

**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SUPERSEDED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>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>	<u>EPOCH YEAR</u> 2010

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:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**

2. HOLD NW DUCKA, RT, 127.58 INBOUND, 3900 FT. IN LIEU OF PT (IAF), MAX 4600.

3. **FAC:** 127.58 **FAF:** DOLLA INT **DIST FAF TO MAP:** 8.33 **DIST FAF TO THLD:** 8.33

4. **MIN ALT:** DUCKA INT/UBG 29.00 DME 3900, COUVE INT/UBG 21.94 DME 3300, DOLLA INT 2900, JIKIM INT 1660*

5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 880

6. **MIN GS INCPT:** 2900 **GS ALT AT FAF :** DOLLA INT 2900 **OM:** **MM:** **IM:**

7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 47.9

8. **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			



CHANGES - REASONS

1. COUVE TO DOLLA DISTANCE CHANGED FROM 3.22 TO 3.23. - TCH CHANGED FROM "43.5" TO DESIGN TCH OF "47.9"
2. DUCKA HOLD IN LIEU ALTITUDE CHANGED FROM 3700 FT TO 3900 FT. - APPLICATION OF PRECIPITOUS TERRAIN ADJUSTMENT.
3. ADDED CHART NOTE: CIRCLING TO RWY 13L, 31R NA AT NIGHT - 20:1 PENETRATORS.
4. ALL COURSES FROM THE IAF INBOUND CHANGED FROM 127.57 TO 127.58 - COURSE CHANGED DUE TO RELOCATION OF FAF TO MEET NEW DESIGN TCH.
5. ADDED CLIMB-IN-HOLD TO THE PRIMARY AND ALTERNATE MISSED PROCEDURES - CLIMB-IN-HOLD REQUIRED.
- DIST FAF TO MAP AND FAF TO THLD CHANGED FROM 8.34 TO 8.33 - CHANGED DUE TO RELOCATION OF FAF TO MEET NEW DESIGN TCH.
6. TCH CHANGED FROM 43.5 TO 47.9 - NEW DESIGN TCH.
7. ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE JIKIM FIX MINIMUMS CAT C/D VISIBILITY TO 1 3/8 SM - UPDATED EVALUATION, NEW INOP TABLES.
8. DELETED VGSI NON-COINCIDENTAL NOTE - VGSI COINCIDENTAL.
9. CHANGED INOPERATIVE TABLE DOES NOT APPLY NOTE FROM CATS A AND B TO ALL CATS - NEW INOP TABLE.
10. REMOVED BACKUP ALTIMETER AND ASSOCIATED NOTES - MOVED TO -9 AS A CONTINGENCY NOTE.
11. DELETED "CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA, NA WHEN USING PORTLAND INTL ALTIMETER SETTING" - ILS FACILITY HAS RESTRICTIONS. RVR 1800 MUST BE APPROVED BY AFS-400.

01/22/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/24/2019.

1. CHANGED TERMINAL ROUTE DAFFI/UBG 29.00 DME FROM CW TO CCW.

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA

OTHER: ZSE ARTCC, PDX APP CON, HIO TOWER

FLIGHT CHECKED BY	MARLON J ROBINSON	OFFICE	DATE	
SCOTT THOMPSON	Jan 27, 2020	FICO	11/22/2019	
DEVELOPED BY	AUSTIN GOTCHER	OFFICE	DATE	
AUSTIN GOTCHER	Jan 22, 2020	AJV-A422	07/24/2019	
APPROVED BY	MARLON ROBINSON	OFFICE	DATE	TITLE
	MARLON J ROBINSON	AJV-A420		MANAGER
	Jan 27, 2020			

