

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				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		LPV: DA LNAV/VNAV: DA LNAV: RW28L  CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 2000 DIRECT OAK VORTAC AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.00 INBOUND. CHART FAS OBST: 157 TOWER 373912N/1220601W CHART: 519 TREE 373834N/1220259W 919 AAO 373753N/1220152W DISTANCE TO THLD FROM 298 HATH: 0.80 NM. WAAS CHANNEL # 40330 REFERENCE PATH ID: W28A LTP HAE: -17.2 M						
SUNOL		JOBUS (FO)		151.70 / 6.42				5700								
SJC VOR/DME		JOBUS (FO)		031.11 / 10.95				5700								
VINCO (IAF)		JOBUS (NOPT) (FB)		323.17 / 8.06				5700								
JOBUS (IF/IAF)		OKIVY (FB)		285.06 / 3.24				4800								
OKIVY		WESCH (FB)		285.03 / 3.24				3900								
WESCH		SUDGE (FB)		284.99 / 2.52				3200								
SUDGE (FAF)		FENRA/6.20 NM TO RW28L (FB)		284.97 / 3.27												
(SEE FORM 8260-10)																
1. PT <u>      </u> SIDE OF COURSE <u>      </u> OUTBOUND <u>      </u> FT WITHIN <u>      </u> MILES OF <u>      </u> (IAF) 2. HOLD E JOBUS, RT, 285.06 INBOUND, 5700 FT. IN LIEU OF PT (IAF) 3. FAC: <u>284.97</u> FAF: <u>SUDGE</u> DIST FAF TO MAP: <u>9.47</u> THLD: <u>9.47</u> 4. MIN. ALT: JOBUS 5700, OKIVY 4800, WESCH 3900, SUDGE 3200, FENRA/6.20 NM TO RW28L 2120*, (SEE FORM 8260-10) 5. DIST TO THLD FROM OM: <u>      </u> MM: <u>      </u> IM: <u>      </u> 150 HAT: <u>      </u> 100 HAT: <u>      </u> GS ANT: <u>      </u> 6. MIN GS INCPT: <u>3200</u> GS ALT AT: <u>SUDGE 3200</u> OM: <u>      </u> MM: <u>      </u> IM: <u>      </u> 7. GS ANGLE: <u>3.10</u> TCH: <u>35.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: RW28L 5300																
MAG VAR: 15E EPOCH YEAR: 2005																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		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
LPV DA		348	1	298	348	1	298	348	1	298	348	1	298			
LNAV/VNAV DA		400	1 1/8	350	400	1 1/8	350	400	1 1/8	350	400	1 1/8	350			
LNAV MDA		460	1	410	460	1	410	460	1 1/8	410	460	1 1/8	410			
CIRCLING		540	1	488	540	1	488	540	1 1/2	488	620	2	568			
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 52 THRE: 50			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP: RNAV (GPS) Y RWY 28L			AMDT: ORIG		
HAYWARD, CA		AIRPORT NAME: HAYWARD EXECUTIVE						RNAV (GPS) RWY 28L, AMDT 1						DATED 07/05/2007		
								15 NOVEMBER 2012								

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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LINE 4, (CONT.):

BOGRE/3.90 NM TO RW28L 1360\*, HUZBY/2.80 NM TO RW28L 1000\*

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
FENRA/6.20 NM TO RW28L	BOGRE/3.90 NM TO RW28L (FB)	284.93 / 2.30	
BOGRE/3.90 NM TO RW28L	HUZBY/2.80 NM TO RW28L (FB)	284.90 / 1.10	
HUZBY/2.80 NM TO RW28L	RW28L (MAP) (FO)	284.89 / 2.80	
RW28L (MAP)	600 MSL	284.89	600
600 MSL	OAK VORTAC (FO)		2000

NOTES, (CONT.):

\*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OAKLAND ALTIMETER SETTING AND INCREASE ALL DA AND MDA 20 FT, AND INCREASE ALL LNAV/VNAV AND LNAV CATS C AND D VISIBILITY 1/8 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SJC VOR/DME ON T259, ARRIVALS AT VINCO ON V107 SOUTHEAST BOUND, AND ARRIVALS AT SUNOL ON V301 NORTHWEST BOUND.

CHART NOTE: CIRCLING NA N OF RWY 10L-28R.

CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 28L PROCEDURES NA AT NIGHT.

CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 10L-28R NA AT NIGHT.

CITY AND STATE  
HAYWARD, CA

ELEVATION: 52 THRE: 50  
AIRPORT NAME:  
HAYWARD EXECUTIVE

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 28L, AMDT 1  
15 NOVEMBER 2012

SUP: RNAV (GPS) Y RWY 28L  
AMDT: ORIG  
DATED: 07/05/2007

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHWD
RUNWAY	RW28L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	373918.6640N
LTP/FTP LONGITUDE	1220653.1315W
LTP/FTP ELLIPSOIDAL HEIGHT	-00172
FPAP LATITUDE	374003.0660N
FPAP LONGITUDE	1220830.4530W
THRESHOLD CROSSING HEIGHT (TCH)	00035.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

40227B2E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00152
FPAP ORTHOMETRIC HEIGHT	+00152

2

CITY AND STATE  
HAYWARD, CA

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HAYWARD EXECUTIVE

FACILITY  
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RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 28L, AMDT 1  
15 NOVEMBER 2012

SUP: RNAV (GPS) Y RWY  
28L  
AMDT: ORIG  
DATED: 07/05/2007

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KHWDK2FR28L	ASJC	010SJC	K2D 0V	IF					18000		A	JS
SUSAP	KHWDK2FR28L	ASJC	020JOBUSK2EA0EY	020TF		03110110	+	05700				A	JS
SUSAP	KHWDK2FR28L	ASJC	030JOBUSK2EA0EE	AR HF		28510050	+	05700				A	JS
SUSAP	KHWDK2FR28L	ASUNOL	010SUNOLK2EA0E	IF						18000		A	JS
SUSAP	KHWDK2FR28L	ASUNOL	020JOBUSK2EA0EY	020TF		15170064	+	05700				A	JS
SUSAP	KHWDK2FR28L	ASUNOL	030JOBUSK2EA0EE	AR HF		28510050	+	05700				A	JS
SUSAP	KHWDK2FR28L	AVINCO	010VINCOK2EA0E	A IF						18000		A	JS
SUSAP	KHWDK2FR28L	AVINCO	020JOBUSK2EA0EE	B 010TF		32320081	+	05700				A	JS
SUSAP	KHWDK2FR28L	R	010JOBUSK2EA0E	I IF			+	05700		18000		A	JS
SUSAP	KHWDK2FR28L	R	011OKIVYK2EA0E	S 051TF		28510032	+	04800				A	JS
SUSAP	KHWDK2FR28L	R	012WESCHK2EA0E	S 051TF		28500032	+	03900				A	JS
SUSAP	KHWDK2FR28L	R	020SUDGEK2EA1E	F 051TF		28500025	+	03200				RW28L K2PGA	JS
SUSAP	KHWDK2FR28L	R	020SUDGEK2EA2WALPV		ALNAV/VNAV	ALNAV							JS
SUSAP	KHWDK2FR28L	R	021FENRAK2EA0E	S 031TF		28500033	V	0212002126		-310		A	JS
SUSAP	KHWDK2FR28L	R	022BOGREK2EA0E	S 031TF		28490023	V	0136001369		-310		A	JS
SUSAP	KHWDK2FR28L	R	023HUZBYK2EA0E	S 031TF		28490011	V	0100001007		-310		A	JS
SUSAP	KHWDK2FR28L	R	030RW28LK2PGOGY	M 031TF		28490028		00085		-310		A	JS

CITY AND STATE <b>HAYWARD, CA</b>	ELEVATION: <b>52</b> AIRPORT NAME: <b>HAYWARD EXECUTIVE</b>	THRE: <b>50</b>	FACILITY IDENTIFIER:  <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) RWY 28L, AMDT 1</b>  15 NOVEMBER 2012	SUP: <b>RNAV (GPS) Y RWY 28L</b>
					AMDT: <b>ORIG</b>
					DATED: <b>07/05/2007</b>

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SUSAP KHWDK2SRW28LK2PG 0 18018005325 M

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	SJC	SJC	010		IF		FB					
	SJC	JOBUS	020		TF		FO	2.0	031.1(046.1T)	011.0	AA 05700	
	SJC	JOBUS	030	IAF	HF	R	FO		285.1(300.1T)	005.0	AA 05700	
	SUNOL	SUNOL	010		IF		FB					
	SUNOL	JOBUS	020		TF		FO	2.0	151.7(166.7T)	006.4	AA 05700	
	SUNOL	JOBUS	030	IAF	HF	R	FO		285.1(300.1T)	005.0	AA 05700	
	VINCO	VINCO	010	IAF	IF		FB					
	VINCO	JOBUS	020		TF		FB	1.0	323.2(338.2T)	008.1	AA 05700	
		JOBUS	010	FACF	IF		FB				AA 05700	
		OKIVY	011	SDF	TF		FB	0.5	285.1(300.1T)	003.2	AA 04800	
		WESCH	012	SDF	TF		FB	0.5	285.0(300.0T)	003.2	AA 03900	
		SUDGE	020	FAF	TF		FB	0.5	285.0(300.0T)	002.5	AA 03200	
		FENRA	021	SDF	TF		FB	0.3	285.0(300.0T)	003.3	AA 02120 GS 02126	
		BOGRE	022	SDF	TF		FB	0.3	284.9(299.9T)	002.3	AA 01360 GS 01369	
		HUZBY	023	SDF	TF		FB	0.3	284.9(299.9T)	001.1	AA 01000 GS 01007	
		RW28L	030	MAP	TF		FO	0.3	284.9(299.9T)	002.8	AT 00085	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		284.9(299.9T)		AA 00600	
	OAK	050		DF	R	FO				AA 02000	
	OAK	060		HM	R	FO		122.0(137.0T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OAK	N374333.32	W1221324.91	N3743.555	W12213.415
	SJC	N372228.96	W1215640.80	N3722.483	W12156.680
	BOGRE	N373721.95	W1220237.69	N3737.366	W12202.628
	FENRA	N373613.04	W1220007.15	N3736.217	W12200.119
	HUZBY	N373754.88	W1220349.72	N3737.915	W12203.829
	JOBUS	N373004.71	W1214645.65	N3730.079	W12146.761
	OKIVY	N373142.15	W1215017.17	N3731.703	W12150.286
	SUDGE	N373435.12	W1215633.57	N3734.585	W12156.560
	SUNOL	N373619.91	W1214837.01	N3736.332	W12148.617
	VINCO	N372235.11	W1214259.52	N3722.585	W12142.992
	WESCH	N373319.49	W1215348.83	N3733.325	W12153.814
	RW28L	N373918.66	W1220653.13	N3739.311	W12206.886

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28L	00050	35

CITY AND STATE <b>HAYWARD, CA</b>	ELEVATION: <b>52</b>	THRE: <b>50</b>	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: <b>RNAV (GPS) RWY 28L</b>
	AIRPORT NAME: <b>HAYWARD EXECUTIVE</b>		<b>RNAV</b>	<b>RNAV (GPS) RWY 28L, AMDT 1</b>	AMDT: <b>ORIG</b>
				15 NOVEMBER 2012	DATED: <b>07/05/2007</b>