

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							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: 4.53 NM AFTER CUVSA/OAK 5.39 DME OR AT OAK VOR/DME 0.90 DME FIX CLIMB TO 1900 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 340.00 AND SGD VORTAC R-165 TO REBAS/SGD 14.31 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA (DO NOT CHART): CLIMB TO 4000 DIRECT SAU VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD S, RT, 345.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE SAU VOR/DME, RT, 215.21 INBOUND. CHART FAS OBST: 174 ANT 374213N/1220826W CHART IN PLANVIEW: SAU VOR/DME. CHART CIRCLING ICON. CHART MANDATORY 5000 AT BBUBB CHART MANDATORY 5300 AT CYMBL CHART 541 TREE 374215N/1220608W.									
BBUBB (IAF)				NAGVY (FB)				230.50 / 4.87				4200											
CYMBL (IAF)				NAGVY (FB)				299.10 / 5.69				4200											
NAGVY/OAK VOR/DME 14.96 DME (IF)				GROVE/OAK VOR/DME 11.86 DME				278.18 / 3.10 (I-OAK)				3400											
GROVE/OAK VOR/DME 11.86 DME				URZAF/OAK VOR/DME 9.55 DME				278.18 / 2.31 (I-OAK)				2700											
URZAF/OAK VOR/DME 9.55 DME				NIXDE/OAK VOR/DME 7.54 DME				278.18 / 2.01 (I-OAK)				2100											
NIXDE/OAK VOR/DME 7.54 DME				CUVSA/OAK VOR/DME 5.39 DME				278.18 / 2.15 (I-OAK)				1500											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 14E EPOCH YEAR: 2015									
2. PROFILE STARTS AT NAGVY/OAK VOR/DME 14.96 DME																							
3. FAC: 278.18 FAF: CUVSA/OAK VOR/DME 5.39 DME DIST FAF TO MAP: _____ THLD: 4.53																							
4. MIN. ALT: NAGVY 4200, GROVE 3400, URZAF 2700, NIXDE 2100, CUVSA 1500																							
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: 991																							
6. MIN GS INCPT: 1500 GS ALT AT: CUVSA 1500 OM: _____ MM: _____ IM: _____																							
7. GS ANGLE: 3.00 TCH: 52.8																							
8. MSA FROM: OAK VOR/DME 170-350 3800, 350-170 5100																							
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 28R**	207	2400	200	207	2400	200	207	2400	200	207	2400	200											
S-LOC 28R	440	2400	433	440	2400	433	440	2400	433	440	2400	433											
SIDESTEP 28L	440	5500	431	440	5500	431	440	1 1/2	431	440	1 1/2	431											
CIRCLING	560	1	551	560	1	551	660	1 3/4	651	1400	3	1391											
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: DME REQUIRED. CHART NOTE: DME FROM OAK VOR/DME. SIMULTANEOUS RECEPTION OF I-OAK AND OAK DME REQUIRED. CHART PLANVIEW NOTE: GPS OR RADAR REQUIRED.																							
CITY AND STATE OAKLAND, CA				ELEVATION: 9 AIRPORT NAME: METROPOLITAN OAKLAND INTL			TDZE: 28R 7 TDZE: 28L 9			FACILITY IDENTIFIER: I-OAK			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 28R, AMDT 37A 13 OCTOBER 2016				SUP: AMDT: 37 DATED 12/10/2015						

