

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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</u> ASTORIA RGNL	<u>AIRPORT ID</u> KAST	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> ASTORIA	<u>STATE</u> OR
<u>AIRPORT ELEVATION</u> 14	<u>TDZE</u> 14	<u>SUPERSEDED</u> RNAV (GPS) RWY 8	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 12/11/2014	<u>MAG VAR</u> 15E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 JULY 2018	<u>REQUIRED EFFECTIVE DATE</u> 07/19/2018	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
ILWAC	IAF	SEAME		TF	FB	1.00	152.58	9.46	2000
SEAME	IF	SAAND		TF	FB	1.00	080.30	5.00	1700
SAAND	FAF	HISET/2.00 NM TO RW08		TF	FB	0.30	080.39	3.18	
HISET/2.00 NM TO RW08		RW08	MAP	TF	FO	0.30	080.39	2.00	
RW08	MAP	500 MSL		CA			080.39		500
500 MSL		SEAME		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LP: RW08
 LNAV: RW08

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 225 KIAS UNTIL SEAME) CLIMB TO 500, THEN CLIMBING RIGHT TURN TO 2000 DIRECT SEAME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT SEAME
3. FAC: 080.39 FAF: SAAND DIST FAF TO MAP: 5.18 DIST FAF TO THLD: 5.18
4. MIN ALT: SEAME 2000, SAAND 1700, HISET/2.00 NM TO RW08 680
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: HAT:
6. MIN GP INCPT: GP ALT AT FAF : OM: MM: IM:
7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH:
8. MSA FROM: RW08 4500

PBN EQUIPMENT REQUIREMENTS NOTES

PBN REQUIREMENTS NOTE: RNP APCH.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ILWAC ON V112 WESTBOUND AND ON T257 NORTHBOUND.
CHART NOTE: RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING RWY 32 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
SAAND TO RW08: 3.00/37.9.
CHART W-570
CHART VDP AT 1.16 NM TO RW08
WAAS CHANNEL #40032
REFERENCE PATH ID: W08A
CHART FAS OBST: 164 TREE 460929N/1235433W.
CHART FAS OBST: 200 TREE 460909N/1235422W.
HOLD NW, LT, 152.58 INBOUND
LTP HAE: -19.8M

MINIMUMS:

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

ALTERNATE: NA ☐ CAT C 1100-3, CAT D 1200-3

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
LP MDA	420	1	406	420	1	406	420	1 1/8	406	420	1 1/8	406			
LNAV MDA	460	1	446	460	1	446	460	1 3/8	446	460	1 3/8	446			
CIRCLING	660	1	646	800	1	786	1080	3	1066	1160	3	1146			



CHANGES - REASONS

1. TERMINAL ROUTES, PROFILE LINE 3 - FAC AND ADDITIONAL FLIGHT DATA - HOLDING: ALL HEADINGS/COURSES CHANGED 4 DEGREES - MAG VAR UPDATED FROM 19E, EPOCH YEAR 1990 TO 15E, EPOCH YEAR 2020.
2. TERMINAL ROUTES, SEAME TO SAAND, RNP VALUE CHANGED FROM 0.50 TO 1.00.
3. PROFILE, LINE 7, 20:1 IS CLEAR ADDED - IAW 8260.19H PARA 8-6-7G(3).
4. LP MINIMA: CATS A-D CHANGED FROM 380 MDA/367 HAT TO 420 MDA/406 HAT. CATS C-D VISIBILITY CHANGED FROM 1 TO 1 1/8 - UPDATED CONTROLLING OBSTACLE.
5. LNAV MINIMA: CATS A-D, 447 HAT CHANGED TO 446 HAT - PROCEDURES WITH CHARTED THRE TO BE AMENDED TO USE TDZE PER MEMO 203 DATED FEB 21, 2014.
6. CIRCLING MINIMA: CAT A CHANGED FROM 700 MDA/685 HAA TO 660 MDA/646 HAA, CAT B CHANGED FROM 760 MDA/745 HAA TO 800 MDA/786 HAA, CAT C CHANGED FROM 800 MDA/785 HAA/2 1/4 VIS TO 1080 MDA/1066 HAA/3 VIS AND CAT D CHANGED FROM 900 MDA/885 HAA TO 1160 MDA/1146 HAA - NEW CIRCLING CRITERIA APPLIED.
7. ADDITIONAL FLIGHT DATA, FAS OBST DELETED: 129 TREE 460947N/1235422W AND FAS OBST ADDED: 164 TREE 460929N/1235433W - UPDATED FAS OBSTACLE.
8. ADDITIONAL FLIGHT DATA, NOTE CHANGED FROM 'CHART VDP AT 1.03 NM TO RW08' TO 'CHART VDP AT 1.16 NM TO RW08' - UPDATED EVALUATION.
9. ADDITIONAL FLIGHT DATA, NOTE ADDED: CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
10. ADDITIONAL FLIGHT DATA, MAG VAR CHANGED FROM 19E 1990 TO 15E 2020.
11. NOTE ADDED: PBN REQUIREMENTS NOTE: RNP APCH - PER MEMO 257.
12. NOTE DELETED: DME/DME RNP-0.3 NA - PER MEMO 257.
13. NOTE DELETED: VDP NA WITH KELSO ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
14. NOTE DELETED: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KELSO ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET, INCREASE LNAV CATS C AND D AND CIRCLING CAT B VISIBILITY 1/4 MILE, LP CATS C AND D VISIBILITY 3/8 MILE, AND CIRCLING CAT C VISIBILITY 1/2 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
15. NOTE DELETED: LIMIT MISSED APPROACH TO 225 KIAS AND ADDED TO MISSED APPROACH INSTRUCTIONS - IAW .19H PARA 8-6-6D (11).
16. NOTE DELETED: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS PUBLISHED IAW 8260.19H PARA 8-6-11K(3).
17. NOTE ADDED: RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS PUBLISHED IAW 8260.19H PARA 8-6-11K(3).
18. NOTE ADDED: CIRCLING RWY 32 NA AT NIGHT - 20:1 CIRCLING PENETRATIONS - PUBLISHED IAW 8260.19H PARA 8-6-11O(2)(G).
19. NOTE DELETED: ALTERNATE MINIMUMS NA WHEN LOCAL WEATHER NOT AVAILABLE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
20. ALTERNATE MINS NOTE UPDATED FROM '@ CAT C 800-2 1/4, CAT D 900-3' TO '@ CAT C 1100-3, CAT D 1200-3' - CIRCLING CAT C/D MDAS ABOVE STANDARD.
21. AIRPORT ELEV CHANGED FROM 15 TO 14 AND THRE 13 CHANGED TO TDZE 14 - NEW SURVEY DATA.
22. CRC REMAINDER CHANGED FROM D3095417 TO 8F56284B - LTP/FPAP COORDINATES AND LTP/FTP ELLIPSOIDAL HEIGHT UPDATED.

8260-3 PDF EDITED:

1. ADDITIONAL FLIGHT DATA, ADDED 'CHART FAS OBST:' BEFORE 200 TREE 460909N/1235422W.
2. ADDITIONAL FLIGHT DATA, LTP HAE: -19.8.
3. ALTERNATE, 'STANDARD' DELETED.
4. FAS DATA BLOCK, LTP/FTP ELLIPSOIDAL HEIGHT, CHANGED TO -00198.

8260-9 PDF EDITED:

1. CIRCLING CAT C ADJUSTMENTS, DELETED DUPLICATE AC50.
2. AIRSPACE FORM, RUNWAY APCH END AND DIST FURTHEST FROM ARP.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZSE, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
DONALD H LANIER

Jun 12, 2018

OFFICE

FIOG

DATE

DEVELOPED BY

Digitally signed by

ANDREA CHANEY **ANDREA J CHANEY**

OFFICE

AJV-5433

DATE

04/05/2018

APPROVED BY

May 02, 2018

PATRICK MULQUEEN

Digitally signed by

DONALD H LANIER

Jun 12, 2018

OFFICE

AJV-5430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAST
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	460935.1205N
LTP/FTP LONGITUDE	1235318.8335W
LTP/FTP ELLIPSOIDAL HEIGHT	-00198
FPAP LATITUDE	460926.5970N
FPAP LONGITUDE	1235111.2430W
THRESHOLD CROSSING HEIGHT (TCH)	00038.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	8F56284B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+00038
FPAP ORTHOMETRIC HEIGHT	+00038

