

<b>RNAV - STANDARD</b> <b>US DEPARTMENT OF TRANSPORTATION</b> <b>FEDERAL AVIATION ADMINISTRATION</b>							<b>INSTRUMENT APPROACH PROCEDURE</b> <b>TITLE 14 CFR PART 97.33</b>										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW16L  CLIMB DIRECT CAVOB TO CROSS CAVOB AT OR BELOW 2000 THEN CLIMB TO 5000 ON TRACK 163.91 TO MILLT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.  ADDITIONAL FLIGHT DATA: HOLD S, RT, 343.66 INBOUND. FAS OBST: 574 TREE 472805N/1221800W CHART 696 CTRL TWR 472720N/1221805W. DISTANCE TO THLD FROM 267 HAT: 0.66 NM. CHART VDP AT 1.03 NM TO RW16L* *LNAV ONLY. WAAS CHANNEL # 63202 REFERENCE PATH ID: W16A CHART KBFI CHART MAXIMUM 2000 AT CAVOB. CHART AT/ABOVE 6000 AT GRIFY. CHART CIRCLING ICON. LTP HAE: 108.8 M												
PAE VOR/DME				KENMO (TF) (FB) (RNP 2.00)				168.89 / 13.25				5000														
KENMO (IAF)				HELZR (TF) (FB) (RNP 1.00)				164.34 / 3.12				4000														
GRIFY (IAF)				HELZR (TF) (FB) (RNP 1.00)				135.86 / 8.25				4000														
HELZR (IF)				KARFO (TF) (FB) (RNP 1.00)				164.34 / 2.52				3200														
KARFO				DGLAS (TF) (FB) (RNP 1.00)				164.34 / 4.10				1900														
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HELZR 3. FAC: 164.34 FAF: DGLAS DIST FAF TO MAP: 4.43 THLD: 4.43 4. MIN. ALT: HELZR 4000, KARFO 3200, DGLAS 1900 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: DGLAS 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.4 34:1 IS CLEAR 8. MSA FROM: RW16L 6400																	MAG VAR: 16E EPOCH YEAR: 2020									
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																	ALTERNATE: N A			STANDARD						
CATEGORY =====>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
LPV DA**	700	2400	267	700	2400	267	700	2400	267	700	2400	267	700	2400	267											
LNAV/VNAV DA	766	3200	333	766	3200	333	766	3200	333	766	3200	333	766	3200	333											
LNAV MDA	840	2400	407	840	2400	407	840	4000	407	840	4000	407	840	4000	407											
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 16R. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PAE VOR/DME AIRWAY RADIALS 163 CW 236. (CONTINUED ON PAGE 2)																										
CITY AND STATE  SEATTLE, WA				ELEVATION: 433 TDZE: 433 AIRPORT NAME:  SEATTLE-TACOMA INTL				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 16L, AMDT 5A 12 OCTOBER 2017						SUP:								
																		AMDT: 5								
																		DATED 10/15/2015								

QUALITY  
 16  
 CHECKED

**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**TERMINAL ROUTES, (CONT.):**

FROM	TO	COURSE AND DISTANCE	ALTITUDE
DGLAS (FAF)	RW16L (MAP) (TF) (FO) (RNP 0.30)	164.34 / 4.43	
RW16L (MAP)	700 MSL (CA)	164.34	
700 MSL	CAVOB (DF) (FB) (RNP 1.00)		
CAVOB	MILLT (TF) (FO) (RNP 1.00)	163.91 / 8.65	5000

**NOTES, (CONT.):**

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500, AND INCREASE LNAV CATS C/D VISIBILITY TO RVR 6000.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).

CHART NOTE: \*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

QUALITY  
16  
CHECKED

CITY AND STATE

SEATTLE, WA

ELEVATION: 433

TDZE: 433

AIRPORT NAME:

SEATTLE-TACOMA INTL

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**RNAV (GPS) Y RWY 16L, AMDT 5A**

12 OCTOBER 2017

SUP:

AMDT: **5**

DATED: **10/15/2015**

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSEA
RUNWAY	RW16L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	472749.6635N
LTP/FTP LONGITUDE	1221827.9040W
LTP/FTP ELLIPSOIDAL HEIGHT	+01088
FPAP LATITUDE	472552.2165N
FPAP LONGITUDE	1221828.9440W
THRESHOLD CROSSING HEIGHT (TCH)	00055.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 7C03A3E8

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+01318
FPAP ORTHOMETRIC HEIGHT	+01318

QUALITY  
4  
CHECKED

CITY AND STATE  SEATTLE, WA	ELEVATION: 433 AIRPORT NAME:  SEATTLE-TACOMA INTL	TDZE: 433   SEATTLE-TACOMA INTL	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) Y RWY 16L, AMDT 5A  12 OCTOBER 2017	SUP:
					AMDT: 5
					DATED: 10/15/2015