

**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.

AIRPORT ID AST	PROCEDURE NAME RNAV (GPS) RWY 8	ORIGINAL/AMENDMENT 1B	CITY ASTORIA	STATE OR
AIRPORT ELEVATION 15	TDZE 14	SUPERSEDED RNAV (GPS) RWY 8	DATED 11/08/2018	MAG VAR 15E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2020
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
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:

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



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 8 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: CIRCLING RWY 14, 32 NA AT NIGHT.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ILWAC ON V112 NORTHWESTBOUND AND ON T257 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

HOLD NW, LT, 152.58 INBOUND.
 CHART FAS OBST: 208 TREE (41-095877) 460907N/1235423W, 182 TREE (41-096448) 461003N/1235554W.
 CHART W-570A, W-570B, W-570C.
 CHART VDP AT 1.22 NM TO RW08.
 WAAS CHANNEL # 40032
 REFERENCE PATH ID: W08A
 SAAND TO RW08: 3.00/37.9.
 LTP HAE: -19.7 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT B 900-2, CAT C 1100-3, CAT D 1200-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LP MDA	440	1	426	440	1	426	440	1 1/4	426	440	1 1/4	426			
LNAV MDA	460	1	446	460	1	446	460	1 3/8	446	460	1 3/8	446			
CIRCLING	660	1	645	820	1	805	1080	3	1065	1160	3	1145			

CHANGES - REASONS

1. INCREASED LP MDA/HAT FROM 420/406 TO 440/426 AND CAT C/D VIS FROM 1 1/8 TO 1 1/4 - NEW CONTROLLING OBSTACLE.
2. INCREASED CIRCLING CAT B CMDA/HAA FROM 800/786 TO 820/805 - NEW CONTROLLING OBSTACLE.
3. CHANGED DISTANCE VDP FROM 1.16 TO 1.22 - LP MDA/HAT INCREASED.
4. CHANGED RNP APCH TO RNP APCH - GPS - 8260.19K 8-6-8D(5).
5. REMOVED CHART CIRCLING ICON - NO LONGER REQUIRED BY 8260.19K.
6. ADDED RWY 14 TO CIRCLING RWY 32 NA AT NIGHT - CIRCLING 20:1 PENETRATIONS.
7. CHANGED FPAP COORDINATES FROM 460926.5970N/1235111.2430W TO 460926.5895N/1235111.2395W - NEW FPAP CALCULATION.
8. CHANGED LTP/FTP LONGITUDE FROM 1235318.8335W TO 1235318.8295W - NEW SURVEY.
9. CHANGED LTP/FTP ELLIPSOIDAL HEIGHT FROM -00198 TO -00197 - NEW LTP/FTP LONGITUDINAL COORDINATES.
10. CHANGED FAS TCH FROM 38 TO 37.9 - MATCHES ACTUAL TCH.
11. CHANGED LTP ORTHOMETRIC HEIGHT FROM +00038 TO +00037 - NEW FAS TCH VALUE.
12. CHANGED FPAP ORTHOMETRIC HEIGHT FROM +00038 TO +00037 - NEW FAS TCH VALUE.
13. CHANGED CRC REMAINDER FROM 8F56284B TO BA40E1EF - MULTIPLE NEW FAS DATA VALUES.
14. INCORPORATED CHANGES FROM PREVIOUS P-NOTAM.
15. CHANGED AIRPORT ELEVATION FROM 14 TO 15 - NEW AIRPORT SURVEY.
16. CHANGED NOTE ARRIVAL DIRECTION FROM ILWAC ON V112 FROM WESTBOUND TO NORTHWESTBOUND - FORM ERROR CORRECTION.
17. ADDITIONAL FLIGHT DATA: CHANGED FAS OBSTACLES FROM "CHART FAS OBST: 164 TREE 460929N/1235433W. 200 TREE 460909N/1235422W" TO "208 TREE (41-095877) 460907N/1235423W, 182 TREE (41-096448) 461003N/1235554W." - NEW CONTROLLING OBSTACLES.
18. ADDITIONAL FLIGHT DATA/FAS DATA: LTP HAE CHANGED FROM -19.8/-00198 TO -19.7/-00197 - NEW LTP/FTP COORDINATES.
19. MINIMUMS: CIRCLING CAT A HAA CHANGED FROM 646 TO 645, CAT C HAA FROM 1066 TO 1065, AND CAT D HAA FROM 1146 TO 1145 - NEW AIRPORT SURVEY/ARPT ELEV CHANGED.
20. CHANGED CHART W-570 TO CHART W-570A, W-570B, W-570C - W-570 DOES NOT EXIST ANYMORE.



AIRPORT ID
AST

PROCEDURE NAME
RNAV (GPS) RWY 8

ORIGINAL/AMENDMENT
1B

CITY
ASTORIA

STATE
OR

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZSE, AMGR

FLIGHT CHECKED BY

Digitally signed by

ROBERT G HAMILTON

Feb 04, 2026

OFFICE

AJF

DATE

01/29/2026

DEVELOPED BY

ALLAN WILL (TIMOTHY DUNN)

Digitally signed by

ROBERT G HAMILTON

Feb 04, 2026

OFFICE

AJV-A33

DATE

08/25/2025

APPROVED BY

KYLE THOMPSON

Digitally signed by

ROBERT G HAMILTON

Feb 04, 2026

OFFICE

AJV-A33

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

0
0
KAST
RW08
0
0
W08A
460935.1205N
1235318.8295W
-00197
460926.5895N
1235111.2395W
00037.9
F
03.00
106.75
1072
40.0
00.0

CRC REMAINDER

BA40E1EF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K1
+00037
+00037



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> AST	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8	<u>AMDT NO.</u> 1B	<u>CITY</u> ASTORIA	<u>STATE</u> OR	<u>AIRPORT ELEVATION</u> 15	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL
FROM ILWAC **TO** SEAME

RNP DISTANCE PAT MAP HAT HMAS
1.00 9.46

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	461600.00N/1240900.00W	205	50	20	2C	1000				AT795	2000
TERRAIN	461715.00N/1240736.00W	3 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM SEAME **TO** SAAND

RNP DISTANCE PAT MAP HAT HMAS
1.00 5.00

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	461000.00N/1240300.00W	205	50	20	2C	500				AT995	1700
TERRAIN	461018.57N/1240418.87W	0 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
AST

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1B

CITY
ASTORIA

STATE
OR

AIRPORT ELEVATION
15

FACILITY
RNAV

FINAL: LP

FROM
SAAND

TO
HISET/2.00 NM TO RW08

RNP 0.30 **DISTANCE** 3.18 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	461000.00N/1235824.00W	253	215	8	4B	250				RA100 DG77	680

COMPUTATIONS

ALT **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

FINAL: LP STEPDOWN

FROM
HISET/2.00 NM TO RW08

TO
RW08

RNP 0.30 **DISTANCE** 2.00 **PAT** **MAP** RW08 **HAT** 426 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (41-096448)	461002.82N/1235554.34W	182	20	3	1A	250					440

COMPUTATIONS

ALT **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

FINAL: LNAV

FROM
SAAND

TO
HISET/2.00 NM TO RW08

RNP 0.30 **DISTANCE** 3.18 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	461030.00N/1235757.00W	292	215	8	4B	250				RA100 DG38	680

COMPUTATIONS

ALT **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTA**

SEGMENT REMARKS:



AIRPORT ID
AST

PROCEDURE NAME
RNAV (GPS) RWY 8

AMDT NO.
1B

CITY
ASTORIA

STATE
OR

AIRPORT ELEVATION
15

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
HISET/2.00 NM TO RW08

TO
RW08

RNP
0.30

DISTANCE
2.00

PAT

MAP
RW08

HAT
446

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (41-095877)	460907.45N/1235423.40W	208	20	3	1A	250					460

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LP

FROM
RW08

TO
SEAME

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
340

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2000
AAO	460557.00N/1234936.00W	565	215	8	4B	1000					1600
TERRAIN	460657.00N/1235351.00W	446 (400)								AS1500	1900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
AST

PROCEDURE NAME
RNAV (GPS) RWY 8

AMDT NO.
1B

CITY
ASTORIA

STATE
OR

AIRPORT ELEVATION
15

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM RW08 **TO** SEAME

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
360

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	460412.00N/1234845.00W	1218	215	8	4B		ASC				2000
AAO	460557.00N/1234936.00W	565	215	8	4B	1000					1600
TERRAIN	460657.00N/1235351.00W	446 (400)								AS1500	1900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MA 225 KIAS RESTRICTION USED TO MITIGATE LNAV CAT D PENETRATOR. MDA ADJUSTMENT NOT UTILIZED/REQUIRED.

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (41-096153)	460808.34N/1235347.84W	1.30	645	324	20	10	1B	300		XP36	660
CATEGORY B											
TREE (41-095817)	460804.84N/1235025.08W	1.81	805	515	20	10	1B	300			820
CATEGORY C											
MONUMENT (41-000090)	461052.72N/1234903.27W	2.84	1065	725	20	3	1A	300		XP55	1080
CATEGORY D											
AAO	461100.00N/1234745.00W	3.71	1145	814	215	8	4B	300		XP46	1160

CIRCLING REMARKS:

XP = INCREASES TO CURRENT MINIMA.



CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 14	
20:1		
40 TREE (41-096584) 460948.4100N/1235300.4300W (12.24)	39 TREE (41-094861) 460948.5600N/1235259.8700W (11.43)	
37 TREE (41-095620) 460949.0300N/1235258.9900W (8.67)	36 TREE (41-095112) 460947.7100N/1235303.6200W (6.42)	
41 TREE (41-096033) 460949.2500N/1235302.9900W (5.42)	37 TREE (41-095177) 460949.6300N/1235259.6300W (4.95)	
36 TREE (41-095402) 460948.0000N/1235305.0000W (2.95)	32 TREE (41-096445) 460947.5600N/1235304.8800W (1.13)	
37 TREE (41-025209) 460950.0000N/1235301.1700W (0.86)		
FINAL TYPE	CIRCLING RWY 32	
20:1		
116 TREE (41-096265) 460844.7200N/1235222.9600W (13.44)	92 TREE (41-095474) 460848.8300N/1235218.0900W (0.47)	
FINAL TYPE	LP AND LNAV:	
34:1		
122 TREE (41-096470) 460932.4000N/1235355.7700W (40.33)	116 TREE (41-095807) 460932.4100N/1235354.5200W (36.9)	
114 TREE (41-029605) 460932.6000N/1235353.9600W (36)	117 TREE (41-029608) 460932.5200N/1235358.1300W (30.43)	
107 TREE (41-041002) 460932.3700N/1235355.4500W (26)	115 TREE (41-029609) 460935.5800N/1235359.6500W (24.43)	
107 TREE (41-096271) 460935.0400N/1235356.2200W (23.65)	100 TREE (41-029607) 460934.3200N/1235355.8200W (17.68)	
92 TREE (41-029600) 460934.6900N/1235352.8700W (15.66)	106 TREE (41-029610) 460934.6300N/1235359.8300W (15.33)	
92 TREE (41-096242) 460934.0600N/1235353.2400W (15.07)	129 TREE (41-029881) 460934.4800N/1235412.9900W (11.25)	
104 TREE (41-029612) 460934.9400N/1235401.2700W (10.27)	145 TREE (41-029884) 460947.2800N/1235420.0000W (9.17)	
148 TREE (41-029889) 460940.8500N/1235422.3500W (9.15)	122 TREE (41-024490) 460933.5200N/1235412.1300W (6.29)	
96 TREE (41-029611) 460937.2000N/1235359.7800W (4.7)	98 TREE (41-041096) 460933.5200N/1235401.8000W (3.58)	
141 TREE (41-095604) 460941.0200N/1235421.8700W (3.09)		
PENETRATIONS REMARKS:		

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

AVERAGE VEGETATION HEIGHT OF 100 FT PER WESTERN FPT.

SHIP OBSTACLES IN INITIAL AND INTERMEDIATE SEGMENTS USED 205 FT MSL SHIP MAST HEIGHT PER WESTERN FPT.

LPV AND LNAV/VNAV NOT DEVELOPED PER FPT.

TAA NOT DEVELOPED PER FPT REQUEST.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KLS ALTIMETER SETTING AND INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND LP VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT B 1/4 SM.

VDP NA WHEN USING KLS ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.18
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	095.39
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.98
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	095.39
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN)

460935.12N/1235318.83W

ARP COORDINATES

460928.72N/1235243.05W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 26 DISTANCE 0.49 NM

FAF COORDINATES

461004.54N/1240043.98W

FIX NAME COORDINATES

REMARKS

THLD DISPLACED 300FT, ACTUAL COORDINATES: 460935.40N/1235323.07W

PART E: PREPARED BY

NAME

ALLAN WILL (TIMOTHY DUNN)

OFFICE

AJV-A33

DATE

08/25/2025

TITLE

AERONAUTICAL INFORMATION SPECIALIST