

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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</u> SACRAMENTO MATHER	<u>AIRPORT ID</u> KMHR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4R	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> SACRAMENTO	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 98	<u>TDZE</u> 81	<u>SUPERSEDED</u> RNAV (GPS) RWY 4R	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 06/26/2014	<u>MAG VAR</u> 13E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
PIVSE		SAC VORTAC		TF	FB	2.00	080.99	7.00	3000
GALTS		LOGYE		TF	FO	2.00	306.19	13.85	2000
SAC VORTAC	IAF	LOGYE	NOPT	TF	FB	1.00	075.35	3.12	2000
LOGYE	IF/IAF	ZISES		TF	FB	1.00	040.59	6.06	1400
ZISES	FAF	RW04R	MAP	TF	FO	0.30	040.66	4.00	
RW04R	MAP	331 MSL		CA			040.66		
331 MSL		STNGR		DF	FO	1.00			3300

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW04R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3300 DIRECT STNGR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD SW LOGYE, RT, 040.59 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 4000.
3. FAC: 040.66 FAF: ZISES DIST FAF TO MAP: 4.00 DIST FAF TO THLD: 4.00
4. MIN ALT: LOGYE 2000, ZISES 1400
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.64
6. MIN GP INCPT: 1400 GP ALT AT FAF : ZISES 1400 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 50.4
8. MSA FROM: RW04R 3900

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SAC VORTAC AIRWAY RADIALS 021 CW 113.
CHART NOTE: CIRCLING NA NW OF RWY 4R-22L.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 37C.

ADDITIONAL FLIGHT DATA:

250 AAO 383043N/1212215W
CHART CIRCLING ICON.
CHART VDP AT 1.1 NM TO RW04R*
*LNAV ONLY
WAAS CHANNEL #45601
REFERENCE PATH ID: W04A
CHART FAS OBST: 198 ANTENNA 383145N/1212130W.
HOLD NE, RT, 220.86 INBOUND
LTP HAE: -6.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

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
LPV DA	331	3/4	250	331	3/4	250	331	3/4	250	331	3/4	250			
LNAV/VNAV DA	375	1	294	375	1	294	375	1	294	375	1	294			
LNAV MDA	480	1	399	480	1	399	480	1 1/4	399	480	1 1/4	399			QUALITY 10 CHECKED
CIRCLING	560	1	462	580	1	482	600	1 1/2	502	800	2 1/4	702			

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
SACRAMENTO MATHER	KMHR	RNAV (GPS) RWY 4R	1C	SACRAMENTO	CA

CHANGES - REASONS

1. MAGVAR CHANGED FROM 17E TO 13E - REASON FOR AMENDMENT.
2. TERMINAL ROUTES: PIVSE TO SAC VORTAC COURSE CHANGED FROM 077.03 TO 080.99 - MAGVAR CHANGE.
3. TERMINAL ROUTES: SAC VORTAC TO LOGYE COURSE CHANGED FROM 071.25 TO 075.35 - MAGVAR CHANGE.
4. TERMINAL ROUTES: GALTS TO LOGYE INITIAL CONVERTED TO FEEDER; REMOVED NOPT; COURSE CHANGED FROM 302.19 TO 306.19 - TURN TO INTERMEDIATE IS 95 DEGREES, PT REQUIRED.
5. TERMINAL ROUTES: LOGYE TO ZISES COURSE CHANGE FROM 036.59 TO 040.59, DISTANCE FROM 6.10 TO 6.06 - MAGVAR CHANGED; FINAL SEGMENT EXTENDED IAW IPDS DERIVED PFAF BASED ON NEW CRITERIA.
6. TERMINAL ROUTES: ZISES TO RW04R COURSE CHANGED FROM 036.66 TO 040.66, ADDED 4.0 DISTANCE - MAGVAR CHANGED; DISTANCE MISSING.
7. TERMINAL ROUTES: RW04R TO 331 MSL COURSE 040.66 ADDED - COURSE MISSING.
8. LINE 2: H-I-L INBOUND COURSE CHANGED FROM 036.59 TO 040.59 - MAGVAR CHANGE.
9. LINE 3: FAC 036.66 CHANGED TO 040.66; DIST FAF TO MAP/THLD CHANGED FROM 3.96 TO 4.00 - MAGVAR CHANGE; PFAF MOVED PER IPDS DERIVED PFAF BASED ON NEW CRITERIA.
10. LINE 6: GS ALT AT ZISES 1400 ADDED - INFO MISSING.
11. LINE 7: TCH CHANGED FROM 50.0 TO 50.4; ADDED 20:1 IS CLEAR - TCH ADJUSTED JUST ENOUGH TO CAUSE IPDS TO IGNORE PERMITTED GQS PENETRATIONS (RWY END ID LIGHTS); 20:1 VISUAL AREA IS CLEAR.
12. MINIMUMS: CIRCLING MDA/HAA CHANGED, CAT A FROM 560/461 TO 560/462; CAT B FROM 560/461 TO 580/482; CAT C FROM 560/461 TO 600/502; CAT D FROM 660/561 TO 800/702; CAT D VISIBILITY FROM 2 SM TO 2 1/4 SM. - NEW CIRCLING RADII USED.
13. CHART NOTE DME/DME RNP -0.3 NA REMOVED, ADDED PBN NAVSPEC REQUIREMENT NOTE: RNP APCH - NEW CRITERIA.
14. "PROCEDURE NA FOR ARRIVALS AT SAC VORTAC ON AIRWAY RADIALS 021 CW 137" CHANGED TO "PROCEDURE NA FOR ARRIVAL ON SAC VORTAC AIRWAY RADIALS 021 CW 113" - NEW VERBIAGE IN CRITERIA.
15. CHANGED CHART NOTE FROM CIRCLING NA NORTH OF RWYS 4L-22R TO CIRCLING NA NW OF RWY 4R-22L - AIRPORT MANAGER REQUEST NO CIRCLING FOR NOISE ABATEMENT.
16. AIRPORT ELEVATION CHANGED FROM 99 TO 98 - PENDING DATA.
17. ADDITIONAL FLIGHT DATA: HOLDING INBOUND COURSE CHANGED FROM 216.85 TO 220.86 - MAGVAR CHANGED.
18. ADDITIONAL FLIGHT DATA: CHARTED FAS OBSTACLE CHANGED FROM 114 POLE TO 198 ANTENNA - NEW OBSTACLE ANALYSIS.
19. ADDITIONAL FLIGHT DATA: 224 TRMSN TWR AND 249 TREE REMOVED - NEW OBSTACLE ANALYSIS.
20. ADDITIONAL FLIGHT DATA: VDP MOVED FROM 1.12 MILES, TO 1.10 NM - FINAL SEGMENT EXTENDED.
21. ADDITIONAL FLIGHT DATA: CHART CIRCLING ICON ADDED - NEW CIRCLING RADII USED.
22. ADDITIONAL FLIGHT DATA: MAG VAR AND EPOCH YEAR CHANGED FROM 17E/80 TO 13E/2020 - MAGVAR CHANGED.
23. ALTERNATE MINS: CAT D NOT STANDARD - CAT D CIRCLING MINIMUMS INCREASED TO 800-2 1/4.
24. CRC REMAINDER CHANGED FROM 7A682ED9 TO DC1FE98F - LTP/FPAP COORDINATES AND ORTHOMETRIC HEIGHTS UPDATED.

PDF EDITS:
 ADDED TO ADDITIONAL FLIGHT DATA "DISTANCE TO THLD FROM 250 HAT: 0.64 NM" - DUE TO NEW FORM ANOMALY.
 ADDITIONAL FLIGHT DATA - CHANGED LTP HAE FROM -7 TO -6.8 - DUE TO NEW FORM PROBLEMS.
 ADDED TO ALTERNATE MINIMUMS - CAT D 800 - 2 1/4 - DUE TO NEW FORM OR SIAP PROBLEMS.



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<u>COORDINATED WITH:</u>					
A4A <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> OTHER: ZOA, NORCAL APP CON, MHR ATCT, APT MGR, ATA					
<u>FLIGHT CHECKED BY</u> SCOTT A THOMPSON		<u>OFFICE</u> FICO		<u>DATE</u> 6/22/18	
<u>DEVELOPED BY</u> COLTON CROWDER		<u>OFFICE</u> AJV-5431		<u>DATE</u> 03/21/2018	
<u>APPROVED BY</u> PATRICK MULQUEEN		<u>OFFICE</u> AJV-5430		<u>TITLE</u> MANAGER	



