

**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</u> PORTLAND-HILLSBORO	<u>AIRPORT ID</u> KHIO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 13R	<u>ORIGINAL/AMENDMENT</u> 11	<u>CITY</u> PORTLAND	<u>STATE</u> OR	
<u>AIRPORT ELEVATION</u> 208	<u>TDZE</u> 203	<u>SUPERSEDED</u> ILS OR LOC RWY 13R	<u>ORIGINAL/AMENDMENT</u> 10B	<u>DATED</u> 07/19/2018	<u>MAG VAR</u> 16E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> I-HIO	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 MARCH 2020	<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>
UBG VOR/DME		DUCKA INT/UBG 29.00 DME					317.82	29.00	4500
BTG VORTAC		DUCKA INT/UBG 29.00 DME					256.36	26.93	4500
DAFFI/UBG 29.00 DME CCW	IAF	DUCKA INT/UBG 29.00 DME	NOPT				29.00 DME ARC (UBG LRADIAL-322.00)		3900
DUCKA INT/UBG 29.00 DME	IF/IAF	COUVE INT/UBG 21.94 DME					127.58	7.41 (I-HIO)	3300
COUVE INT/UBG 21.94 DME		DOLLA INT					127.58	3.23 (I-HIO)	2900

MISSED APPROACH

MAP:

ILS: DA
LOC: 8.33 NM AFTER DOLLA INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT UBG VOR/DME AND HOLD. CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 120 AND BTG VORTAC R-175 TO CANBY/BTG 27.24 DME AND HOLD. (DME REQUIRED) CONTINUE CLIMB-IN-HOLD TO 4000.

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW DUCKA, RT, 127.58 INBOUND, 3900 FT. IN LIEU OF PT (IAF), MAX 4600.
- FAC: 127.58 FAF: DOLLA INT DIST FAF TO MAP: 8.33 DIST FAF TO THLD: 8.33
- MIN ALT: DUCKA INT/UBG 29.00 DME 3900, COUVE INT/UBG 21.94 DME 3300, DOLLA INT 2900, JIKIM INT 1660*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 880
- MIN GS INCPT: 2900 GS ALT AT FAF : DOLLA INT 2900 OM: MM: IM:
- GP ANGLE: 3.00 34:1 20:1 TCH: 47.9
- MSA FROM: PND NDB 030-180 3500, 180-280 5000, 280-030 4400



EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: CIRCLING TO RWY 13L, 31R NA AT NIGHT.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC RWY 13R ALL CATS.
*LOC ONLY
CHART NOTE: FOR INOPERATIVE ALS, INCREASE JIKIM FIX MINIMUMS CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: USE OF BTG R-256 AND UBG R-318 MAY BE NECESSARY TO LOCATE DUCKA INTERSECTION.
CHART CIRCLING ICON.
CHART UBG R-334 AT DAFFI.
CHART IN PLANVIEW: CANBY/BTG 27.24 DME
FAS OBST: 429 AAO 453651N/1230053W.
1415 AAO 454023N/1230550W, 639 AAO 453760N/1230123W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S CANBY/BTG 27.24 DME, RT, 354.63 INBOUND.
HOLD S, RT, 003.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: CAT A, B 1500-2, CAT C, D 1500-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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 13R	403	2400	200	403	2400	200	403	2400	200	403	2400	200			
S-LOC 13R	1660	6000	1457	1660	1 1/2	1457	1660	3	1457	1660	3	1457			
CIRCLING	1660	1 1/4	1452	1660	1 1/2	1452	1660	3	1452	1660	3	1452			
JIKIM FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)															
S-LOC 13R	680	2400	477	680	2400	477	680	5000	477	680	5000	477			
CIRCLING	680	1	472	720	1	512	720	1 1/2	512	980	2 1/2	772			



