKS:**

XP=MATCH CURRENT MINS, XP=MATCH CURRENT MINS

**MSA**

**CENTER** **RADIUS**  
RW22 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	472257.00N/1194845.00W	278	23.3	3097	215	8	4B	1000		AT103	4200

**MSA REMARKS:**

**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**

TAA NOT DEVELOPED PER FPT.

MAG VAR NOT CHANGED PER FPT REQUEST (E18/1995, E14/2030).

**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

MWH APP CON, MWH TOWER, ZSE ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	MWH	24	MWH		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	EPH	24	EPH	10.03	Y	36

**WX REMARKS:**

RASS PRESSURE PATTERNS THE SAME  
KMWH 1189, KEPH 1276  
RA = 35.4.



**AIRPORT ID**  
MWH

**PROCEDURE NAME**  
RNAV (GPS) Y RWY 22

**AMDT NO.**  
1D

**CITY**  
MOSES LAKE

**STATE**  
WA

**AIRPORT ELEVATION**  
1189

**FACILITY**  
RNAV

**PRIMARY NAVAID**

**MONITOR POINT**

**HRS OPERATION**

**CAT**

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09		
RW27		
RW14R	BSC-G	
RW18 - MIRL	BSC-G	
RW32L	BSC-G	
RW36 - MIRL	BSC-G	
01H	H-F	
02H	H-F	
RW04 - MIRL, REIL (PCL), PAPI-4L	NPI-G	
RW22 - REIL, MIRL, VASI-4L	NPI-G	
RW14L - HIRL, REIL, PAPI-4L (PCL)	PIR-G	
RW32R - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	

GLIDESLOPE ANGLE  
3.00

ELEV RWY THRESHOLD  
1153.4

TCH  
50.0

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE  
3.00

TCH  
50.4

**FINAL APPROACH COURSE AIMING**

RUNWAY THRESHOLD  
ON CENTERLINE

FT FROM THRESHOLD  
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

**CRITICAL TEMPERATURES**

CRITICAL LOW  
-17C

CRITICAL HIGH  
+54C

ACT  
-17C

APT ISA  
+12.65C

**CRITICAL TEMPERATURE REMARKS:**

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 970 HIGH TEMP 1280.

**"VISUAL PORTION OF FINAL" PENETRATIONS**



**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
NO SURVEY DATA FOR RWYS 18/36, 9/27 - 20:1 AND 34:1 OBSTACLES ARE ASSUMED.  
VEGETATION HEIGHT 50 FEET PER FPT.  
85 FOOT POWERLINES PER AFLD MANAGER  
BACK-UP ALTIMETER SOURCE MAINTAINED PER WESTERN FPT.  
ORDER 8260.3 CHAPTER 2 APPLIED TO 1333 TREE 471348.00N/1191430.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

**PART D: AIRSPACE**

**DOCKET #**

**ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE**

<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1000FT POINT</b>	<b>3.76</b>
<b>WIDTH OF</b>	<b>FINAL</b>	<b>SEGMENT AT 1000FT POINT</b>	<b>1.20</b>
<b>TRUE COURSE OF</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>234.27</b>
<b>HIGH TERRAIN IN</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>1400</b>
<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1500FT POINT</b>	<b>8.40</b>
<b>WIDTH OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT AT 1500FT POINT</b>	<b>2.00</b>
<b>TRUE COURSE OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>234.36</b>
<b>HIGH TERRAIN IN</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>1600</b>

**THRESHOLD COORDINATES (IF STR-IN)** 471245.98N/1191801.10W  
**ARP COORDINATES** 471230.90N/1191908.90W  
**RUNWAY APCH END AND DIST FURTHEST FROM ARP** RUNWAY 32R DISTANCE 1.15 NM  
**FAF COORDINATES** 471541.69N/1191202.90W  
**FIX NAME COORDINATES**

**REMARKS**

**PART E: PREPARED BY**

**NAME**  
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**OFFICE**  
AJV-A432

**DATE**  
08/18/2025

**TITLE**  
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