

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BANGR	EIGHT	BANGR8.BANGR	SEVEN	25 AUG 2011	15 OCT 2015

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 16L: CLIMB HEADING 163.34 TO AT/ABOVE 932, THEN DIRECT CAVOB, THEN ON TRACK 164.64 TO CROSS RENBE AT OR ABOVE 3000, THEN ON DEPICTED ROUTE TO BANGR, CROSS BANGR AT OR ABOVE 10000, THENCE... TAKEOFF RWY 16C: CLIMB HEADING 163.34 TO AT/ABOVE 932, THEN DIRECT OTLIE, THEN ON TRACK 162.99 TO CROSS RENBE AT OR ABOVE 3000, THEN ON DEPICTED ROUTE TO BANGR, CROSS BANGR AT OR ABOVE 10000, THENCE... TAKEOFF RWY 16R: CLIMB HEADING 163.33 TO AT/ABOVE 932, THEN DIRECT WESET, THEN ON TRACK 159.90 TO CROSS RENBE AT OR ABOVE 3000, THEN ON DEPICTED ROUTE TO BANGR, CROSS BANGR AT OR ABOVE 10000, THENCE... TAKEOFF RWY 34L: CLIMB HEADING 343.33 TO AT/ABOVE 932, THEN DIRECT CUSBU, THEN ON TRACK 348.02 TO CROSS WUREL AT OR ABOVE 3100, THEN ON DEPICTED ROUTE TO BANGR, CROSS BANGR AT OR ABOVE 10000, THENCE... TAKEOFF RWY 34C: CLIMB HEADING 343.34 TO AT/ABOVE 932, THEN DIRECT NESOE, THEN ON TRACK 343.34 TO CROSS WUREL AT OR ABOVE 3100, THEN ON DEPICTED ROUTE TO BANGR, CROSS BANGR AT OR ABOVE 10000, THENCE... TAKEOFF RWY 34R: CLIMB HEADING 343.34 TO AT/ABOVE 932, THEN DIRECT DODVE, THEN ON TRACK 341.13 TO CROSS WUREL AT OR ABOVE 3100, THEN ON DEPICTED ROUTE TO BANGR, CROSS BANGR AT OR ABOVE 10000, THENCE...

...VIA (TRANSITION), MAINTAIN ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE/FLIGHT LEVEL 15NM FROM SEA VORTAC.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
ARRIE	BANGR8.ARRIE	BANGR	ARRIE	TRACK 285.17	26.76	14000	10000	
PANGL	BANGR8.PANGL	BANGR	PANGL	TRACK 298.19	43.06	14000	10000	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RNAV 1

NOTE: RADAR REQUIRED.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 16L, 16C, 16R HQM DME MUST BE OPERATIONAL.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWYS 34L, 34C, 34R PAE DME MUST BE OPERATIONAL.

NOTE: CROSS BANGR AT/ABOVE 10000.

TAKEOFF MINIMUMS: RWY 16L, 16R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3000, AND CLIMB OF 220 FT PER NM TO 10000. RWY 16C: STANDARD WITH MINIMUM CLIMB OF 410 FT PER NM TO 3000, AND CLIMB OF 220 FT PER NM TO 10000. RWY 34L, 34C, 34R: STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 3700, AND CLIMB OF 255 FT PER NM TO 10000.



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TAKEOFF OBSTACLES NOTES:

NOTE: RWY 16L, TREES BEGINNING 2908 FT FROM DER, 1064 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/476 FT MSL.

NOTE: RWY 16C, TREES BEGINNING 4477 FT FROM DER, 484 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/507 FT MSL.

NOTE: RWY 16R, TREES, ANTENNA ON BUILDING AND LIGHT POLE BEGINNING 488 FT FROM DER, 436 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/507 FT MSL. TREES BEGINNING 1137 FT FROM DER, 587 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/468 FT MSL.

NOTE: RWY 34L, FENCE 189 FT FROM DER, 401 FT RIGHT OF CENTERLINE, UP TO 12 FT AGL/420 FT MSL. TREES BEGINNING 4010 FT FROM DER, 857 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/522 FT MSL.

CONTROLLING OBSTACLES:

RWY 16L, 16C, 16R, 34L, 34C, 34R: 7956 AAO 474614.30N/1230736.30W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG-VAR: KSEA 17E EPOCH YR 10

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

SEATTLE-TACOMA INTL

SEATTLE, WASHINGTON

COMMUNICATIONS:

ATIS, CLNC DEL, DEP CON

FIXES AND/OR NAVAIDS:

SEA VORTAC, CVV VOR/DME



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REMARKS:

RWY 34L, 34C, 34R CLIMB RATE OF 490 TO 3700 IS COMBINATION OF CROSSING WUREL AT OR ABOVE 3100 AND CLIMB TO ALTITUDE TO CLEAR 7956 FT MSL OBSTACLE.

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, KSEA ATCT, APCH CON, ZSE ARTCC, WESTERN FPO

CHANGES:

1. ADDED CHART: TOP ALTITUDE: ASSIGNED BY ATC.

REASONS:

1. ATC REQUEST.



DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code		Superseded Number		Dated	Effective Date	
BANGR		EIGHT	BANGR8.BANGR		SEVEN		25 AUG 2011	15 OCT 2015	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW16L (AER)	472749.66N/1221827.90W	N	-	-	-	-			CLIMB GRADIENT 500 FT/NM TO 3000,
932 MSL		-	-	VA	180.34	-			CLIMB GRADIENT 220 FT/NM TO 10000
CAVOB	472346.29N/1221830.05W	Y	FO	DF	-	-			
RENBE	471913.31N/1221841.56W	Y	FB	TF	181.64	4.55	AT/ABOVE 3000		
RICHR	471824.08N/1222615.23W	Y	FB	TF	260.89	5.21			
TOMRE	472007.64N/1223100.82W	Y	FB	TF	298.10	3.67			
BANGR	473838.05N/1225453.69W	Y	FB	TF	318.97	24.60	AT/ABOVE 10000		
RW16C (AER)	472749.71N/1221839.55W	N	-	-	-	-			CLIMB GRADIENT 410 FT/NM TO 3000,
932 MSL		-	-	VA	180.34	-			CLIMB GRADIENT 220 FT/NM TO 10000
OTLIE	472352.17N/1221841.62W	Y	FO	DF	-	-			
RENBE	471913.31N/1221841.56W	Y	FB	TF	179.99	4.65	AT/ABOVE 3000		
RICHR	471824.08N/1222615.23W	Y	FB	TF	260.89	5.21			
TOMRE	472007.64N/1223100.82W	Y	FB	TF	298.10	3.67			
BANGR	473838.05N/1225453.69W	Y	FB	TF	318.97	24.60	AT/ABOVE 10000		
RW16R (AER)	472749.81N/1221904.29W	N	-	-	-	-			CLIMB GRADIENT 500 FT/NM TO 3000,
932 MSL		-	-	VA	180.33	-			CLIMB GRADIENT 220 FT/NM TO 10000
WESET	472421.05N/1221906.07W	Y	FO	DF	-	-			
RENBE	471913.31N/1221841.56W	Y	FB	TF	176.90	5.14	AT/ABOVE 3000		
RICHR	471824.08N/1222615.23W	Y	FB	TF	260.89	5.21			
TOMRE	472007.64N/1223100.82W	Y	FB	TF	298.10	3.67			
BANGR	473838.05N/1225453.69W	Y	FB	TF	318.97	24.60	AT/ABOVE 10000		

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW34L (AER)	472625.92N/1221905.01W	N	-	-	-	-			CLIMB GRADIENT 490 FT/NM TO 3700,
932 MSL		-	-	VA	000.33	-			CLIMB GRADIENT 255 FT/NM TO 10000
CUSBU	472954.68N/1221903.23W	Y	FO	DF	-	-			
WUREL	473319.52N/1221836.66W	Y	FB	TF	005.02	3.43	AT/ABOVE 3100		
ATOME	473627.23N/1222147.61W	Y	FB	TF	325.48	3.80			
BREMM	473712.00N/1222806.00W	Y	FB	TF	279.96	4.33			
BANGR	473838.05N/1225453.69W	Y	FB	TF	274.69	18.18	AT/ABOVE 10000		
RW34C (AER)	472616.69N/1221840.36W	N	-	-	-	-			CLIMB GRADIENT 490 FT/NM TO 3700,
932 MSL		-	-	VA	000.34	-			CLIMB GRADIENT 255 FT/NM TO 10000
NESOE	472955.64N/1221838.45W	Y	FO	DF	-	-			
WUREL	473319.52N/1221836.66W	Y	FB	TF	000.34	3.40	AT/ABOVE 3100		
ATOME	473627.23N/1222147.61W	Y	FB	TF	325.48	3.80			
BREMM	473712.00N/1222806.00W	Y	FB	TF	279.96	4.33			
BANGR	473838.05N/1225453.69W	Y	FB	TF	274.69	18.18	AT/ABOVE 10000		
RW34R (AER)	472552.22N/1221828.94W	N	-	-	-	-			CLIMB GRADIENT 490 FT/NM TO 3700,
932 MSL		-	-	VA	000.34	-			CLIMB GRADIENT 255 FT/NM TO 10000
DODVE	472955.59N/1221826.80W	Y	FO	DF	-	-			
WUREL	473319.52N/1221836.66W	Y	FB	TF	358.13	3.40	AT/ABOVE 3100		
ATOME	473627.23N/1222147.61W	Y	FB	TF	325.48	3.80			
BREMM	473712.00N/1222806.00W	Y	FB	TF	279.96	4.33			
BANGR	473838.05N/1225453.69W	Y	FB	TF	274.69	18.18	AT/ABOVE 10000		

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BANGR		EIGHT		BANGR8.BANGR			SEVEN		25 AUG 2011	15 OCT 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
BANGR	473838.05N/1225453.69W	Y	-	IF	-	-			BANGR8.ARRIE	
ARRIE	475247.61N/1232833.00W	Y	FB	TF	302.17	26.76				
BANGR	473838.05N/1225453.69W	Y	-	IF	-	-			BANGR8.PANGL	
PANGL	480900.97N/1234012.86W	Y	FB	TF	315.19	43.06				