

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
KLSHN						TWO	KLSHN2.KLSHN	ONE	06/15/2023	
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV					
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

DP ROUTE DESCRIPTION:

TAKEOFF RWY 16: CLIMB ON HEADING 163.84 TO 671, THEN RIGHT TURN DIRECT KIENO, THEN ON TRACK 177.08 TO CROSS DNHRT AT OR ABOVE 3000, THENCE ...
TAKEOFF RWY 34: CLIMB ON HEADING 343.84 TO 671, THEN LEFT TURN DIRECT KIENO, THEN ON TRACK 177.08 TO CROSS DNHRT AT OR ABOVE 3000, THENCE ...

...ON TRACK 177.06 TO KLSHN. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE WITHIN 5 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 16: STANDARD WITH MINIMUM CLIMB OF 250 FT/NM TO 2300.
RWY 34: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 2500.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

RWY 16: 1749 FT MSL AAO 483933.00N/1223800.00W (CLIMB GRADIENT, CLIMB-TO-ALTITUDE).
RWY 34: 1886 FT MSL AAO 484012.00N/1223827.00W (CLIMB GRADIENT, CLIMB-TO-ALTITUDE).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 16, RWY 36: 10961 FT MSL AAO 484636.00N/1214918.00W.

MSA:

MSA FROM KBLI 12000

LOST COMMUNICATIONS PROCEDURES:

IF NO TRANSMISSIONS ARE RECEIVED FOR 2 MINUTES AFTER DEPARTURE, PROCEED DIRECT DNHRT, THEN ON LAST ROUTING CLEARED.

ADDITIONAL FLIGHT DATA:

CHART: TOP ALTITUDE: ASSIGNED BY ATC.
DME/DME ASSESSMENT: SAT (RNP 2.0)
AIRPORT MV: BLI 16E/2020
CHART: MINIMUM CROSSING ALTITUDE AT DNHRT: 3000.



AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
KBLI	BELLINHAM	WA

COMMUNICATIONS:

CHART: ATIS, GND CON, TWR

FIXES AND/OR NAVAIDS:

BUHNR

REMARKS:

HISTORICAL WINDS APPLIED AT DNHRT.
HISTORICAL TAILWIND (2018-2022 - 99TH PERCENTILE)
VEGETATION WITHIN 20,000 FT: 40 FT PER FPT.
SHIP HEIGHT OF 200 FT APPLIED AT SPECIFIC LOCATIONS PER FPT.
-CARGO SHIP: 199 FT MSL 484514.30N/122323156W,
-ALASKA FERRY: 181 FT MSL 484325.12N/1223214.77W
NAV CANADA PROVIDES DEPARTURE SERVICES/VECTORIZING FOR THIS PROCEDURE.

FLIGHT INSPECTED BY

THOMAS E MOLOKIE

SIGNATURE

Digitally signed by

DAVID DANNER

OFFICE

AJF

DATE

01/14/2025

DEVELOPED BY

LEO PALMER

Jan 29, 2025

SIGNATURE

Digitally signed by

LEO PALMER

OFFICE

AJV-A421

DATE

06/10/2024

APPROVED BY

DAVE DANNER

Aug 12, 2024

SIGNATURE

Digitally signed by

DAVID DANNER

OFFICE

AJV-A421

DATE

12/26/2024

TITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

Jan 29, 2025

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER:ZSE, VICTORIA DEPARTURE CONTROL, KBLI ATCT, AMGR, WFPT.

CHANGES - REASONS:

- DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 34 FROM "CLIMB ON HEADING 343.84 TO 671, THEN ON HEADING 255.00 OR AS ASSIGNED BY ATC, FOR VECTORS TO CROSS DNHRT AT OR ABOVE 3000, THENCE..." TO "CLIMB ON HEADING 343.84 TO 671, THEN LEFT TURN DIRECT KIENO 10.82NM, THEN ON TRACK 177.08 TO CROSS DNHRT AT OR ABOVE 3000, THENCE ..." - DESIGN CHANGE FROM RADAR VECTORS TO VA-Df--ATC REQUEST.
- DELETED PENN COVE (CVV) ENROUTE TRANSITION--ATC REQUEST.
- RWY 34 TAKEOFF MINIMUMS CHANGED FROM: "STANDARD" TO "STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 2500", ADDED CONTROLLING OBS. - NEW DEPARTURE TRACK.
- RWY 16 TAKEOFF MINIMUMS CHANGED FROM: "STANDARD WITH MINIMUM CLIMB OF 245 FEET PER NM TO 2300" TO "STANDARD WITH MINIMUM CLIMB OF 250 FT/NM TO 2300. - DUE TO NEW OBSTACLE EVALUATION.
- UPDATED NEW RWY 16 CONTROLLING OBS.
- ADDED SPECIFIC SHIP HIEGHT LAT/LONGS. - FOR FUTURE DESIGN CONSIDERATION.
- ADDED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 16, RWY 36: 10961 FT MSL AAO 484636.00N/1214918.00W. - IAW 8260146H APP E J.
- UPDATED HISTORICAL WINDS USED FROM "2017-2021, 99TH PERCENTILE" TO "2018-2022 - 99TH PERCENTILE". - UPDATED TARGETS DATA.
- REMOVED REMARKS: "MEAS OF 7000 REQUIRED FOR DME/DME/IRU NAVIGATION" AND "RWY 34 TERMINATION POINT/ALTITUDE FOR RADAR VECTORS FALLS WITHIN AREA PROTECTED BY DVA." - TRANSITIONS USING MEA'S/MOCA'S REMOVED.

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME					NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
KLSHN					TWO	KLSHN2.KLSHN	ONE	06/15/2023	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW16 (AER)	484806.74N/1223215.20W	N	-	-	-	-			
671 MSL	-	-	-	VA	179.84	-	AT/ABOVE 671		CG 250 FT/NM TO 2300.
KIENO	483943.79N/1223445.20W	Y	FB	DF	-	-			RIGHT TURN
DNHRT	483353.48N/1223647.82W	Y	FB	TF	193.08	6.00	AT/ABOVE 3000		
RW34 (AER)	484700.63N/1223214.93W	N	-	-	-	-			
671 MSL	-	-	-	VA	359.84	-	AT/ABOVE 671		CG 220 FT/NM TO 2500.
KIENO	483943.79N/1223445.20W	Y	FB	DF	-	-			LEFT TURN
DNHRT	483353.48N/1223647.82W	Y	FB	TF	193.08	6.00	AT/ABOVE 3000		
DNHRT	483353.48N/1223647.82W	Y	-	IF					
KLSHN	482743.16N/1223856.93W	Y	FB	TF	193.06	6.34			

