

**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> KLWS	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 12	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> LEWISTON	<u>STATE</u> ID		
<u>AIRPORT ELEVATION</u> 1442	<u>TDZE</u> 1417	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 12	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/30/2011	<u>MAG VAR</u> 15E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<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>
MQG VOR/DME	IAF	FOWBO		TF	FB	1.00	318.75	13.25	5000
FOWBO		WANEY		RF	FB	1.00	(5.30 NM RADIUS CCW (CFFWX))	5.07	5000
OFINO	IAF	WANEY		TF	FB	1.00	264.57	39.45	5300
WANEY		TIZHO		RF	FB	1.00	(4.70 NM RADIUS CCW (CFTWT))	5.23	5000
TIZHO		HILUR		RF	FB	1.00	(4.00 NM RADIUS CCW (CFTTH))	3.49	5000
PUW VOR/DME	IAF	HILUR		TF	FB	1.00	167.12	8.09	5000
HILUR	IF	JENAS		TF	FB	0.50	150.02	2.66	4400
JENAS		NILDE		RF	FB	0.50	(4.40 NM RADIUS CCW (CFLJN))	3.34	3900
BIDDY	IAF	FOJJO		TF	FB	0.50	112.70	6.46	4300
FOJJO	IF	HOBOP		TF	FB	0.50	106.44	3.33	4300
HOBOP		NILDE		TF	FB	0.50	106.49	2.67	3900
NILDE	PFAF	* ONLAW		TF	FB	0.30	106.53	3.66	
ONLAW		* IYTAM		RF	FB	0.30	(7.00 NM RADIUS CW (CFNQJ))	1.22	
IYTAM		* RW12	MAP	TF	FO	0.30	116.59	2.50	
RW12	MAP	VOSKY		TF	FB	1.00	116.62	4.45	
VOSKY		EVHOG		RF	FB	1.00	(5.50 NM RADIUS CCW (CFTVF))	6.41	
EVHOG		OFINO		TF	FO	1.00	049.82	29.03	6000

QUALITY
24
CHECKED

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 ON TRACK 116.62 TO VOSKY THEN LEFT TURN 6000 TO EVHOG AND ON TRACK 049.82 TO OFINO AND HOLD.

*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 260 FEET PER NM TO 3400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT NILDE					
3. FAC:	*	FAF: NILDE	DIST FAF TO MAP:		DIST FAF TO THLD:
4. MIN ALT:	NILDE 3900, ONLAW 2659, IYTAM 2254				
5. DIST TO THLD FROM OM:	7.37	MM:	IM:	150 HAT:	268 HAT: 0.77
6. MIN GP INCPT: 3900		GP ALT AT FAF : 3900		OM:	GS ANT:
7. GP ANGLE:	3.10	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 56.0	MM: IM:
8. MSA FROM:	RW12 7700				

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12°C OR ABOVE 54°C.

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE AT MQG, OFINO, PUW, AND BIDDY: (RNP 0.50).

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MQG VOR/DME AIRWAY RADIALS 200 CW 247.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OFINO ON T276 NORTHEAST BOUND.

CHART SPEED ICON IN PLANVIEW AT FOWBO: MAX 210 KIAS.

CHART SPEED ICON IN PLANVIEW AT WANAY: MAX 210 KIAS.

CHART SPEED ICON IN PLANVIEW AT HILUR: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SW, LT, 058.65 INBOUND.



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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 0.30 DA*	1685	7/8	268	1685	7/8	268	1685	7/8	268	1685	7/8	268			
RNP 0.30 DA	1889	1 3/8	472	1889	1 3/8	472	1889	1 3/8	472	1889	1 3/8	472			

CHANGES - REASONS

1. INCORPORATED P-NOTAM ORIG-A IN AMENDMENT ORIG-B.
2. TOUCHDOWN ZONE ELEVATION CHANGED FROM 1415 TO 1417 - KLWS AIRNAV UPDATED 9/10/2020.
3. REMOVED PROCEDURE NA AT NIGHT NOTE - NO 20:1 PENETRATIONS EXIST IN EVALUATION.
4. CHANGED UNCOMPENSATED BARO-VNAV NOTE FROM "PROCEDURE NA BELOW -16C (3F) OR ABOVE 36C (98F)" TO "PROCEDURE NA BELOW -12°C OR ABOVE 54°C" - UPDATED 5 YR ACT/IAW 8260.19I 8-6-9R.
5. CHANGED 268 HAT DIST FROM 0.78 TO 0.77 ON PROFILE LINE 5 - TARGETS EVALUATION RESULTS.
6. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - IAW 8260.19I 8-6-7G(3)(A).
7. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - GPS - IAW 8260.19I, 8-6-8B(1) AND MEMO ATTACHMENT 5(3).
8. ADDED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19I 8-6-9M(1).
9. INCREASED RNP 0.3 DA*/HAT ALL CATS FROM 1683/268 TO 1685/268, RNP 0.3 DA/HAT ALL CATS FROM 1887/472 TO 1889/472 - TDZE INCREASED 2 FEET/CANCELS FDC NOTAM 0/4549.
10. RNP 0.3 DA* ALL CATS VISIBILITY CHANGED FROM 1 SM TO 7/8 SM, RNP 0.3 DA ALL CATS VISIBILITY CHANGED FROM 1 3/4 SM TO 1 3/8 SM - UPDATED VISCHECK IAW 8260.3D TABLE 3-3-1.
11. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 6000 VIA TRACK 117 TO VOSKY AND VIA LEFT TURN TO EVHOG AND VIA TRACK 050 TO OFINO AND HOLD" TO "CLIMB TO 6000 ON TRACK 116.62 TO VOSKY THEN LEFT TURN TO EVHOG AND ON TRACK 049.82 TO OFINO AND HOLD" - IAW 8260.19I 8-6-6D(11).
12. ADDED PROCEDURE NA PLANVIEW NOTES AT OFINO AND MQG VDME - IAW 8260.19I 8-2-5E(2).
13. REMOVED ADDITIONAL FLIGHT DATA CHART OBSTACLES 1390 TREE 462259N/1170133W AND 1393 TREE 462301N/1170134W - NEW OBSTACLE EVALUATION, MULTIPLE 34:1 PENETRATIONS LISTED IN VISUAL PORTION OF FINAL ON -9.
14. CHANGED RF CENTER CNF FIX NAMES FROM/TO; CUGEM/CFFWX, RENLE/CFTWT, HEPEL/CFTTH, KEDGY/CFLJN, SAWJE/CFNQJ, CODUT/CFTVF - IAW 8260.19I 2-10-4A(4).

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: AMGR, ZSE**FLIGHT CHECKED BY**

SCOTT A THOMPSON

Digitally signed by

DONALD H LANIER

Jul 09, 2021

OFFICE

FICO

DATE

07/07/2021

DEVELOPED BY

DONALD H. LANIER (RICHARD CHRISTENSEN)

Digitally signed by

DONALD H LANIER

Jul 09, 2021

OFFICE

AJV-A431

DATE

12/17/2020

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Jul 09, 2021

OFFICE

AJV-A430

DATETITLE
MANAGERQUALITY
24
CHECKED