

**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
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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
NRVNA	ONE	NRVNA1.NRVNA	NONE		12 OCT 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 14R: CLIMB HEADING 135.20 TO 700, THEN DIRECT NRVNA, THEN ON TRACK 135.25 FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX, MAINTAIN 2000 OR AS ASSIGNED BY ATC. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN THREE MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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PROCEDURAL DATA NOTES:

- NOTE: RNAV 1.
- NOTE: RADAR REQUIRED.
- NOTE: DME/DME/IRU OR GPS REQUIRED.
- NOTE: ALDER DEPARTURES EXPECT DIRECT/VECTORS TO ALDER/V495/J1-189
- NOTE: ALPSE DEPARTURES EXPECT DIRECT/VECTORS TO ALPSE
- NOTE: ARRIE DEPARTURES EXPECT DIRECT/VECTORS TO ARRIE/J523
- NOTE: BANGR DEPARTURES EXPECT DIRECT/VECTORS TO BANGR
- NOTE: BUWZO DEPARTURES EXPECT DIRECT/VECTORS TO BUWZO
- NOTE: ELMAA DEPARTURES EXPECT DIRECT/VECTORS TO ELMAA/J70
- NOTE: HAROB DEPARTURES EXPECT DIRECT/VECTORS TO HAROB/Q5
- NOTE: LOFAL DEPARTURES EXPECT DIRECT/VECTORS TO LOFAL/V4-495
- NOTE: NORMY DEPARTURES EXPECT DIRECT/VECTORS TO NORMY/V120/J12-70-90
- NOTE: OLM DEPARTURES EXPECT DIRECT/VECTORS TO OLM
- NOTE: PAE DEPARTURES EXPECT DIRECT/VECTORS TO PAE
- NOTE: SUMMA DEPARTURES EXPECT DIRECT/VECTORS TO SUMMA/J5/J54/Q9
- NOTE: VAMPS DEPARTURES EXPECT DIRECT/VECTORS TO VAMPS/V2-298
- NOTE: ZADON DEPARTURES EXPECT DIRECT/VECTORS TO ZADON

TAKEOFF MINIMUMS:

RWY 14L, 32L/R: NA-ATC
RWY 14R: STANDARD WITH MINIMUM CLIMB OF 507 FT PER NM TO 700.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 14R, RAILROAD 50 FT FROM DER, 453 FT LEFT OF CENTERLINE, 46 FT MSL. RAILROAD, TREE AND RD BEGINNING 128 FT FROM DER, 277 FT LEFT OF CENTERLINE, UP TO 47 FT MSL. LT POLE 202 FT FROM DER, 539 FT RIGHT OF CENTERLINE, 64 FT MSL. SIGNS, RAILROADS, RDS AND TREES BEGINNING 263 FT FROM DER, 280 FT LEFT OF CENTERLINE, UP TO 98 FT MSL. POLES, OL DME, NAVAID AND TREES BEGINNING 411 FT FROM DER, 283 FT RIGHT OF CENTERLINE, UP TO 66 FT MSL. TREES, RAILROADS AND RD BEGINNING 793 FT FROM DER, 240 FT LEFT OF CENTERLINE, UP TO 61 FT AGL/116 FT MSL. TREES, RDS, RAILROADS, POLES, SIGN, ELEC SYS, TOWERS AND ELEC TRANSMISSION LINES BEGINNING 891 FT FROM DER, 142 FT LEFT OF CENTERLINE, UP TO 113 FT AGL/129 FT MSL. TREES, BLDG AND POLES BEGINNING 1123 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 87 FT MSL. TRMSN TWRS BEGINNING 2880 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/94 FT MSL. TRMSN TWR 3138 FT FROM DER, 1305 FT RIGHT OF CENTERLINE, 100 FT MSL. TREES BEGINNING 3181 FT FROM DER, 344 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/106 FT MSL. POLE 3278 FT FROM DER, 1292 FT RIGHT OF CENTERLINE, 111 FT MSL. ELEC TRANSMISSION LINE 3363 FT FROM DER, 1389 FT RIGHT OF



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CENTERLINE, 121 FT MSL. ELEC TRANSMISSION LINES AND TREES BEGINNING 3373 FT FROM DER, 597 FT RIGHT OF CENTERLINE, UP TO 124 FT MSL. ELEC TRANSMISSION LINE AND TREES BEGINNING 3511 FT FROM DER, 278 FT RIGHT OF CENTERLINE, UP TO 125 FT MSL. TREES BEGINNING 3574 FT FROM DER, 710 FT RIGHT OF CENTERLINE, UP TO 132 FT MSL. TREE 3658 FT FROM DER, 486 FT RIGHT OF CENTERLINE, 139 FT MSL. TREES BEGINNING 3680 FT FROM DER, 724 FT RIGHT OF CENTERLINE, UP TO 146 FT MSL. TREES AND TRMSN TWR BEGINNING 3710 FT FROM DER, 270 FT RIGHT OF CENTERLINE, UP TO 155 FT MSL. TREES AND POLES BEGINNING 3894 FT FROM DER, 773 FT RIGHT OF CENTERLINE, UP TO 183 FT MSL. TREES, ELEC TRANSMISSION LINES, ANTENNA AND TOWERS BEGINNING 4017 FT FROM DER, 16 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/195 FT MSL. TREES BEGINNING 4142 FT FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 137 FT MSL. TREES BEGINNING 4429 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 130 FT AGL/149 FT MSL. TREE 4671 FT FROM DER, 31 FT LEFT OF CENTERLINE, 130 FT AGL/153 FT MSL. TREES BEGINNING 4694 FT FROM DER, 1172 FT LEFT OF CENTERLINE, UP TO 167 FT MSL. TREES BEGINNING 4807 FT FROM DER, 1051 FT LEFT OF CENTERLINE, UP TO 193 FT MSL. TREES BEGINNING 4978 FT FROM DER, 828 FT LEFT OF CENTERLINE, UP TO 202 FT MSL. TREES BEGINNING 5257 FT FROM DER, 825 FT LEFT OF CENTERLINE, UP TO 212 FT MSL. TREES BEGINNING 5405 FT FROM DER, 773 FT LEFT OF CENTERLINE, UP TO 221 FT MSL. TREES BEGINNING 5519 FT FROM DER, 684 FT LEFT OF CENTERLINE, UP TO 229 FT MSL. TREES AND ELEC TRANSMISSION LINE BEGINNING 5636 FT FROM DER, 75 FT LEFT OF CENTERLINE, UP TO 234 FT MSL. TREES, TOWERS AND ELEC TRANSMISSION LINES BEGINNING 5685 FT FROM DER, 168 FT LEFT OF CENTERLINE, UP TO 247 FT MSL. TREES BEGINNING 5697 FT FROM DER, 477 FT RIGHT OF CENTERLINE, UP TO 95 FT AGL/217 FT MSL. ELEC TRANSMISSION LINES, TREES AND TOWERS BEGINNING 5832 FT FROM DER, 421 FT LEFT OF CENTERLINE, UP TO 360 FT MSL. TREES AND TRMSN TWR BEGINNING 1 NM FROM DER, 719 FT LEFT OF CENTERLINE, UP TO 399 FT MSL. TREES, GRD, BLDGS, ELEC TRANSMISSION LINE, TRMSN TWRS, RDS AND FENCE BEGINNING 1.1 NM FROM DER, 970 FT LEFT OF CENTERLINE, UP TO 437 FT MSL. TREES, TRMSN TWRS, RDS, BLDGS, FENCES, GRD, PARKING LOTS, ELEC TRANSMISSION LINE, POLES AND ANTENNA BEGINNING 1.3 NM FROM DER, 948 FT LEFT OF CENTERLINE, UP TO 116 FT AGL/506 FT MSL. TREES BEGINNING 2 NM FROM DER, 2647 FT LEFT OF CENTERLINE, UP TO 523 FT MSL. TREES BEGINNING 2.1 NM FROM DER, 2225 FT LEFT OF CENTERLINE, UP TO 543 FT MSL. TREES BEGINNING 2.3 NM FROM DER, 2603 FT LEFT OF CENTERLINE, UP TO 553 FT MSL.

CONTROLLING OBSTACLES:

RWY 14R: 480 FT MSL TREE 473008.08N/1221610.27W (CLIMB GRADIENT), 502 FT MSL TREE 473003.90N/1221557.93W (CLIMB-TO ALTITUDE).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: TOP ALTITUDE: 2000.
REFERENCE MAGVAR: KBFI 15E EPOCH YR 2020.
DME/DME ASSESSMENT: SAT (RNP 2.0).

<u>AIRPORTS SERVED:</u>	<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
	BOEING FIELD/KING COUNTY INTL	SEATTLE	WA

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, BOEING ATCT, SEATTLE DEP CON

FIXES AND/OR NAVAIDS:

ALDER, ALPSE, ARRIE, BANGR, BUWZO, ELMAA, HAROB, LOFAL, NORMY, OLM VORTAC, PAE VOR/DME, SUMMA, VAMPS, ZADON.



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REMARKS:
RECOMMENDED NAVAID FOR FM LEG, EAT VOR/DME.

FLIGHT INSPECTED BY: *Digitally signed by*
CHARLES D CUNNINGHAM **DONALD H LANIER**
Jul 25, 2017

OFFICE SYMBOL: FICO
DATE: 7/14/17

DEVELOPED BY:
ROBERT GRIM

ROBERT E GRIM II *Digitally signed by ROBERT E GRIM II
Date: 2017.03.14 15:22:23 -05'00'*

OFFICE SYMBOL: AJV-5431
DATE: 03/14/2017

APPROVED BY: *Digitally signed by*
PAT MULQUEEN **DONALD H LANIER**
Jul 25, 2017

OFFICE SYMBOL: AJV-5430
DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:
WFPT, ARPT MGR, SEA ATCT, SEA ARTCC

CHANGES - REASONS:
ORIGINAL PROCEDURE PER FPT AND ATC REQUEST



**FEDERAL AVIATION ADMINISTRATION
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DEPARTURE (DATA RECORD)**

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW14R (AER)	473225.95N/1221840.88W	N	-	-	-	-			CG 507 FT/NM TO 700
700 MSL	-	-	-	VA	150.20	-			
NRVNA	472219.52N/1221010.21W	Y	FB	DF	-	-			
NRVNA	472219.52N/1221010.21W	-	-	FM	150.25	-			RECOMMENDED NAVAID: EAT VOR/DME

