

**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> OAK	<u>PROCEDURE NAME</u> ILS OR LOC RWY 30 ILS RWY 30 (SA CAT I) ILS RWY 30 (CAT II) ILS RWY 30 (CAT III)			<u>ORIGINAL/AMENDMENT</u> 32	<u>CITY</u> OAKLAND	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 9	<u>TDZE</u> 9	<u>SUPERSEDED</u> ILS OR LOC RWY 30 ILS RWY 30 (SA CAT I) ILS RWY 30 (CAT II) ILS RWY 30 (CAT III)	<u>ORIGINAL/AMENDMENT</u> 31	<u>DATED</u> 12/07/2017	<u>MAG VAR</u> 14E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-INB	<u>COORDINATES OF FACILITIES</u>		<u>ACTUAL EFFECTIVE DATE</u> 12 JUNE 2025	<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>
FFIST	IAF	PRFCT		TF	FB	1.00	251.21	6.28	6000
MYSHN	IAF	MYCAF		TF	FB	1.00	264.42	6.01	5000
MYCAF		FRNNY		TF	FB	1.00	264.35	4.82	4400
FRNNY		WUVON/I-INB 10.50 DME/RADAR		TF	FB	1.00	296.11	5.11	2700
PRFCT		PARBB		TF	FB	1.00	256.47	6.05	4500
PARBB		ZOLUM		TF	FB	1.00	254.16	3.54	3500
ZOLUM		WUVON/I-INB 10.50 DME/RADAR		TF	FB	1.00	264.04	3.00	2700
WUVON/I-INB 10.50 DME/RADAR	IF	MITOE/I-INB 8.29 DME/RADAR					296.01 (I-INB)	2.21	2000

MISSED APPROACH

MAP:

ILS: DA
LOC: 6.08 NM AFTER MITOE/I-INB 8.29 DME/RADAR OR AT I-INB 2.21 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 260 AND ON SAU VOR/DME R-110 TO SAU VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 4000 THEN RIGHT TURN DIRECT OAK VOR/DME AND HOLD NW, RT, 120.00 INBOUND.

QUALITY
37
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)				
2.	PROFILE STARTS AT WUVON/I-INB 10.50 DME/RADAR									
3.	FAC:	296.01	FAF:	MITOE/I-INB 8.29 DME/RADAR	DIST FAF TO MAP:	6.08	DIST FAF TO THLD:	6.08		
4.	MIN ALT:	WUVON/I-INB 10.50 DME/RADAR 2700, MITOE/I-INB 8.29 DME/RADAR 2000								
5.	DIST TO THLD FROM OM:		MM:		IM:		100 HAT:	858.00	150 HAT:	1811
6.	MIN GS INCPT:	2000	GS ALT AT PFAF:	MITOE/I-INB 8.29 DME/RADAR 2000			OM:		GS ANT:	1051
7.	GS ANGLE:	3.00	34:1:		20:1:		TCH:	55.0	IM:	
8.	MSA FROM:	OAK VOR/DME 170-350 3800, 350-170 5100								

PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM FFIST OR MYSHN.

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30: CAT A, B, C, D, RA 150, RVR 1400, HAT 150, DA 159 MSL
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30: CAT A, B, C, D, RA 100, RVR 1200, HAT 100, DA 109 MSL
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30: CAT A, B, C, D, RVR 600
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
CAT II/III AND SA CAT I CHART NOTE: MISSED APPROACH REQUIRES MINIMUM CLIMB OF 213 FT PER NM TO 1540, IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS OR LOC RWY 30.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC-30 CAT C AND D VISIBILITY TO 1 3/8 SM.
CHART SPEED ICON IN PLANVIEW AT FFIST: MAX 200 KIAS.
CHART SPEED ICON IN PLANVIEW AT WUVON: MAX 200 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 215.21 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW OAK VOR/DME, RT, 120.00 INBOUND.
CHART FAS OBST: 238 POLE (06-306363) 373758N/1220751W.
CHART VDP AT 3.53 DME.
DISTANCE VDP TO THLD 1.32 NM.
CHART IN PLANVIEW: OAK VOR/DME.
CHART AT OR BELOW 9000 AND AT OR ABOVE 7000 AT FFIST.
CHART AT OR ABOVE 6200 AT MYSHN.
CHART MANDATORY 4500 AT PARBB.
CHART CIRCLING ICON.



MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT
ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 1400-3

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 30	209	1800	200	209	1800	200	209	1800	200	209	1800	200			
S-LOC 30	500	2400	491	500	2400	491	500	5000	491	500	5000	491			
CIRCLING	560	1	551	560	1	551	660	1 3/4	651	1400	3	1391			

CHANGES - REASONS

1. ADDED RNAV INITIAL SEGMENTS FFIST-PRFCT-PARBB AND MYSHN-MYCAF-FRNNY WITH ALL ASSOCIATED DATA - SEGMENTS ADDED TO CONNECT TO UPDATED EMZOH AND OAKES STARS.
2. UPDATED ALL INSTANCES OF DME DISTANCE FOR IF WUVON FROM 10.46 TO 10.50, PFAF MITOE FROM 8.25 TO 8.29 AND MAP FROM 2.17 TO 2.21 - I-INB DME ANTENNA RELOCATED IN 2017.
3. PROFILE LINE 5: CHANGED DIST FROM THLD 100 HAT FROM 859 TO 858 AND 150 HAT FROM 1813 TO 1811 - NEW TARGETS BUILD PROVIDED SLIGHT ADJUSTMENT.
4. MOVED 'DME OR RADAR REQUIRED' FROM NOTES TO EQUIPMENT REQUIREMENT NOTES - PER 8260.19J PARA. 8-6-9.
5. CHANGED PLANVIEW NOTE 'RNAV 1-GPS OR RADAR REQUIRED' TO 'RNP APCH - GPS. FROM FFIST OR MYSHN.' AND MOVED TO PBN REQUIREMENTS NOTES - PER 8260.19J PARA. 8-6-8D(5)(A)1.
6. ADDED NOTE 'FOR INOPERATIVE ALS, INCREASE S-LOC-30 CAT C AND D VISIBILITY TO 1 3/8 SM' - PER 8260.3F TABLE 3-3-1 AND INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE.
7. ILS SA CAT I AND ILS CAT II/III: CHANGED NOTE 'MISSED APPROACH REQUIRES MINIMUM CLIMB OF 240 FEET PER NM TO 2700, IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS OR LOC RWY 30' TO 'MISSED APPROACH REQUIRES MINIMUM CLIMB OF 213 FEET PER NM TO 1540, IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS OR LOC RWY 30' - NEW TARGETS BUILD ALLOWED FOR LOWERING CLIMB GRADIENT REQUIREMENT AND CLIMB GRADIENT TERMINATION ALTITUDE.
8. CHANGED NOTE 'SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH' TO 'SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL - PER 8260.19J PARA. 8-6-12M(1).
9. CHANGED FAS OBST FROM FAS OBST: 239 AAO 373904N/1220700W TO 238 POLE (06-306363) 373758N/1220751W - PREVIOUS AAO LOCATED IN KHWD AAO EXEMPT AREA.
10. REMOVED 7:1 EXCLUDED OBSTRUCTION 254 AAO 373836.44N/1220605.79W - NO BENEFIT PROVIDED.
11. RELOCATED VDP FROM DIST TO THLD 1.31 TO 1.32 AND FROM I-INB 3.48 DME TO I-INB 3.53 DME - SLIGHT ADJUSTMENT FROM NEW TARGETS BUILD AND I-INB DME ANTENNA RELOCATED IN 2017.
12. REMOVED PROFILE NOTE '*LOC ONLY' AND ASSOCIATED ASTERISK FROM VDP AT I-INB 3.48 DME - NO LONGER REQUIRED BY CRITERIA.
13. ADDED MAX 200 KIAS SPEED RESTRICTION AT IF WUVON/I-INB 10.46 DME/RADAR - REQUESTED TO ATC/FPT TO ACCOMMODATE SHORT INTERMEDIATE SEGMENT.
14. REMOVED ILS ALTERNATE MINIMUMS CAT C 700-2, CAT D 1400-3 - NO LONGER APPLY.

01/23/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/18/24.
1. CHANGED NOTE 'CHART SPEED ICON IN PLANVIEW AT FFIST: MAX 210 KIAS' TO 'CHART SPEED ICON IN PLANVIEW AT FFIST: MAX 200 KIAS' - REQUESTED BY ATC/FPT.



