

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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> CLM	<u>PROCEDURE NAME</u> ILS OR LOC RWY 9	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> PORT ANGELES	<u>STATE</u> WA
<u>AIRPORT ELEVATION</u> 291	<u>TDZE</u> 285	<u>SUPERSEDED</u> ILS OR LOC RWY 9	<u>ORIGINAL/AMENDMENT</u> 3B	<u>DATED</u> 01/25/2024
<u>FACILITY</u> I-CLM	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 16E
				<u>EPOCH YEAR</u> 2020
				<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>
JIGEB		YUCSU/I-CLM 17.51 DME		TF	FO	1.00	250.19	35.47	4700
WATTR		YUCSU/I-CLM 17.51 DME		TF	FO	1.00	258.77	38.92	4700
TOU VORTAC	IAF	YUCSU/TOU 29.63 DME	NOPT				080.71 (TOU)	29.63	4700
YUCSU/I-CLM 17.51 DME	IF/IAF	HUTUK/I-CLM 13.14 DME					088.57 (I-CLM)	4.37	3800
HUTUK/I-CLM 13.14 DME		OCUVI/I-CLM 11.03 DME					088.57 (I-CLM)	2.11	3200
OCUVI/I-CLM 11.03 DME		SESCO/I-CLM 7.26 DME					088.57 (I-CLM)	3.77	2300

MISSED APPROACH

MAP:

ILS: DA
LOC: 6.16 NM AFTER SESCO/I-CLM 7.26 DME OR AT I-CLM 1.10 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 5400 ON HEADING 030 AND CVV VOR/DME R-247 TO JIGEB/CVV 12.10 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD W YUCSU/I-CLM 17.51 DME, LT, 088.57 INBOUND, 4700 FT. IN LIEU OF PT (IAF), MAX 10000.
- FAC: 088.57 FAF: SESCO/I-CLM 7.26 DME DIST FAF TO MAP: 6.16 DIST FAF TO THLD: 6.16
- MIN ALT: YUCSU/I-CLM 17.51 DME 4700, HUTUK/I-CLM 13.14 DME 3800, OCUVI/I-CLM 11.03 DME 3200, SESCO/I-CLM 7.26 DME 2300, RESSY/I-CLM 3.99 DME 1260
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 1024
- MIN GS INCPT: 2300 GS ALT AT PFAF: SESCO/I-CLM 7.26 DME 2300 OM: MM: IM:
- GS ANGLE: 3.00 34:1 20:1 TCH: 54.2
- MSA FROM: ARP KCLM 9200



PBN REQUIREMENTS NOTE:
RNAV 1 - GPS. FROM JIGEB OR WATTR.

EQUIPMENT REQUIREMENTS NOTES:
DME REQUIRED.

NOTES:
CHART NOTE: CIRCLING NA S OF RWY 9-27.
CHART NOTE: CIRCLING RWY 13, 31 NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JIGEB ON T487 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WATTR ON T268 EASTBOUND AND T487 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TOU VORTAC ON V4 WESTBOUND AND T268 SOUTHWEST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS-9 VISIBILITY TO 7/8 SM.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 067.42 INBOUND.
CHART FAS OBST: 421 TREE (53-058619) 480716N/1233149W.
CHART 624 TERRAIN (53-066693) 480742N/1233545W.
CHART CYR 109 AND CYA 102.
CHART VDP AT 2.29 DME.
DISTANCE VDP TO THLD 1.19 NM.
CHART CIRCLING ICON.

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT D 800-2 1/4, 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
S-ILS 09	495	1/2	210	495	1/2	210	495	1/2	210	495	1/2	210			
S-LOC 09	720	1/2	435	720	1/2	435	720	3/4	435	720	3/4	435			
CIRCLING	800	1	509	800	1	509	800	1 1/2	509	1000	2 1/4	709			

CHANGES - REASONS

1. TERMINAL ROUTES: DELETED 3 FEEDER SEGMENTS CVV VOR/DME TO ELWHA LOM, JIGEB TO ELWHA LOM, AND ELWHA LOM TO YUCSU - DECOMMISSION OF ELWHA LOM AND PROCEDURE REDESIGN, PER FPT.
2. TERMINAL ROUTES: ADDED 2 NEW RNAV FEEDER SEGMENTS JIGEB TO YUCSU AND WATTR TO YUCSU - PROCEDURE REDESIGN WITH PBN TRANSITIONS, PER FPT.
3. TERMINAL ROUTES: INITIAL SEGMENT FROM TOU VORTAC TO YUCSU, SPECIFIED COURSE GUIDANCE FROM TOU - TO CLARIFY COURSE GUIDANCE USED.
4. TERMINAL ROUTES: INTERMEDIATE SEGMENT FROM YUCSU TO HUTUK, CHANGED BOTH FIX MAKE-UPS FROM TOU DME TO I-CLM DME, AND INCREASED MINIMUM ALTITUDE FROM 3600 TO 3800 - ADDITION OF NEW I-CLM DME, AND NEW OBSTACLE AND PRECIPITOUS TERRAIN EVALUATION.
5. TERMINAL ROUTES: INTERMEDIATE SEGMENT FROM HUTUK TO OCUVI, CHANGED BOTH FIX MAKE-UPS FROM TOU DME TO I-CLM DME, DELETED PFAF FROM FIX TYPE, AND LOWERED MINIMUM ALTITUDE FROM 3500 TO 3200 - ADDITION OF NEW I-CLM DME, NEW COMBINED PFAF/FAF SESCO, AND TO MEET DESCENT GRADIENT REQUIREMENTS IN ALL INTERMEDIATE SEGMENTS.
6. TERMINAL ROUTES: INTERMEDIATE SEGMENT FROM OCUVI, CHANGED OCUVI FIX MAKE-UP FROM TOU DME TO I-CLM DME, CHANGED "TO" POINT FROM ELWHA LOM TO SESCO, CHANGED DISTANCE FROM 3.31 TO 3.77 NM, AND LOWERED MINIMUM ALTITUDE FROM 2500 TO 2300 - NEW COMBINED PFAF/FAF SESCO.
7. MISSED APPROACH: CHANGED LOC MAP IDENTIFIER FROM "6.62 NM AFTER ELWHA LOM" TO "6.16 NM AFTER SESCO/7.26 DME OR AT I-CLM 1.10 DME" - NEW FAF SESCO AND ADDITION OF NEW I-CLM DME.
8. DELETED ALTERNATE MISSED APPROACH - LOSS OF COURSE GUIDANCE FROM DECOMMISSION OF ELWHA LOM, AND LACK OF OTHER SUITABLE FACILITIES.
9. PROFILE LINE 2: ADDED YUCSU FIX MAKE-UP I-CLM 17.51 DME - NEW FIX MAKE-UP WITH NEW I-CLM DME.
10. PROFILE LINE 3: CHANGED FAF FROM ELWHA LOM TO SESCO, DELETED PFAF OCUVI, CHANGED DIST FAF TO MAP FROM 6.62 TO 6.16, AND CHANGED DIST FAF TO THLD FROM 6.62 TO 6.16 - NEW COMBINED FAF/PFAF SESCO.
11. PROFILE LINE 4: INCREASED MINIMUM ALTITUDE AT HUTUK FROM 3600 TO 3800, DECREASED MINIMUM ALTITUDE AT OCUVI FROM 3500 TO 3200, DELETED ELWHA LOM, ADDED NEW FAF SESCO, AND ADDED NEW FINAL SDF RESSY - NEW OBSTACLE EVALUATION, REPLACED FAF ELWHA LOM WITH SESCO, AND ADDED NEW FINAL STEPDOWN FIX RESSY.
12. PROFILE LINE 5: DELETED DIST TO THLD FROM OM 6.62 - DECOMMISSION OF ELWHA LOM.
13. PROFILE LINE 6: CHANGED MIN GS INCPT FROM 3500 TO 2300, CHANGED GS ALT AT PFAF FROM "OCUVI 3500" TO "SESCO 2300", AND DELETED GS ALT AT OM 2483 - DECOMMISSION OF ELWHA LOM AND NEW PFAF SESCO.
14. PROFILE LINE 8: CHANGED MSA FROM "ELWHA LOM 075-240 9000, 240-345 4900, 345-075 3800" TO "ARP KCLM 9200" - DECOMMISSION OF ELWHA LOM AND LACK OF OTHER SUITABLE FACILITIES.
15. PBN REQUIREMENTS NOTE: ADDED "RNAV 1 - GPS. FROM JIGEB OR WATTR" - ADDITION OF PBN TRANSITIONS WITH RNAV FEEDERS FROM JIGEB AND WATTR.
16. EQUIPMENT REQUIREMENTS NOTES: DELETED "ADF REQUIRED FOR LOC ONLY" AND "ADF REQUIRED FOR PROCEDURE ENTRY AT JIGEB AND CVV VOR/DME" - DECOMMISSION OF ELWHA LOM AND DELETION OF CONVENTIONAL FEEDER SEGMENTS.
17. NOTES: ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JIGEB ON T487 SOUTHEAST BOUND" - LIMIT TURN TO 90 DEGREES AT JIGEB FROM NEW AIRWAY T487.
18. NOTES: ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WATTR ON T268 EASTBOUND AND T487 SOUTHEAST BOUND" - LIMIT TURN TO 90 DEGREES AT WATTR FROM T268 AND NEW AIRWAY T487.
19. NOTES: CHANGED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TOU VORTAC ON V4 WESTBOUND" TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TOU VORTAC ON V4 WESTBOUND AND T268 SOUTHWEST BOUND" - LIMIT TURN TO 120 DEGREES AT TOU VORTAC FROM T268, AS WELL AS V4.
20. NOTES: DELETED "CHART NOTE: DME FROM TOU VORTAC. SIMULTANEOUS RECEPTION OF I-CLM AND TOU DME REQUIRED" - NO LONGER REQUIRED WITH ADDITION OF NEW I-CLM DME.
21. NOTES: CHANGED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC-9 CAT C/D VISIBILITY TO 1 3/4 SM" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS-9 VISIBILITY TO 7/8 SM" - LOWER LOC MDA AND NEW VISIBILITY EVALUATION.
22. ADDITIONAL FLIGHT DATA: DELETED "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW WATTR INT/49.38 DME, RT, 130.08 INBOUND" AND "CHART IN PLANVIEW: WATTR INT/49.38 DME" - DELETION OF ALTERNATE MISSED APPROACH PROCEDURE.
23. ADDITIONAL FLIGHT DATA: REPLACED "FAS OBST: 600 AAO 480743N/1233548W" WITH "CHART FAS OBST: 421 TREE (53-058619) 480716N/1233149W" - NEW LOC FINAL CONTROLLING OBSTACLE.
24. ADDITIONAL FLIGHT DATA: DELETED "1250 AAO 480900N/1234012W" - AAO 7:1 OBSTACLES NO LONGER DOCUMENTED IN ADDITIONAL FLIGHT DATA OR CHARTED.
25. ADDITIONAL FLIGHT DATA: ADDED "CHART 624 TERRAIN (53-066693) 480742N/1233545W" - NEW 7:1 OBSTACLE ON FINAL STEPDOWN SEGMENT AT RESSI.
26. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 2.29 DME" AND "DISTANCE VDP TO THLD 1.19 NM" - ADDITION OF NEW I-CLM DME ALLOWS CHARTING OF VDP.
27. ADDED ALTERNATE MINIMUMS - FINAL FACILITY I-CLM ILS NOW HAS 24-HOUR REMOTE MONITORING (CAT I).
28. MINIMUMS: LOWERED S-ILS 9 DA/HAT FROM 496/211 TO 495/210 - NEW OBSTACLE EVAL AND PER FPT REQUEST.
29. MINIMUMS: LOWERED S-LOC 9 MDA/HAT FROM 900/615 TO 720/435 - ADDITION OF FINAL STEPDOWN FIX AND NEW OBSTACLE EVAL.
30. MINIMUMS: LOWERED S-LOC 9 VISIBILITY CAT C/D FROM 1 3/8 TO 3/4 SM - LOWER LOC MDA AND NEW VISIBILITY EVAL.
31. MINIMUMS: LOWERED CIRCLING MDA/HAA CAT A/B/C FROM 900/609 TO 800/509 - LOWER LOC MDA.
32. MINIMUMS: LOWERED CIRCLING VISIBILITY CAT C FROM 1 3/4 TO 1 1/2 - LOWER CAT C MDA/HAA AND NEW VISIBILITY EVALUATION.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZSE, SEA FSS, NUW APP CON, AMGR

FLIGHT CHECKED BY

THOMAS E MOLOKIE

Digitally signed by

RAKE MCGRAW

Feb 24, 2025

OFFICE

AJF

DATE

01/14/2025

DEVELOPED BY

RICHARD BRUCE

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RICHARD A BRUCE

Dec 04, 2024

OFFICE

AJV-A422

DATE

12/04/2024

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RAKE MCGRAW

Feb 24, 2025

OFFICE

AJV-A420

DATE

TITLE

MANAGER



**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>
CLM	ILS OR LOC RWY 9	4	PORT ANGELES	WA	291	I-CLM

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM JIGEB **TO** YUCSU/I-CLM 17.51 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	35.47				

<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	480921.00N/1235424.00W	771	215	8	4B	2000				AT1929	4700
TERRAIN	480924.00N/1235357.00W	442 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM WATTR **TO** YUCSU/I-CLM 17.51 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	38.92				

<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>
TERRAIN (53-066692)	480925.19N/1234105.08W	1366	20	3	1A	2000				AT1334	4700
TERRAIN	480927.00N/1234106.00W	1128 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM

TOU VORTAC

TO

YUCSU/TOU 29.63 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
	29.63										
<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	480533.00N/1235636.00W	3517	215	8	4B	1000				SA-994 PR190 AT987	4700
TERRAIN	481348.00N/1243157.00W	1978 (2000)								AS1500	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

YUCSU/I-CLM 17.51 DME (IF/IAF)

TO

HUTUK/I-CLM 13.14 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	4.37										
<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	480533.00N/1235636.00W	3517	215	8	4B	500				SA-495 PR250	3800
TERRAIN	480721.00N/1235503.00W	1079 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

HUTUK/I-CLM 13.14 DME

TO

OCUVI/I-CLM 11.03 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
	2.11										
<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	480657.00N/1234806.00W	2057	215	8	4B	500				SA-320 PR200 AT763	3200
TERRAIN	480742.00N/1234830.00W	597 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

OCUVI/I-CLM 11.03 DME

TO

SESCO/I-CLM 7.26 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
	3.77										
<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	480651.00N/1234609.00W	2080	215	8	4B	500				SA-497 PR130	2300
TERRAIN	480927.00N/1234106.00W	1128 (1100)								AS1000	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: ILS

FROM

SESCO/I-CLM 7.26 DME

TO

RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	6.16		DA				210				
<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>
							ASC			MA10	495

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC

FROM

SESCO/I-CLM 7.26 DME

TO

RESSY/I-CLM 3.99 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
	3.27										
<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>
TERRAIN (53-066693)	480742.00N/1233545.00W	624	50	20	2C	250				RA100 XL9 DG277	1260

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LOC STEPDOWN

FROM

RESSY/I-CLM 3.99 DME

TO

6.16 NM AFTER SESCO/I-CLM 7.26 DME OR AT I-CLM 1.10 DME

RNP

DISTANCE

PAT

MAP

HAT

HMAS

2.89

6.16 NM AFTER SESCO/I-CLM 7.26 DME OR AT I-CLM 1.10 DME

435

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (53-058619)	480715.56N/1233149.22W	421	20	3	1A	250				SA-2 MA40	720

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

YUCSU/I-CLM 17.51 DME

TO

P-6

RNP

DISTANCE

PAT

MAP

HAT

HMAS

P-6

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	480515.00N/1235533.00W	3846	215	8	4B	1000				SA-991 PR240 AT605	4700
TERRAIN	480909.00N/1235848.00W	1190 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: ILS

FROM

DA

TO

JIGEB/CVV 12.10 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 323			
<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 (53-062473)	480706.09N/1233031.01W	409	20	3	1A		ASC				5400
TREE	480524.00N/1232618.00W	700	215	8	4B	1000					1700
TERRAIN	480524.00N/1232618.00W	574 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LOC

FROM

6.16 NM AFTER SESCO/I-CLM 7.26 DME OR AT I-CLM 1.10 DME

TO

JIGEB/CVV 12.10 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 470			
<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 (53-058893)	480608.12N/1232837.58W	653	20	3	1A		ASC				5400
TREE	480524.00N/1232618.00W	700	215	8	4B	1000					1700
TERRAIN	480524.00N/1232618.00W	574 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
CLM

PROCEDURE NAME
ILS OR LOC RWY 9

AMDT NO.
4

CITY
PORT ANGELES

STATE
WA

AIRPORT ELEVATION
291

FACILITY
I-CLM

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											
TREE (53-056427)	480642.29N/1232811.17W	1.30	509	498	20	3	1A	300			800
CATEGORY B											
TREE (53-056427)	480642.29N/1232811.17W	1.82	509	498	20	3	1A	300			800
CATEGORY C											
TREE (53-056427)	480642.29N/1232811.17W	2.85	509	498	20	3	1A	300			800
CATEGORY D											
AAO	480733.00N/1233557.00W	3.72	709	673	215	8	4B	300		XP27	1000

CIRCLING REMARKS:

CAT D, XP 27: TO MAINTAIN CURRENT MDA.

MSA

CENTER
ARP KCLM

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	474806.00N/1234239.00W	188	20.9	8179	215	8	4B	1000			9200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

NUW APP CON, ZSE ARTCC, SEA FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	CLM	24	CLM	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	FHR	24	FHR	30.73	Y	96

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
CLM 291, FHR 113
RA = 95.7

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
I-CLM	POCC	24	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW13	BSC-G	
RW31	BSC-G	
RW27 - REIL, MIRL (PCL), PAPI-4L	NPI-G	
RW09 - MALSR (PCL), MIRL (PCL), PAPI-4L	PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	283.9	54.2	278.2	1024	3.00	54.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 13:
20:1	
323 TREE (53-028444) 480742.29N/1233019.05W (73.89)	309 TREE (53-029341) 480739.05N/1233023.18W (66.22)
309 TREE (53-029274) 480744.01N/1233021.68W (47.75)	289 TREE (53-029339) 480739.81N/1233021.17W (46.63)
298 TREE (53-029201) 480741.70N/1233022.73W (44.71)	287 TREE (53-029006) 480740.73N/1233019.83W (43.14)

<u>AIRPORT ID</u> CLM		<u>PROCEDURE NAME</u> ILS OR LOC RWY 9	<u>AMDT NO.</u> 4	<u>CITY</u> PORT ANGELES	<u>STATE</u> WA	<u>AIRPORT ELEVATION</u> 291	<u>FACILITY</u> I-CLM
312 TREE (53-029147) 480745.16N/1233023.84W (41.9)				298 TREE (53-029271) 480742.59N/1233024.42W (37.83)			
299 TREE (53-029148) 480744.39N/1233026.15W (27.99)				263 TREE (53-029291) 480738.38N/1233020.64W (27.71)			
289 TREE (53-029543) 480743.21N/1233026.91W (21.65)				299 TREE (53-028825) 480745.60N/1233029.84W (16.1)			
295 TREE (53-028817) 480744.50N/1233031.25W (14.23)				284 TREE (53-029329) 480746.49N/1233022.87W (9.98)			
282 TREE (53-029327) 480744.22N/1233028.79W (6.91)							
FINAL TYPE	CIRCLING RWY 31:						
20:1							
487 TREE (53-028266) 480635.06N/1232929.54W (42.78)				512 TREE (53-028209) 480629.81N/1232926.77W (40.29)			
407 TREE (53-028280) 480647.19N/1232938.44W (30.85)				480 TREE (53-029430) 480633.47N/1232928.86W (27.74)			
449 TREE (53-028820) 480642.75N/1232922.47W (24.8)				524 TREE (53-062681) 480629.42N/1232912.55W (24.74)			
462 TREE (53-029066) 480640.34N/1232920.31W (23.56)				569 TREE (53-062460) 480622.64N/1232902.70W (22.82)			
554 TREE (53-056503) 480623.65N/1232908.54W (22.77)				563 TREE (53-062678) 480622.08N/1232906.26W (20.91)			
461 TREE (53-028234) 480635.35N/1232931.07W (20.81)				403 TREE (53-029319) 480645.84N/1232938.20W (20.64)			
482 TREE (53-028867) 480633.92N/1232922.44W (19.98)				426 TREE (53-028495) 480644.76N/1232926.63W (17.96)			
478 TREE (53-028869) 480631.63N/1232928.39W (17.02)				539 TREE (53-056052) 480624.83N/1232910.73W (16.8)			
515 TREE (53-028408) 480631.11N/1232909.04W (16.58)				557 TREE (53-059097) 480623.41N/1232904.05W (16.57)			
497 TREE (53-028216) 480627.93N/1232926.06W (15.96)				460 TREE (53-029522) 480641.24N/1232915.08W (15.89)			
452 TREE (53-029234) 480636.65N/1232929.80W (15.05)				445 TREE (53-029561) 480641.67N/1232921.45W (14.32)			
567 TREE (53-062393) 480621.91N/1232900.78W (14.21)				560 TREE (53-057409) 480620.90N/1232906.77W (13.79)			
477 TREE (53-028910) 480630.85N/1232928.94W (13.69)				518 TREE (53-028546) 480628.25N/1232912.48W (13.61)			
469 TREE (53-062602) 480637.68N/1232916.99W (13.14)				472 TREE (53-029112) 480633.60N/1232924.91W (13.11)			
562 TREE (53-058606) 480621.49N/1232903.50W (12.36)				442 TREE (53-028689) 480640.47N/1232924.71W (12.13)			
462 TREE (53-029427) 480639.46N/1232915.78W (11.55)				563 TREE (53-058867) 480619.79N/1232906.08W (10.78)			
464 TREE (53-029188) 480634.88N/1232924.42W (9.69)				428 TREE (53-061938) 480641.68N/1232928.11W (9.49)			
460 TREE (53-029394) 480634.75N/1232926.78W (9.43)				461 TREE (53-029424) 480635.78N/1232923.35W (8.59)			
561 TREE (53-056520) 480620.66N/1232903.70W (8.17)				461 TREE (53-029190) 480638.35N/1232916.84W (7.74)			
446 TREE (53-029024) 480638.12N/1232925.29W (7.13)				709 TREE (53-056859) 480550.48N/1232852.62W (6.94)			
430 TREE (53-028816) 480642.32N/1232923.78W (6.34)				664 TREE (53-061850) 480606.63N/1232838.36W (5.06)			
502 TREE (53-028568) 480626.99N/1232918.91W (3.92)				544 TREE (53-059093) 480621.00N/1232909.62W (3.4)			
425 TREE (53-028583) 480640.85N/1232928.21W (3.12)				440 TREE (53-029232) 480637.63N/1232927.40W (2.88)			
433 TREE (53-029549) 480638.06N/1232930.08W (2.59)				633 TREE (53-062335) 480608.29N/1232849.78W (1.94)			
277 LIGHTING (53-028017) 480704.91N/1232951.39W (0.19)							
<u>PENETRATIONS REMARKS:</u>							

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.

FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FHR ALTIMETER SETTING: INCREASE S-ILS 9 DA TO 591 FEET; INCREASE ALL MDAS 100 FEET AND S-LOC 9 VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CATS C AND D 1/4 SM. VDP NA WHEN USING FHR ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1273 AAO 480903.00N/1234012.00W.

53-066693 (624 TERRAIN 480742.00N/1233545.00W) IS BOTH:

- CONTROLLING OBSTACLE FOR FINAL SEGMENT SESCO TO RESSY.
- 7:1 OBSTACLE FOR FINAL STEPDOWN SEGMENT RESSY TO RW09.

VEGETATION HEIGHT: 125 FT, PER FPT.

OBSTACLES 53-029439 (284 NAVAID, 1A) AND 53-062610 (284 NAVAID, 1A) PENETRATED THE ILS FINAL OCS AND RWY 9 20:1 VISUAL SURFACE.

- BOTH ARE EQUIPMENT ASSOCIATED WITH THE 1ST LIGHT BAR OF THE MALSR APPROACH LIGHT SYSTEM.
- EXEMPTED FROM ILS FINAL APPROACH EVALUATION - 8260.3F, TABLE 10-6-1.
- EXEMPTED FROM 20:1 VISUAL SURFACE EVALUATION - 8260.3F, PARA. 3-3-2.C.(5).

WAIVER: TO CAPTURE FIX WITH PBN TRANSITION TO ILS - 8260.58C APPENDIX C, PARA. 2.A.(1).

ORDER 8260.3 CHAPTER 2 APPLIED TO 624 TERRAIN (53-066693) 480742.00N/1233545.00W.

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

DISTANCE FROM	THLD	TO 1000FT POINT	4.59
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.21
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	104.57
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	800
DISTANCE FROM	FAF	TO 1500FT POINT	6.05
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	3.48
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	104.57
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1100

THRESHOLD COORDINATES (IF STR-IN)	480715.73N/1233041.45W
ARP COORDINATES	480712.70N/1232958.90W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 27 DISTANCE 0.58 NM
FAF COORDINATES	480848.33N/1233935.67W
FIX NAME COORDINATES	IF/IAF YUCSU 481120.81N/1235425.64W

REMARKS



<u>AIRPORT ID</u> CLM	<u>PROCEDURE NAME</u> ILS OR LOC RWY 9	<u>AMDT NO.</u> 4	<u>CITY</u> PORT ANGELES	<u>STATE</u> WA	<u>AIRPORT ELEVATION</u> 291	<u>FACILITY</u> I-CLM
PART E: PREPARED BY						
<u>NAME</u> RICHARD BRUCE			<u>OFFICE</u> AJV-A422	<u>DATE</u> 12/04/2024	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST	