

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KSEA	<u>PROCEDURE NAME</u> ILS OR LOC RWY 16L ILS RWY 16L (SA CAT I), ILS RWY 16L (CAT II), ILS RWY 16L (CAT III)	<u>ORIGINAL/AMENDMENT</u> 8A	<u>CITY</u> SEATTLE	<u>STATE</u> WA		
<u>AIRPORT ELEVATION</u> 432	<u>TDZE</u> 432	<u>SUPERSEDED</u> ILS OR LOC RWY 16L ILS RWY 16L (SA CAT I), ILS RWY 16L (CAT II), ILS RWY 16L (CAT III)	<u>ORIGINAL/AMENDMENT</u> 8	<u>DATED</u> 02/28/2019	<u>MAG VAR</u> 16E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-SNQ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 JUNE 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
PAE VOR/DME		ZEDKI/I-SNQ 22.25 DME/RADAR					168.97	6.99	7000
ZEDKI/I-SNQ 22.25 DME/RADAR	IAF	WUMUL/I-SNQ 19.10 DME/RADAR					164.34	3.14 (I-SNQ)	6000
WUMUL/I-SNQ 19.10 DME/RADAR	IAF	KENMO/I-SNQ 15.94 DME/RADAR					164.34	3.16 (I-SNQ)	5000
KENMO/I-SNQ 15.94 DME/RADAR	IAF	HELZR/I-SNQ 12.82 DME/RADAR					164.34	3.12 (I-SNQ)	4000
GRIFY	IAF	HELZR/I-SNQ 12.82 DME/RADAR		TF	FB	1.00	135.86	8.25	4000
HELZR/I-SNQ 12.82 DME/RADAR	IF	KARFO/I-SNQ 10.30 DME/RADAR					164.34	2.52 (I-SNQ)	3200
KARFO/I-SNQ 10.30 DME/RADAR		DGLAS/I-SNQ 6.20 DME/RADAR					164.34	4.10 (I-SNQ)	1900

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.43 NM AFTER DGLAS/I-SNQ 6.20 DME/RADAR OR AT I-SNQ 1.77 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 900 ON HEADING 165 THEN ON SEA VORTAC R-161 TO CROSS TEBNE/SEA 2.40 DME/RADAR AT OR BELOW 2000 THEN CLIMB TO 5000 ON SEA VORTAC R-161 TO MILLT/SEA 11.00 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

(SIMULTANEOUS OPERATIONS NA) CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 169 AND OLM VORTAC R-048 TO PEYOY/OLM 20.00 DME AND HOLD. (DME REQUIRED)



AIRPORT ID KSEA	PROCEDURE NAME ILS OR LOC RWY 16L ILS RWY 16L (SA CAT I), ILS RWY 16L (CAT II), ILS RWY 16L (CAT III)	ORIGINAL/AMENDMENT 8A	CITY SEATTLE	STATE WA
PROFILE:				
1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)
2. PROFILE STARTS AT ZEDKI				
3. FAF:	164.34	FAF: DGLAS/I-SNQ 6.20 DME/RADAR	DIST FAF TO MAP: 4.43	DIST FAF TO THLD: 4.43
4. MIN ALT:	ZEDKI/I-SNQ 22.25 DME/RADAR 7000, WUMUL/I-SNQ 19.10 DME/RADAR 6000, KENMO/I-SNQ 15.94 DME/RADAR 5000, HELZR/I-SNQ 12.82 DME/RADAR 4000, KARFO/I-SNQ 10.30 DME/RADAR 3200, DGLAS/I-SNQ 6.20 DME/RADAR 1900			
5. DIST TO THLD FROM OM:	MM:	IM:	100 HAT: 842	150 HAT: 1796 GS ANT: 1089
6. MIN GS INCPT:	1900	GS ALT AT FAF :	DGLAS/I-SNQ 6.20 DME/RADAR 1900	OM: MM: IM:
7. GP ANGLE:	3.00	34:1:	20:1:	TCH: 55.6
8. MSA FROM: SEA VORTAC 360-160 6400, 160-250 2200, 250-360 3400				

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.
RNP APCH-GPS, FROM GRIFY

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED: S-ILS 16L: CAT B, C, D, RA 248, RVR 1400, HAT 150, DA 582 MSL.
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED: S-ILS 16L: CAT B, C, D, RA 176, RVR 1200, HAT 100, DA 532 MSL.
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED: S-ILS 16L CAT III: CAT B, C, D, RVR 300
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

ADDITIONAL FLIGHT DATA:

CHART KBFI IN PLAN AND PROFILE VIEWS.
CHART MANDATORY 6000 AT GRIFY.
CHART: 696 ATC TOWER 472721N/1221805W
CHART SPEED ICON IN PLANVIEW AT GRIFY: MAX 210 KIAS.
HOLD S, RT, 340.66 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE PEYOY/OLM 20.00 DME, RT, 228.00 INBOUND.
CHART FAS OBST: 542 TREE 472940N/1221851W.
CHART VDP AT 2.93 DME
DISTANCE VDP TO THLD 1.16 NM.
CHART IN PLANVIEW: PEYOY/OLM 20.00 DME.
CHART CIRCLING ICON.



AIRPORT ID
KSEA

PROCEDURE NAME
ILS OR LOC RWY 16L
ILS RWY 16L (SA CAT I),
ILS RWY 16L (CAT II),
ILS RWY 16L (CAT III)

ORIGINAL/AMENDMENT
8A

CITY
SEATTLE

STATE
WA

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 16L	697	2000	265	632	1800	200	632	1800	200	632	1800	200			
S-LOC 16L	880	2400	448	880	2400	448	880	4500	448	880	4500	448			
CIRCLING	1000	1	568	1000	1	568	1000	1 1/2	568	1000	2	568			

CHANGES - REASONS

- 1) REMOVED CAT A MINIMA FROM ILS SA CAT I, ILS CAT II AND ILS CAT III - IAW APPROVED WAIVER DATED 2-11-2013
- 2) REMOVED NOTE: GRIFY: RNAV 1-GPS REQUIRED - IAW 8260.19I
- 3) ADDED NOTE: RNP APCH-GPS, FROM GRIFY - IAW 8260.19I

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZSE, SEA APCH, SEA ATCT, AMGR, FPT, ATA

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

DEVELOPED BY

DONALD H. LANIER (PETER GETZ)

Digitally signed by

DONALD H LANIER

Mar 03, 2021

Digitally signed by

DONALD H LANIER

Mar 03, 2021

OFFICE

AJV-A431

DATE

01/20/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Mar 03, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER