

**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><b>AIRPORT</b></u> SACRAMENTO MATHER	<u><b>AIRPORT ID</b></u> KMHR	<u><b>PROCEDURE NAME</b></u> ILS OR LOC RWY 22L ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II)	<u><b>ORIGINAL/AMENDMENT</b></u> 7	<u><b>CITY</b></u> SACRAMENTO	<u><b>STATE</b></u> CA
<u><b>AIRPORT ELEVATION</b></u> 98	<u><b>TDZE</b></u> 98	<u><b>SUPERSEDED</b></u> ILS OR LOC RWY 22L	<u><b>ORIGINAL/AMENDMENT</b></u> 6	<u><b>DATED</b></u> 09/13/2018	<u><b>MAG VAR</b></u> 13E
<u><b>FACILITY</b></u> I-MHR	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 5 DECEMBER 2019	<u><b>REQUIRED EFFECTIVE DATE</b></u> 12/05/2019	<u><b>CANCEL/SUSPEND</b></u>	<u><b>EPOCH YEAR</b></u> 2020

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
SWR VOR/DME		ACEKO/SWR 15.00 DME					214.38	15.00	11200
ACEKO/SWR 15.00 DME		OHDEE/I-MHR 32.07 DME					214.38	15.22 (SWR R-214)	8100
OHDEE/I-MHR 32.07 DME	IAF	ESDIE/27.08 DME					220.72	4.99 (I-MHR)	8100
ESDIE/27.08 DME		CAMRR INT/I-MHR 21.03 DME	NOPT				220.72	6.05 (I-MHR)	6100
COLOM INT/HNW 8.89 DME	IAF	CAMRR INT/I-MHR 21.03 DME	NOPT				172.00 & 220.72	2.77 (HDG) & 4.49 (I-MHR)	6100
HNW VOR/DME	IAF	CAMRR INT/I-MHR 21.03 DME	NOPT				261.72	9.85	6100
CAMRR INT/I-MHR 21.03 DME	IF/IAF	LDOOR/16.73 DME					220.72	4.30 (I-MHR)	4800
LDOOR/16.73 DME		YOSHE/10.74 DME					220.72	5.99 (I-MHR)	2900
YOSHE/10.74 DME		GADBE/7.28 DME					220.72	3.46 (I-MHR)	1800

**MISSED APPROACH**

**MAP:**

ILS: DA  
 LOC: I-MHR 2.11 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 090 AND SAC VORTAC R-058 TO COSKA INT/SAC 24.22 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 090 AND LIN VOR/DME R-338 TO COSKA INT/LIN 28.43 DME AND HOLD. (DME REQUIRED)



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF (IAF)

2. HOLD NE CAMRR, LT, 220.72 INBOUND, 6100 FT. IN LIEU OF PT (IAF), MAX 11000.

3. FAC: 220.72      FAF: GADBE/7.28 DME      DIST FAF TO MAP:      DIST FAF TO THLD: 5.17

4. MIN ALT: CAMRR INT/I-MHR 21.03 DME 6100, LDOOR/16.73 DME 4800, YOSHE/10.74 DME 2900, GADBE/7.28 DME 1800, JEKAX/4.21 DME 800\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      GS ANT: 1127

6. MIN GS INCPT: 1800      GS ALT AT FAF : GADBE/7.28 DME 1800      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1:      20:1:      TCH: 55.7

8. MSA FROM: SAC VORTAC 220-310 4100, 310-220 3100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED FOR LOC ONLY.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 22: CAT A, B, C, D RA 136, RVR 1400, HAT 150, DA 248 MSL.  
SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 22: CAT A, B, C, D RA 95, RVR 1200, HAT 100, DA 198 MSL.  
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.  
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.  
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: CIRCLING NA NW OF RWY 4R-22L.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000 AND S-LOC CAT C/D/E VISIBILITY TO RVR 6000.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COLOM ON V6 NORTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HNW ON V338 NORTH BOUND.  
\*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART AT OR ABOVE 7000 AT HNW VOR/DME.  
CHART IN PLANVIEW: COSKA INT/SAC 24.22 DME.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S COSKA INT/LIN 28.43 DME, RT, 338.18 INBOUND.  
CHART CIRCLING ICON.  
CHART VDP AT 3.40 DME\*  
DISTANCE VDP TO THLD 1.29 NM  
\* LOC ONLY  
CHART FAS OBST: 235 TOWER 383442N/1211531W.  
HOLD SW, RT, 058.01 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD, NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT E 800-2 1/2, NA WHEN CONTROL TOWER CLOSED.



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 22L**	298	2400	200	298	2400	200	298	2400	200	298	2400	200	298	2400	200
S-LOC 22L	500	2400	402	500	2400	402	500	4000	402	500	4000	402	500	4000	402
CIRCLING	560	1	462	560	1	462	600	1 1/2	502	800	2 1/4	702	800	2 1/2	702

**CHANGES - REASONS**

- 1. ADDED SA CAT I AND SA CAT II MINIMUMS AND ASSOCIATED NOTES - ATC REQUEST.
- 2. ADDED CHART CIRCLING ICON - IAW 8260.3D.

10/2/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 11/19/2018.

- 1. CHANGED S-ILS 22L ALL CATS VISIBILITY MINIMUMS FROM 1/2 SM TO RVR 2400.
- 2. CHANGED S-LOC 22L CAT A/B VISIBILITY MINIMUMS FROM 1/2 SM TO RVR 2400, CAT C/D/E FROM 3/4 SM TO RVR 4000.
- 3. CHANGED CHART NOTE FROM: FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO 3/4 SM AND S-LOC CAT C/D/E VISIBILITY TO 1 1/8 SM, TO: FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000 AND S-LOC CAT C/D/E VISIBILITY TO RVR 6000.

10/29/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 10/4/2019:

- 1. CHANGED PROCEDURE NAME FROM ILS OR LOC RWY 22 TO ILS OR LOC RWY 22L, ILS RWY 22 (SA CAT I) TO ILS RWY 22L (SA CAT I), ILS RWY 22 (SA CAT II) TO ILS RWY 22L (SA CAT II).
- 2. ADDED \*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA TO PROCEDURE NOTES.
- 3. CORRECTED RA AND VISIBILITY VALUES ON FLIGHT INSPECTION GRAPHICS.
- 4. ADDED "ILS: STANDARD" TO ALTERNATE MINIMUMS.

**COORDINATED WITH:**

**A4A** ☒    **ALPA** ☒    **AOPA** ☒    **APA** ☒    **HAI** ☐    **NBAA** ☒    **OTHER:** ZLA, NORCAL APP CON, ST. AERO DIR, ARPT MGR

**FLIGHT CHECKED BY**

SCOTT A THOMPSON

*Digitally signed by*

**WARDELL HENNING**

Oct 29, 2019

**OFFICE**

FICO

**DATE**

10/25/2019

**DEVELOPED BY**

WARDELL HENNING (TODD BOWLING)

*Digitally signed by*

**WARDELL HENNING**

Oct 29, 2019

**OFFICE**

AJV-A432

**DATE**

04/18/2019

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

**WARDELL HENNING**

Oct 29, 2019

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER

