

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES								MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		ILS: DA LOC: 8.34 MILES AFTER DOLLA INT CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT UBG VOR/DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 120 AND BTG VORTAC R-175 TO CANBY/BTG 27.24 DME AND HOLD. (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD S, RT, 003.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S CANBY/BTG 27.24 DME, RT, 354.63 INBOUND. FAS OBST: 429 AAO 453651N/1230053W 639 AAO 453800N/1230123W. 1415 AAO 424023N/1230550W CHART IN PLANVIEW: USE OF BTG R-256 AND UBG R-318 MAY BE NECESSARY TO LOCATE DUCKA INTERSECTION. CHART UBG R-334 AT DAFFI. CHART IN PLANVIEW: CANBY/BTG 27.24 DME. CHART CIRCLING ICON.							
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 LR-322)		3700									
DUCKA INT/UBG 29.00 DME (IF/IAF)		COUVE INT/UBG 21.94 DME		127.57 / 7.41 (I-HIO)		3300									
COUVE INT/UBG 21.94 DME		DOLLA INT		127.57 / 3.22 (I-HIO)		2900									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW DUCKA, RT, 127.57 INBOUND, 3700 FT. IN LIEU OF PT (IAF) 3. FAC: <u>127.57</u> FAF: <u>DOLLA INT</u> DIST FAF TO MAP: <u>8.34</u> THLD: <u>8.34</u> 4. MIN. ALT: <u>DUCKA 3700, COUVE 3300, DOLLA 2900, JIKIM INT 1660*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 880 6. MIN GS INCPT: <u>2900</u> GS ALT AT: <u>DOLLA 2900</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>43.5</u> 8. MSA FROM: PND NDB 030-180 3500, 180-280 5000, 280-030 4400								MAG VAR: 16E EPOCH YEAR: 2010							
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @			
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/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			
NOTES: CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} / TCH {FEET}). *1720 WHEN USING PORTLAND INTL ALTIMETER SETTING. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC 13R CATS A AND B. CHART NOTE: FOR INOPERATIVE MALSR WHEN USING PORTLAND INTL ALTIMETER SETTING, INCREASE S-ILS 13R (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 208 TDZE: 203		FACILITY IDENTIFIER: I-HIO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: ILS OR LOC RWY 12					
PORTLAND, OR		AIRPORT NAME: PORTLAND-HILLSBORO				ILS OR LOC RWY 13R, AMDT 10 30 APRIL 2015				AMDT: 9					
										DATED 06/03/2010					



ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):
ALL CATS VISIBILITY TO RVR 4500.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORTLAND INTL ALTIMETER SETTING AND INCREASE ALL DA/MDA 60 FEET, INCREASE JIKIM FIX MINIMUMS S-LOC 13R CATS C AND D VISIBILITY TO 1 3/8 MILE.



CITY AND STATE PORTLAND, OR	ELEVATION: 208 TDZE: 203 AIRPORT NAME: PORTLAND-HILLSBORO	FACILITY IDENTIFIER: I-HIO	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 13R, AMDT 10 30 APRIL 2015	SUP: ILS OR LOC RWY 12
				AMDT: 9
				DATED: 06/03/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, 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 in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BTG	BTG	010		IF		FB					
	BTG	DUCKA	020		TF		FO				AA 04500	
	BTG	DUCKA	030	IAF	HF	R	FO		127.6 ()	T01.0	AA 03700	
	BTG	COUVE	040		CF		FB		127.6 ()	007.4	AA 03300	
	DAFFI	DAFFI	010	IAF	IF		FB					
	DAFFI	DUCKA	020		AF	L	FB		334.0 ()		AA 03700	
	DAFFI	COUVE	030		CF		FB		127.6 ()	007.4	AA 03300	
	UBG	UBG	010		IF		FB					
	UBG	DUCKA	020		TF		FO				AA 04500	
	UBG	DUCKA	030	IAF	HF	R	FO		127.6 ()	T01.0	AA 03700	
	UBG	COUVE	040		CF		FB		127.6 ()	007.4	AA 03300	
		COUVE	010	FACF	IF		FB				AA 03300	GI 02900
		DOLLA	020	FAF	CF		FB		128.0 ()	003.2	GI 02900	GS 02900
		RW13R	030	MAP	CF		FO		128.0 ()	008.3	AT 00244	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		127.6 ()		AA 01000	
		UBG	050		DF		FO				AA 03000	
		UBG	060		HM	R	FO		003.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		BTG	N454452.12		W1223529.53		N4544.869		W12235.492			
		UBG	N452111.62		W1225841.37		N4521.194		W12258.690			
		PND	N453748.96		W1230244.93		N4537.816		W12302.749			
		DAFFI	N455004.58		W1230218.26		N4550.076		W12302.304			
		COUVE	N454215.95		W1230721.78		N4542.266		W12307.363			
		DOLLA	N453940.98		W1230437.99		N4539.683		W12304.633			
		DUCKA	N454812.75		W1231340.09		N4548.213		W12313.668			
		RW13R	N453258.59		W1225734.21		N4532.977		W12257.570			
		IHIO (LOC)	N453158.18		W1225630.80		N4531.970		W12256.513			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW13R	00200		44							
CITY AND STATE		ELEVATION: 208		TDZE: 203		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP: ILS OR LOC RWY 12	
PORTLAND, OR		AIRPORT NAME:		PORTLAND-HILLSBORO		I-HIO		ILS OR LOC RWY 13R, AMDT 10			AMDT: 9	
								30 APRIL 2015			DATED: 06/03/2010	

QUALITY
15
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, 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 in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BTG	BTG	010		IF		FB					
	BTG	DUCKA	020		TF		FO				AA 04500	
	BTG	DUCKA	030	IAF	HF	R	FO		127.6 ()	T01.0	AA 03700	
	BTG	COUVE	040		CF		FB		127.6 ()	007.4	AA 03300	
	DAFFI	DAFFI	010	IAF	IF		FB					
	DAFFI	DUCKA	020		AF	L	FB		334.0 ()		AA 03700	
	DAFFI	COUVE	030		CF		FB		127.6 ()	007.4	AA 03300	
	UBG	UBG	010		IF		FB					
	UBG	DUCKA	020		TF		FO				AA 04500	
	UBG	DUCKA	030	IAF	HF	R	FO		127.6 ()	T01.0	AA 03700	
	UBG	COUVE	040		CF		FB		127.6 ()	007.4	AA 03300	
		COUVE	010	FACF	IF		FB				AA 03300	
		DOLLA	020	FAF	CF		FB		128.0 ()	003.2	AA 02900	
		JIKIM	021	SDF	CF		FB		128.0 ()	003.8	AA 01660	
		RW13R	030	MAP	CF		FO		128.0 ()	004.5	AT 00244	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		127.6 ()		AA 01000	
		UBG	050		DF		FO				AA 03000	
		UBG	060		HM	R	FO		003.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		BTG	N454452.12		W1223529.53		N4544.869		W12235.492			
		UBG	N452111.62		W1225841.37		N4521.194		W12258.690			
		PND	N453748.96		W1230244.93		N4537.816		W12302.749			
		DAFFI	N455004.58		W1230218.26		N4550.076		W12302.304			
		COUVE	N454215.95		W1230721.78		N4542.266		W12307.363			
		DOLLA	N453940.98		W1230437.99		N4539.683		W12304.633			
		DUCKA	N454812.75		W1231340.09		N4548.213		W12313.668			
		JIKIM	N453635.72		W1230122.62		N4536.595		W12301.377			
		RW13R	N453258.59		W1225734.21		N4532.977		W12257.570			
		IHIO (LOC)	N453158.18		W1225630.80		N4531.970		W12256.513			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW13R	00200		44							
CITY AND STATE		ELEVATION: 208		TDZE: 203		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:		SUP: ILS OR LOC RWY 12		
PORTLAND, OR		AIRPORT NAME:		PORTLAND-HILLSBORO		I-HIO		ILS OR LOC RWY 13R, AMDT 10		AMDT: 9		
								30 APRIL 2015		DATED: 06/03/2010		

