

**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 ID</u> KONT	<u>PROCEDURE NAME</u> ILS OR LOC RWY 26L ILS RWY 26L (CAT II), ILS RWY 26L (CAT III)	<u>ORIGINAL/AMENDMENT</u> 9	<u>CITY</u> ONTARIO	<u>STATE</u> CA		
<u>AIRPORT ELEVATION</u> 944	<u>TDZE</u> 26L 926 26R 932	<u>SUPERSEDED</u> ILS OR LOC RWY 26L ILS RWY 26L (CAT II), ILS RWY 26L (CAT III)	<u>ORIGINAL/AMENDMENT</u> 8C	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-TWO	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 AUGUST 2023	<u>REQUIRED EFFECTIVE DATE</u> 08/10/2023	<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>
PDZ VORTAC	IAF	HIGRO INT/11.10 DME					045.99	11.13	5000
HIGRO INT/11.10 DME		SB NDB INT/I-TWO 12.61 DME					317.77	3.28 (HDF R-318)	4300
SB NDB INT/I-TWO 12.61 DME	IAF	YUCUC INT/I-TWO 10.26 DME					253.69	2.35	3400
TAKOE	IAF	YUCUC INT/I-TWO 10.26 DME		TF	FB	1.00	255.77	2.43	3400
YUCUC INT/I-TWO 10.26 DME	IF	MUNNS INT/I-TWO 8.15 DME					257.99	2.11 (I-TWO)	3000

MISSED APPROACH

MAP:

ILS: DA
LOC: 6.33 NM AFTER MUNNS INT/I-TWO 8.15 DME OR AT I-TWO 1.82 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2800 THEN CLIMBING LEFT TURN TO 5400 DIRECT PDZ VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT YUCUC					
3. FAC:	257.99	FAF: MUNNS INT/I-TWO 8.15 DME	DIST FAF TO MAP: 6.33	DIST FAF TO THLD: 6.33	
4. MIN ALT:	YUCUC INT/I-TWO 10.26 DME 3400, MUNNS INT/I-TWO 8.15 DME 3000, BAKES/I-TWO 4.12 DME 1700				
5. DIST TO THLD FROM OM:	MM:	IM: 786	100 HAT: 801	150 HAT:	GS ANT: 1163
6. MIN GS INCPT:	3000	GS ALT AT PFAF :	MUNNS INT/I-TWO 8.15 DME 3000	OM:	MM: IM: 1025
7. GS ANGLE:	3.00	34:1:	20:1:	TCH: 57.8	
8. MSA FROM:	PDZ VORTAC 020-110 8900, 110-290 6900, 290-020 11300				

PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM TAKOE.

NOTES:

CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 26L: CAT A, B, C, D, RA 103, RVR 1200, HAT 100, DA 1026 MSL.
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 26L: CAT A, B, C, D, RVR 600.
CHART NOTE: CIRCLING NA N OF RWY 8L-26R.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PDZ VORTAC AIRWAY RADIALS 012 CW 078.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 26L CAT C AND D VISIBILITY TO 2 1/2 SM.
CHART SPEED ICON IN PLANVIEW AT TAKOE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT YUCUC: MAX 180 KIAS.

ADDITIONAL FLIGHT DATA:

CHART 1187 T-L TOWER 340326N/1173137W
CHART AT OR ABOVE 4300 AT TAKOE
1980 AAO 340221N/1172711W
2380 AAO 340205N/1172637W.
CHART MANDATORY 7000 AT PDZ VORTAC.
CHART MANDATORY 3400 AT YUCUC INT/I-TWO 10.26 DME
HOLD E, RT, 258.00 INBOUND.
CHART FAS OBST: 1060 AMUSEMENT_PARK_STRUCTURE (06-232288) 340309N/1173256W.
CHART VDP AT 2.83 DME.
DISTANCE VDP TO THLD 1.00 NM.
CHART CIRCLING ICON.



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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT C, D 800-2 1/2

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 26L	1126	1800	200	1126	1800	200	1126	1800	200	1126	1800	200			
S-LOC 26L	1700	2400	774	1700	4000	774	1700	1 3/4	774	1700	1 3/4	774			
SIDESTEP 26R	1700	5500	768	1700	5500	768	1700	1 3/4	768	1700	2	768			
CIRCLING	1700	1	756	1700	1 1/4	756	1700	2 1/2	756	1700	2 1/2	756			
BAKES FIX MINIMUMS (DME REQUIRED)															
S-LOC 26L	1320	2400	394	1320	2400	394	1320	3500	394	1320	3500	394			

CHANGES - REASONS

1. TERMINAL ROUTES - SB NDB TO YUCUC AND TAKOE TO YUCUC ALTITUDE CHANGED FROM 3600 TO 3400 - ADJUSTED DESCENT GRADIENT DUE TO FAF ALTITUDE CHANGING
2. TERMINAL ROUTES - YUCUC TO TESRE CHANGED TO YUCUC TO MUNNS, DME DISTANCE CHANGED FROM 7.84 TO 8.15 AND DISTANCE/ALT CHANGED FROM 2.42/2900 TO 2.11/3000 - FAF RELOCATED BASED ON GPA/TCH CALCULATION RESULTING IN THE CREATION OF MUNNS FIX TO REPLACE TESRE
3. MISSED APPROACH MAP CHANGED FROM "LOC: 6.02 NM AFTER TESRE INT/I-TWO 7.84 DME OR AT I-TWO 1.82 DME" TO "LOC: 6.33 NM AFTER MUNNS INT/I-TWO 8.15 DME OR AT I-TWO 1.82 DME" - FAF RELOCATED BASED ON GPA/TCH CALCULATION
4. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 4000 DIRECT PDZ VORTAC AND HOLD" TO "CLIMB TO 2800 THEN CLIMBING LEFT TURN TO 5400 DIRECT PDZ VORTAC AND HOLD, CONTINUE CLIMB IN HOLD TO 5400" - NEW OBSTACLES IN THE MISSED SECTION
5. PROFILE LINE 3 - DATA CHANGED FROM "FAF: TESRE INT/I-TWO 7.84 DME, DIST FAF TO MAP: 6.02, DIST FAF TO THLD: 6.02" TO "FAF: MUNNS INT/I-TWO 8.15 DME, DIST FAF TO MAP: 6.33, DIST FAF TO THLD: 6.33" - FAF RELOCATED BASED ON GPA/TCH CALCULATION
6. PROFILE LINE 4 - DATA CHANGED FROM "MIN ALT: YUCUC INT/I-TWO 10.26 DME 3600, TESRE INT/I-TWO 7.84 DME 2900, BAKES/4.12 DME 1720*" TO "MIN ALT: YUCUC INT/I-TWO 10.26 DME 3400, MUNNS INT/I-TWO 8.15 DME 3000, BAKES/I-TWO 4.12 DME 1700" - FAF RELOCATED BASED ON GPA/TCH CALCULATION AND * NO LONGER REQUIRED.
7. PROFILE LINE 5 - GS ANT CHANGED FROM 1160 TO 1163 - UPDATED AIRNAV DATA
8. PROFILE LINE 6 - DATA CHANGED FROM "MIN GS INCPT: 2900, GS ALT AT PFAF : TESRE INT/I-TWO 7.84 DME 2900, IM: 1023" TO "MIN GS INCPT: 3000 GS ALT AT PFAF : MUNNS INT/I-TWO 8.15 DME 3000, IM:1025" - FAF RELOCATED BASED ON GPA/TCH CALCULATION
9. PROFILE LINE 8 CHANGED FROM "MSA FROM: PDZ VORTAC 020-110 9000, 110-290 7000, 290-020 11300" TO "MSA FROM: PDZ VORTAC 020-110 8900, 110-290 6900, 290-020 11300" - NEW TARGETS EVALUATION
10. ADDED PBN REQUIREMENTS NOTE "RNP APCH-GPS. FROM TAKOE." - IAW 8260.19I, PARA 8-6-8.C
11. REMOVED CHART PLANVIEW NOTE "RNAV 1-GPS REQUIRED" - IAW 8260.19I, PARA 8-6-8.C
12. REMOVED NOTE "INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP 26R CAT A." - UPDATED VISCHECK RESULTS
13. CHANGED INOP ALS NOTES FROM "FOR INOPERATIVE ALS, INCREASE S-LOC 26L CAT C/D AND SIDESTEP 26R CAT C VISIBILITY TO 2 1/2 SM, AND SIDESTEP 26R CAT B TO 1 1/4 SM, AND BAKES DME MINIMUMS S-LOC 26L CAT C/D TO RVR 6000" TO "FOR INOPERATIVE ALS, INCREASE S-LOC 26L CAT C AND D VISIBILITY TO 2 ½ SM" - UPDATED VISCHECK RESULTS
14. ADDITIONAL FLIGHT DATA - REMOVED FAS OBST 2000 AAO 340220N/1172711W - NEW TARGETS EVALUATION
15. ADDITIONAL FLIGHT DATA - CHANGED CHARTED FAS OBST FROM 1059 TREE 340332N/1173329W TO 1060 AMUSEMENT_PARK_STRUCTURE (06-232288) 340309N/1173256W - NEW TARGETS EVALUATION
16. ADDITIONAL FLIGHT DATA - CHANGED VDP DATA FROM "2.89 DME*/1.06 TO THLD" TO "2.83 DME/1.00 TO THLD" - LOWERED BAKES S-LOC MDA AND * NO LONGER REQUIRED.
17. TERMINAL ROUTES - HIGRO INT CHANGED TO HIGRO INT/11.10 DME - DME ADDED TO PROVIDE MORE ASSISTANCE TO PILOTS.
18. S-LOC 26L MDA/HAT MINS, ALL CATS, CHANGED FROM 1720/794 TO 1700/774 - NEW TARGETS EVALUATION
19. SIDESTEP 26R MDA/HAT MINS, ALL CATS, CHANGED FROM 1720/788 TO 1700/768 - NEW TARGETS EVALUATION
20. HIGRO TO PETIS COURSE CHANGED FROM 317.78 TO 317.77 - UPDATED DATA FROM NEW TARGETS BUILD
21. BAKES DME MINIMUMS S-LOC 26L MDA/HAT, ALL CATS, CHANGED FROM 1340/414 TO 1320/394 - NEW TARGETS EVALUATION
22. CIRCLING MDA/HAA, ALL CATS, CHANGED FROM 1720/776 TO 1700/756 - NEW TARGETS EVALUATION
23. HIGRO FIX DESCRIPTION CHANGED TO ADD DME - DME ADDED TO PROVIDE MORE ASSISTANCE TO PILOTS.
24. PETIS NDB FIX DESCRIPTION UPDATED - UPDATED TO REFLECT CURRENT DATA
25. PETIS TO YUCUC COURSE CHANGED FROM 257.69 TO 253.69 - UPDATED DATA FROM NEW TARGETS BUILD
26. NOTES - CHANGED CHART NOTE FROM "CIRCLING NA NORTH OF RWY 8L-26R" TO "CIRCLING NA N OF RWY 8L-26R" - IAW 8260.19I, PARA 8-6-11O.(5).(A)
27. NOTES - ADDED CHART SPEED ICON IN PLANVIEW AT TAKOE/MAX KIAS 210 AND YUCUC MAX 180 KIAS - IAW 8260.19I 4-6-10.G
28. NOTES - REMOVED THE "S" IN THE NOTE "PROCEDURE NA FOR ARRIVALS ON PDZ VORTAC AIRWAY RADIALS 012 CW 078" - IAW 8260.19I, PARA 8-2-5.G
29. ADDITIONAL FLIGHT DATA - ADDED 7:1 OBS'S 2380 AAO & 1980 AAO - UPDATED TARGETS EVALUATION
30. ADDITIONAL FLIGHT DATA -REMOVED *LOC ONLY - NO LONGER REQUIRED
31. ADDITIONAL FLIGHT DATA - ADDED CHART MANDATORY ALTITUDE AT PDZ AND YUCUC - REQUESTED BY ATC
32. BAKES DME MINIMUMS CHANGED TO BAKES FIX MINIMUMS (DME REQUIRED) - IAW 8260.19I PARA 8-6-11.N.(3).(F)
33. ADDITIONAL FLIGHT DATA - 1187 T-L TOWER LAT CHANGED FROM 340325N TO 340326N - REVISED OBSTACLE DATA
34. BAKES FIX MINS S-LOC 26L CAT C/D VIS CHANGED FROM RVR 4000 TO RVR 3500 - LOWERED MDA

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZLA, SOCAL TRACON, ONT ATCT, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
CASIMIR L TABAKA

Jun 12, 2023

OFFICE

DATE

DEVELOPED BY
JOSEPH BLANCO

Digitally signed by
JOSEPH A BLANCO

Jun 06, 2023

OFFICE
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DATE
03/21/2023

APPROVED BY
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Jun 12, 2023

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TITLE
MANAGER

