

**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
KENT	EIGHT	KENT8.ZIGED	SEVEN	06/25/2015	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 type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 14L: CLIMB HEADING 137.00 AND I-BFI SE COURSE TO CROSS ZIGED INT/I-BFI 13.00 DME AT 2000 OR ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 3 MINUTES AFTER DEPARTURE.
TAKEOFF RWY 14R: CLIMB HEADING 135.20 AND I-BFI SE COURSE TO CROSS ZIGED INT/I-BFI 13.00 DME AT 2000 OR ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 3 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: RADAR REQUIRED.

TAKEOFF MINIMUMS:

RWY 32L/R, NA-ATC.
RWY 14L, STANDARD WITH MINIMUM CLIMB OF 708 FT PER NM TO 500 OR 600-3 WITH MINIMUM CLIMB OF 260 FT PER NM TO 700.
RWY 14R, STANDARD WITH MINIMUM CLIMB OF 507 FT PER NM TO 700 OR 600-3 WITH MINIMUM CLIMB OF 260 FT PER NM TO 700.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 14L, SIGN 76 FT FROM DER, 135 FT LEFT OF CENTERLINE, 3 FT AGL/20 FT MSL. BLDG 403 FT FROM DER, 411 FT LEFT OF CENTERLINE, 14 FT AGL/32 FT MSL. BLDG 403 FT FROM DER, 491 FT LEFT OF CENTERLINE, 35 FT MSL. BLDG 622 FT FROM DER, 526 FT LEFT OF CENTERLINE, 34 FT AGL/51 FT MSL. BLDGS BEGINNING 647 FT FROM DER, 473 FT LEFT OF CENTERLINE, UP TO 54 FT MSL. TREE 1052 FT FROM DER, 688 FT LEFT OF CENTERLINE, 56 FT MSL. TRMSN TWRS AND BLDGS BEGINNING 1147 FT FROM DER, 426 FT LEFT OF CENTERLINE, UP TO 63 FT MSL. TOWER AND TRMSN TWR BEGINNING 1545 FT FROM DER, 658 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/72 FT MSL. POLES, TOWER AND TREES BEGINNING 1784 FT FROM DER, 714 FT LEFT OF CENTERLINE, UP TO 103 FT MSL. TREE 2591 FT FROM DER, 1156 FT LEFT OF CENTERLINE, 141 FT MSL. TREE 2701 FT FROM DER, 1134 FT LEFT OF CENTERLINE, 143 FT MSL. TREE 2730 FT FROM DER, 1030 FT LEFT OF CENTERLINE, 157 FT MSL. TREES BEGINNING 2820 FT FROM DER, 646 FT LEFT OF CENTERLINE, UP TO 192 FT MSL. TREE 2931 FT FROM DER, 1162 FT LEFT OF CENTERLINE, 201 FT MSL. TREES BEGINNING 2967 FT FROM DER, 619 FT LEFT OF CENTERLINE, UP TO 226 FT MSL. TREES BEGINNING 3060 FT FROM DER, 914 FT LEFT OF CENTERLINE, UP TO 235 FT MSL. TREES BEGINNING 3100 FT FROM DER, 553 FT LEFT OF CENTERLINE, UP TO 266 FT MSL. TREES BEGINNING 3259 FT FROM DER, 906 FT LEFT OF CENTERLINE, UP TO 277 FT MSL. TREES BEGINNING 3332 FT FROM DER, 732 FT LEFT OF CENTERLINE, UP TO 302 FT MSL. TREES, TRMSN TWRS AND BLDGS BEGINNING 3675 FT FROM DER, 384 FT LEFT OF CENTERLINE, UP TO 116 FT AGL/342 FT MSL. TREES, TRMSN TWRS AND BLDGS BEGINNING 4032 FT FROM DER, 296 FT LEFT OF CENTERLINE, UP TO 103 FT AGL/356 FT MSL. TREES, BLDGS, TRMSN TWRS, GRD AND RDS BEGINNING 4538 FT FROM DER, 380 FT LEFT OF CENTERLINE, UP TO 110 FT AGL/365 FT MSL. TRMSN TWR AND TREES BEGINNING 1.6 NM FROM DER, 1787 FT LEFT OF CENTERLINE, UP TO 135 FT AGL/382 FT MSL. TREES, TOWERS, ELEC TRANSMISSION LINES AND BLDGS BEGINNING 1.7 NM FROM DER, 936 FT LEFT OF CENTERLINE, UP TO 438 FT MSL. TREES, TRMSN TWRS, BLDGS, ELEC TRANSMISSION LINE, RDS AND GRD BEGINNING 1.9 NM FROM DER, 888 FT LEFT OF CENTERLINE, UP TO 478 FT MSL. TREES, BLDGS, TOWERS, FENCES, RDS, GRD, PARKING LOTS, ELEC TRANSMISSION LINES AND POLES BEGINNING 2 NM FROM DER, 638 FT LEFT OF CENTERLINE, UP TO 531 FT MSL.

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 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



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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 14L: 342 FT MSL TREE 473120.07N/1221716.76W (CLIMB GRADIENT), 356 FT MSL TREE 473117.99N/1221711.65W (CLIMB-TO ALTITUDE), 530 FT MSL TREE 472945.68N/1221523.02W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 531 FT MSL TREE 473007.81N/1221551.25W (CEILING), 514 FT MSL TREE 472950.72N/1221523.47W (VISIBILITY).

RWY 14R: 480 FT MSL TREE 473008.08N/1221610.27W (CLIMB GRADIENT), 502 FT MSL TREE 473003.90N/1221557.93W (CLIMB-TO ALTITUDE), 515 FT MSL TREE 472911.89N/1221440.30W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 599 FT MSL TREE 472909.99N/1221444.91W (CEILING), 495 FT MSL TREE 472909.99N/1221444.35W (VISIBILITY).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: TOP ALTITUDE: 2000

AIRPORTS SERVED:

<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:

BTG VORTAC, EAT VOR/DME, ELN VOR/DME, HQM VORTAC, HUH VORTAC, MWH VOR/DME, OLM VORTAC, PAE VOR/DME, SEA VORTAC, YKM VORTAC, YVR VOR/DME, YXC VOR/DME, YYJ VOR/DME.

REMARKS:

ALTITUDE (2000) AT ZIGED IS BASED ON THE MVA AND A DIVERSE OBSTACLE ASSESMENT.
REFERENCE MAG VAR: KBFI 15E EPOCH YR: 2020.



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KENT	EIGHT	KENT8.ZIGED	SEVEN	06/25/2015	12 OCT 2017

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

OFFICE SYMBOL: FICO
DATE: 7/13/17

DEVELOPED BY: ROBERT GRIM **ROBERT E GRIM II** *Digitally signed by ROBERT E GRIM II*
Date: 2017.03.14 15:00:27 -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:

1. CHANGED DP ROUTE DESCRIPTION RWY 14L FROM CLIMB HEADING 132.00 AND I-BFI SE COURSE TO CROSS DUANE INT/I-BFI 4.78 DME AT 2000, MAINTAIN 2000 OR ATC ASSIGNED ALTITUDE, EXPECT RADAR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 3 MINUTES AFTER DEPARTURE, TO CLIMB HEADING 137.00 AND I-BFI SE COURSE TO CROSS ZIGED INT/I-BFI 13.00 DME AT 2000 OR ATC ASSIGNED ALTITUDE, FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 3 MINUTES AFTER DEPARTURE. - HEADING CHANGED DUE TO APT MAGVAR UPDATE. COMMON FIX CHANGED FROM DUANE TO ZIGED BASED ON ATC REQUEST.
2. CHANGED DP ROUTE DESCRIPTION RWY 14R FROM CLIMB HEADING 130.20 AND I-BFI SE COURSE TO CROSS DUANE INT/I-BFI 4.78 DME AT 2000, MAINTAIN 2000 OR ATC ASSIGNED ALTITUDE, EXPECT RADAR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 3 MINUTES AFTER DEPARTURE, TO CLIMB HEADING 135.20 AND I-BFI SE COURSE TO CROSS ZIGED INT/I-BFI 13.00 DME AT 2000 OR ATC ASSIGNED ALTITUDE, FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 3 MINUTES AFTER DEPARTURE. - HEADING CHANGED DUE TO APT MAGVAR UPDATE. COMMON FIX CHANGED FROM DUANE TO ZIGED BASED ON ATC REQUEST.
3. RWY 14L CONTROLLING OBSTACLES CHANGED FROM 330 FT MSL TREE 473120.03N/1221716.56W (CLIMB GRADIENT, CLIMB TO ALTITUDE), 479 FT MSL ANT ON BLDG 472945.69N/1221525.73W (CEILING, VISIBILITY), 566 FT MSL TANK 472932.00N/1221456.00W (SECONDARY CLIMB GRADIENT, CLIMB TO ALTITUDE) TO 342 FT MSL TREE 473120.07N/1221716.76W (CLIMB GRADIENT), 356 FT MSL TREE 473117.99N/1221711.65W (CLIMB-TO ALTITUDE), 530 FT MSL TREE 472945.68N/1221523.02W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 531 FT MSL TREE 473007.81N/1221551.25W (CEILING), 514 FT MSL TREE 472950.72N/1221523.47W (VISIBILITY).
4. RWY 14R: CONTROLLING OBSTACLES CHANGED FROM 463 FT MSL TREE 473007.83N/1221610.21W (CLIMB GRADIENT, CLIMB TO ALTITUDE), 485 FT MSL TREE 472936.87N/1221518.05W (CEILING), 378 FT MSL TREE 472922.37N/1221531.96W (VISIBILITY) TO 480 FT MSL TREE 473008.08N/1221610.27W (CLIMB GRADIENT), 502 FT MSL TREE 473003.90N/1221557.93W (CLIMB-TO ALTITUDE), 515 FT MSL TREE 472911.89N/1221440.30W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 599 FT MSL TREE 472909.99N/1221444.91W (CEILING), 495 FT MSL TREE 472909.99N/1221444.35W (VISIBILITY). - NEW EVALUATION
5. RWYS RENUMBERED FROM 13L/R, 31L/R TO 14L/R, 32L/R. - AIRPORT MAG VAR ROTATED FROM E20 TO E15.
6. UPDATED TAKEOFF OBSTACLE NOTES.

