

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> KMHR	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 22L ILS Z RWY 22L (SA CAT I), ILS Z RWY 22L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 8	<u>CITY</u> SACRAMENTO	<u>STATE</u> CA			
<u>AIRPORT ELEVATION</u> 98	<u>TDZE</u> 98	<u>SUPERSEDED</u> ILS OR LOC RWY 22L ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 7A	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 13E	<u>EPOCH YEAR</u> 2020	
<u>FACILITY</u> I-MHR	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 15 JUNE 2023	<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>
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/I-MHR 27.08 DME					220.72	4.99 (I-MHR)	8100
ESDIE/I-MHR 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	2.58 (HDG) & 4.75 (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/I-MHR 16.73 DME					220.72	4.30 (I-MHR)	4800
LDOOR/I-MHR 16.73 DME		YOSHE/I-MHR 10.74 DME					220.72	5.99 (I-MHR)	2900
YOSHE/I-MHR 10.74 DME		GADBE/I-MHR 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 1000, THEN CLIMBING LEFT TURN TO 3500 ON HEADING 090 AND SAC VORTAC R-058 TO COSKA INT/SAC 24.22 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1000, THEN CLIMBING LEFT TURN TO 3500 ON HEADING 090 AND LIN VOR/DME R-338 TO COSKA/LIN 28.43 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500 (DME REQUIRED).

QUALITY
20
CHECKED

AIRPORT ID
KMHK

PROCEDURE NAME
ILS Z OR LOC Z RWY 22L
ILS Z RWY 22L (SA CAT I),
ILS Z RWY 22L (SA CAT II)

ORIGINAL/AMENDMENT
8

CITY
SACRAMENTO

STATE
CA

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 8100.

3. FAF: 220.72 **FAF:** GADBE/I-MHR 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/I-MHR 16.73 DME 4800, YOSHE/I-MHR 10.74 DME 2900, GADBE/I-MHR 7.28 DME 1800, JEKAX/I-MHR 4.21 DME 800

5. DIST TO THLD FROM OM: **MM:** **IM:** 150 **HAT:** 1788 **GS ANT:** 1127

6. MIN GS INCPT: 1800 **GS ALT AT PFAF :** GADBE/I-MHR 7.28 DME 1800 **OM:** **MM:** **IM:**

7. GS ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 56.0

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 22L: 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 22L: CAT A, B, C, D, RA 95, RVR 1200, HAT 100, DA 198 MSL.
SA CAT I/II CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
SA CAT I/II CHART NOTE: PROCEDURE NA WHEN TOWER CLOSED.
*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING SACRAMENTO EXECUTIVE ALTIMETER SETTING).
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 NOTE: CIRCLING NA NW OF RWY 4R-22L.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COLOM ON V6 NORTHEAST BOUND.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART AT OR ABOVE 7000 AT HNW VOR/DME.
CHART IN PLANVIEW: COSKA INT/SAC 24.22 DME.
CHART FAS OBST: 235 TOWER (06-025571) 383442N/1211531W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S COSKA/LIN 28.43 DME, RT, 338.18 INBOUND.
HOLD SW, RT, 058.01 INBOUND.
452 AAO 383630N/1211030W.
CHART VDP AT 3.21 DME.
DISTANCE VDP TO THLD 1.10 NM.
CHART CIRCLING ICON.



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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE., 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. CHANGED APPROACH DESIGNATION FROM "ILS OR LOC RWY 22L" TO "ILS Z OR LOC Z R22L" - NEW PROCEDURE, Y, WAS ADDED TO ILS OR LOC RWY 22L.
2. CHANGED COLOM TO CAMRR DEAD RECKONING HEADING AND DISTANCE FROM 2.77 & 4.49 TO 2.58 & 4.75 - NEW TARGETS COMPUTATION.
3. CHANGED PRIMARY MISSED APPROACH INSTRUCTION FROM "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" TO "CLIMB TO 1000, THEN CLIMBING LEFT TURN TO 3500 ON HEADING 090 AND SAC VORTAC R-058 TO COSKA INT/SAC 24.22 DME AND HOLD, CONTINUE CLIMB-IN-HOLD" - DUE TO NEW CONTROLLING OBSTACLE.
4. CHANGED ALTERNATE MISSED APPROACH INSTRUCTION FROM ""CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 090 AND LIN VOR/DME R-338 TO COSKA/LIN 28.43 DME AND HOLD" O "CLIMB TO 1000, THEN CLIMBING LEFT TURN TO 3500 ON HEADING 090 AND LIN VOR/DME R-338 TO COSKA/LIN 28.43 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500 (DME REQUIRED)" - DUE TO NEW CONTROLLING OBSTACLE.
5. UPDATED SPECIAL AUTHORIZATION CAT I/II REQUIREMENT, ADDED "SA CAT I/II CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL. CAT II/III CHART NOTE" TO NOTES - IAW 8-6-11 (M).
6. UPDATED AND MOVED BACKUP ALTIMETER AND ASSOCIATED NOTES TO 8260-9 IN GENERAL REMARKS - FOR CONTINGENCY PURPOSES IAW 8260.19I, 8-6-9 (F) (4).
7. REMOVED *LNAV (OR LOC) ONLY - NO LONGER REQUIRED IAW 8260.19I 1-1-5 (F) (12).
8. CHANGED VDP AND VDP TO THLD DISTANCE FROM 3.40/1.29 NM TO 3.21/1.10 NM - NEW TARGETS COMPUTATION.
9. ADDED 7:1 OBSTACLE "452 AAO 383630N/1211030W" - IAW 8260.19I, 8-6-10 (E).
10. CHANGED ALTERNATE MINIMUMS NOTE FROM "ILS: STANDARD, NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT E 800-2 1/2, NA WHEN CONTROL TOWER CLOSED" TO "ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE; NA WHEN CONTROL TOWER CLOSED; LOC: STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE; NA WHEN CONTROL TOWER CLOSED" - IAW 8260, 8-6-11.
11. LOWERED MAX HOLD-IN-LIEU ALTITUDE FROM 11000 TO 8100 - TO REMAIN WITHIN LIMITS OF MHR LOC/DME EXPANDED SERVICE VOLUME (ESV) MAXIMUM ALTITUDE.

COORDINATED WITH:

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

FLIGHT CHECKED BY GARY J VEER	Digitally signed by ERIC N SUSKI Feb 02, 2023	OFFICE FPO	DATE 01/20/2023
DEVELOPED BY PARNELL PRASSADA	Digitally signed by PARNELL R PRASSADA Oct 21, 2022	OFFICE AJV-A431	DATE
APPROVED BY JOHNNIE BAKER	Digitally signed by ERIC N SUSKI Oct 28, 2022	OFFICE AJV-A430	DATE
			TITLE MANAGER

