

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.	
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION			
TERMINAL ROUTES			
FROM	TO	COURSE AND DISTANCE	ALTITUDE
SUNOL/OAK VORTAC 20.97 DME (IAF)	NAGVY/OAK VORTAC 14.96 DME	236.00 / 0.77 (HDG) & 278.18 / 5.43 (I-OAK)	4200
NAGVY/OAK VORTAC 14.96 DME (IF)	GROVE/OAK VORTAC 11.86 DME	278.18 / 3.10 (I-OAK)	3400
GROVE/OAK VORTAC 11.86 DME	URZAF/OAK VORTAC 9.55 DME	278.18 / 2.31 (I-OAK)	2700
URZAF/OAK VORTAC 9.55 DME	NIXDE/OAK VORTAC 7.54 DME	278.18 / 2.01 (I-OAK)	2100
NIXDE/OAK VORTAC 7.54 DME	CUVSA/OAK VORTAC 5.53 DME	278.18 / 2.01 (I-OAK)	1500
		ILS: DA LOC: 4.67 MILES AFTER CUVSA/OAK VORTAC 5.53 DME OR AT OAK VORTAC 0.90 DME FIX CLIMB TO 1900 THEN CLIMBING RIGHT TURN TO 3000 TO INTERCEPT SGD R-165 TO REBAS/SGD 14.31 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 4000 DIRECT SAU VORTAC 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 VORTAC, RT, 215.21 INBOUND. CHART FAS OBST: 174 ANT 374213N/1220826W CHART: 540 TREE 374205N/1220803W CHART PLANVIEW NOTE: DME REQUIRED. CHART (CFFKR) AT INTERSECTION OF SUNOL DR LEG AND INTERMEDIATE COURSE. CHART IN PLANVIEW: SAU VORTAC. CHART CIRCLING ICON.	
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. PROFILE STARTS AT NAGVY/OAK VORTAC 14.96 DME 3. FAC: 278.18 FAF: CUVSA/OAK VORTAC 5.53 DME DIST FAF TO MAP: THLD: 4.67 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: 990 6. MIN GS INCPT: 1500 GS ALT AT: CUVSA 1500 OM: - MM: - IM: - 7. GS ANGLE: 2.90 TCH: 57.0 8. MSA FROM: OAK VORTAC 170-350 3800, 350-170 5100			
		MAG VAR: 14E EPOCH YEAR: 2015	
MINIMUMS			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT		ALTERNATE: N/A ILS: STANDARD # LOC: STANDARD @	
CATEGORY ==>	A	B	C
DH/MDA	VIS	HAT/HAA	DH/MDA
S-ILS 28R**	206	2400	200
S-LOC 28R	440	2400	434
SIDESTEP 28L	440	5500	432
CIRCLING	560	1	551
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SUNOL ON V334 NORTHEAST BOUND AND ON V195-301 EASTBOUND. CHART NOTE: DME FROM OAK VORTAC. SIMULTANEOUS RECEPTION OF I-OAK AND OAK DME REQUIRED.			
CITY AND STATE OAKLAND, CA		ELEVATION: 9 THRE: 28R 6 AIRPORT NAME: THRE: 28L 8 METROPOLITAN OAKLAND INTL	
FACILITY IDENTIFIER: I-OAK		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 28R, AMDT 36, 10/17/2013	
SUP: ILS OR LOC/DME RWY 27R AMDT: 35A DATED 04/10/2008			

ILS - STANDARD

INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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QUALITY
9
CHECKED

CITY AND STATE

OAKLAND, CA

ELEVATION: 9

AIRPORT NAME:

METROPOLITAN OAKLAND INTL

THRE: 28R 6

THRE: 28L 8

FACILITY
IDENTIFIER:

I-OAK

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC/DME RWY 28R, AMDT 36, 10/17/2013

SUP: ILS OR LOC/DME
RWY 27R

AMDT: 35A

DATED: 04/10/2008

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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SUP:	ILS OR LOC/DME RWY 27R
AMDT:	35A
DATED:	04/10/2008

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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[illegible]

CITY AND STATE OAKLAND, CA	ELEVATION: 9	THRE: 28R 6	FACILITY IDENTIFIER: I-OAK	PROCEDURE NO./AMDT NO./ EFFECTIVE DATE: ILS OR LOC/DME RWY 28R, AMDT 36 10/17/2013	SUP: ILS OR LOC/DME RWY 27R
	AIRPORT NAME: METROPOLITAN OAKLAND INTL	THRE: 28L 8			AMDT: 35A
					DATED: 04/10/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	SUNOL	SUNOL	010	IAF	IF		FB					
	SUNOL	CFFKR	020		TF		FB				AA 04200	
	SUNOL	NAGVY	030		TF		FB				AA 04200	
	SUNOL	GROVE	040		TF		FB				AA 03400	
	SUNOL	URZAF	050		TF		FB				AA 02700	
	SUNOL	NIXDE	060		CF		FB		278.2 ()	002.0	AA 02100	
		NIXDE	010	FACF	IF		FB				AA 02100	GI 01500
		CUVSA	020	FAF	CF		FB		278.0 ()	002.0	GI 01500	GS 01500
		RW28R	030	MAP	CF		FO		278.0 ()	004.7	AT 00063	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		278.2 ()		AA 01900	
	REBAS	050		CF		FO		345.0 ()	013.0	AA 03000	
	REBAS	060		HM	R	FO		345.0 ()	011.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OAK	N374333.32	W1221324.91	N3743.555	W12213.415
	SGD	N381045.70	W1222223.35	N3810.762	W12222.389
	CFFKR	N373604.14	W1214931.45	N3736.069	W12149.524
	CUVSA	N374143.32	W1220650.09	N3741.722	W12206.835
	GROVE	N373919.17	W1215927.32	N3739.320	W12159.455
	NAGVY	N373808.42	W1215550.68	N3738.140	W12155.845
	NIXDE	N374057.58	W1220429.39	N3740.960	W12204.490
	REBAS	N375626.46	W1222301.20	N3756.441	W12223.020
	SUNOL	N373619.91	W1214837.01	N3736.332	W12148.617
	URZAF	N374011.82	W1220208.82	N3740.197	W12202.147
	RW28R	N374329.32	W1221216.93	N3743.489	W12212.282
	IOAK (LOC)	N374354.55	W1221334.86	N3743.909	W12213.581

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28R	00006	57

CITY AND STATE
OAKLAND, CAELEVATION: 9 THRE: 28R 6
AIRPORT NAME: THRE: 28L 8
METROPOLITAN OAKLAND INTLFACILITY
IDENTIFIER:
I-OAKPROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 28R, AMDT 36
10/17/2013SUP: ILS OR LOC/DME
RWY 27R

AMDT: 36A

DATED: 04/10/2008

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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SUP:	ILS OR LOC/DME RWY 27R
AMDT:	35A
DATED:	04/10/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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	1	2	3	4	5	6	7	8	9	0	1	2	3
ILS	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KOAKK2IIOAK1 010990RW28RN37435455W1221334862782N37432860W1221230621299 09900593290E01405700003												

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KOAKK2SOAK K2D 0 1703500512535017003825 M												

CITY AND STATE
OAKLAND, CA

ELEVATION: 9 THRE: 28R 6
AIRPORT NAME: THRE: 28L 8
METROPOLITAN OAKLAND INTL

FACILITY
IDENTIFIER:
I-OAK

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 28R, AMDT 36
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SUP: ILS OR LOC/DME
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	SUNOL	NAGVY	030		TF		FB				AA 04200	
	SUNOL	GROVE	040		TF		FB				AA 03400	
	SUNOL	URZAF	050		TF		FB				AA 02700	
	SUNOL	NIXDE	060		CF		FB		278.2 ()	002.0	AA 02100	
		NIXDE	010	FACF	IF		FB				AA 02100	
		CUVSA	020	FAF	CF		FB		278.0 ()	002.0	AA 01500	
		RW28R	030	MAP	CF		FO		278.0 ()	004.7	AT 00063	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		278.2 ()		AA 01900	
	REBAS	050		CF		FO		345.0 ()	013.0	AA 03000	
	REBAS	060		HM	R	FO		345.0 ()	011.0	AA 03000	

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	AIRPORT NAME: METROPOLITAN OAKLAND INTL	THRE: 28L 8	I-OAK	ILS OR LOC/DME RWY 28R, AMDT 36	RWY 27R
				10/17/2013	AMD'T: 35A
					DATED: 04/10/2008