

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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> O08	<u>PROCEDURE NAME</u> VOR-A	<u>ORIGINAL/AMENDMENT</u> 6	<u>CITY</u> COLUSA	<u>STATE</u> CA		
<u>AIRPORT ELEVATION</u> 49	<u>TDZE</u>	<u>SUPERSEDED</u> VOR-A	<u>ORIGINAL/AMENDMENT</u> 5A	<u>DATED</u> 01/03/2019	<u>MAG VAR</u> 18E	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> ILA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
DALON/ILA 11.17 DME		ILA VORTAC					071.34	11.17	4000
RUMSY/ILA 17.34 DME		ILA VORTAC					029.67	17.34	5300
ZAKUL/ILA 10.00 DME	IF	ILA VORTAC	NOPT				352.99	10.00	2200

MISSED APPROACH

MAP:

6.47 NM AFTER ILA VORTAC OR AT IGIXE/ILA 6.47 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 3200 DIRECT ILA VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT L SIDE OF COURSE 175.76 OUTBOUND 3500 FT WITHIN 10 MILES OF ILA VORTAC (IAF)
-
- FAC: 355.76 FAF: ILA VORTAC DIST FAF TO MAP: 6.47 DIST FAF TO THLD:
- MIN ALT: ILA VORTAC 2200
- MSA FROM: ILA VORTAC 090-210 4300, 210-330 5200, 330-090 3400



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING RWY 32 NA AT NIGHT.

CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, USE SACRAMENTO INTL ALTIMETER SETTING AND INCREASE ALL MDAS 100 FEET AND VISIBILITY CAT C 1/2 SM.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 355.76 INBOUND.

FAS OBST: 260 AAO 390543N/1220229W.

FAC CROSSES MIDPOINT OF RWY 14-32.

CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☒

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
CIRCLING	600	1	551	600	1	551	620	1 1/2	571		NA				

CHANGES - REASONS

1. INCORPORATED PREVIOUS NOTAMS INTO AMDT 6.
2. RUNWAYS RENUMBERED FROM 13/31 TO 14/32, ALL REFERENCES UPDATED - AIRPORT MAGVAR UPDATED FROM 14E/2020 TO 13E/2025.
3. TERMINAL ROUTES: DALON/ILA 11.18 DME CHANGED TO DALON/ILA 11.17 DME, DALON TO ILA VORTAC COURSE CHANGED FROM 071.35 TO 071.34, RUMSY TO ILA VORTAC COURSE CHANGED FROM 029.68 TO 029.67 - CALCULATIONS UPDATED WITH TARGETS ROUNDING.
4. TERMINAL ROUTES: FEEDER RUMSY TO ILA VORTAC ALTITUDE RAISED FROM 5000 TO 5300 - PRIOR AMENDMENT USED 225 ROC REDUCTION TO ACHIEVE 5000, FEEDER ROUTE HAS PRECIPITOUS TERRAIN IN MOUNTAINOUS AREA, ROC REDUCTION NOT ALLOWED IAW 8260.3E 14-2-1.
5. TERMINAL ROUTES: ZAKULA TO ILA VORTAC COURSE CHANGED FROM 353.00 TO 352.99 - UPDATED CALCULATIONS WITH TARGETS ROUNDING.
6. MISSED APPROACH INSTRUCTIONS: CHANGED FROM CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3500 DIRECT ILA VORTAC TO CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 3200 DIRECT ILA VORTAC AND HOLD - CLIMB TO 2100 REQUIRED TO AVOID A CLIMB-IN HOLD TO 1000 FT ABOVE FAF ALTITUDE, HOLDING PATTERN REQUIRED IAW 8260.19I 8-6-6G.
7. PROFILE LINE 1: SIDE OF COURSE CHANGED FROM 173.00 TO 175.76 - CHANGED FOR OPTIMAL ALIGNMENT.
8. PROFILE LINE 3: FAC CHANGED FROM 355.75 TO 355.76 - TARGETS ROUNDING CALCULATION.
9. PROFILE LINE 8: MSA 210-330 CHANGED FROM 5100 TO 5200 - 3 ARCSEC TERRAIN USED IN EVALUATION IDENTIFIED NEW CONTROLLING OBSTACLE, 4111 MSL AAO 390748.00N/1223639.00W.
10. EQUIPMENT REQUIREMENTS NOTES: MOVED "DME REQUIRED" FROM ADDITIONAL FLIGHT DATA - IAW 8260.19I 8-6-8A(5).
11. ADDITIONAL FLIGHT DATA: ADDED "HOLD S, RT, 355.76 INBOUND" - HOLDING PATTERN ADDED TO MISSED APPROACH, DOCUMENTED IAW 8260.19I 8-6-10B(1).
12. ADDITIONAL FLIGHT DATA: FAS AAO LAT/LONG CHANGED FROM 390545N/1220224W TO 390543N/1220229W - NEW OBSTACLE EVALUATION WITH UPDATED MAP STUDY.
13. MINIMUMS: REMOVED SACRAMENTO INTL ALTIMETER SETTING MINIMUMS AND ADDED BACKUP ALTIMETER NOTE - FPT REQUEST/COMBINE REDUNTANT NOTE.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZOA ARTCC, AMGR, CA AERO

FLIGHT CHECKED BY

JOSEPH R JAQUISH

Digitally signed by

ERIC N SUSKI

Apr 25, 2024

OFFICE

FPO

DATE

03/05/2024

DEVELOPED BY

RICHARD CHRISTENSEN

Digitally signed by

RICHARD E. CHRISTENSEN

Feb 06, 2024

OFFICE

AJV-A431

DATE

11/24/2023

APPROVED BY

ERIC N SUSKI

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ERIC N SUSKI

Feb 21, 2024

OFFICE

AJV-A431

DATE

05/16/2024

TITLE

MANAGER



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
O08	VOR-A	6	COLUSA	CA	49	ILA

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM DALON/ILA 11.17 DME **TO** ILA VORTAC

<u>RNP</u>	<u>DISTANCE</u> 11.17	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	390015.00N/1221406.00W	1204	215	8	4B	2000				AT796	4000
TERRAIN	390015.00N/1221406.00W	1003 (1000)								AS1500	2500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM RUMSY/ILA 17.34 DME **TO** ILA VORTAC

<u>RNP</u>	<u>DISTANCE</u> 17.34	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	385124.00N/1221724.00W	3229	215	8	4B	2000					5300
TERRAIN	385142.00N/1221651.00W	2864 (2900)								AS1500	4400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
34
CHECKED

INTERMEDIATE

FROM

ZAKUL/ILA 10.00 DME

TO

ILA VORTAC

<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	385445.00N/1220912.00W	1247	215	8	4B	500				AT453	2200
TERRAIN	385539.00N/1220839.00W	980 (1000)								AS1000	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

1000 FT OF AIRSPACE UTILIZED TO MAINTAIN 2200 FT ELEVATION AT FAF, 1500 FT POINT IN INTERMEDIATE, ADDITIONAL AIRSPACE NEEDED EXTENDING OUTBOUND FROM FAF.

INTERMEDIATE: PT

FROM

10 NM

TO

ILA VORTAC

<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	385506.00N/1220733.00W	1040	215	8	4B	500				AT660	2200
TERRAIN	385506.00N/1220733.00W	839 (800)								AS1000	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL

FROM

ILA VORTAC

TO

6.47 NM AFTER ILA VORTAC OR AT IGIXE/ILA 6.47 DME

RNP

DISTANCE

PAT

MAP

HAT

HMAS

6.47

6.47 NM AFTER ILA VORTAC
OR AT IGIXE/ILA 6.47 DME

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	390543.10N/1220228.96W	260	50	20	2C	250				XL24	540

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

PROCEDURE TURN

FROM

ILA VORTAC

TO

10 NM

RNP

DISTANCE

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	385048.00N/1220854.00W	2136	215	8	4B	1000				AT364	3500
TERRAIN	385048.00N/1220854.00W	1935 (1900)								AS1500	3400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH

FROM

6.47 NM AFTER ILA VORTAC OR AT IGIXE/ILA 6.47 DME

TO

ILA VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
								326			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3200
AAO	391203.00N/1215133.00W	998	215	8	4B	1000					2000
TERRAIN	391203.00N/1215133.00W	797 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (06-002130)	391148.73N/1215952.15W	1.30	551	245	20	3	1A	300		XP55	600
CATEGORY B											
AAO	391120.62N/1215735.97W	1.81	551	270	50	20	2C	300		XP30	600
CATEGORY C											
AAO	391120.62N/1215735.97W	2.84	571	270	50	20	2C	300		XP50	620

CIRCLING REMARKS:

XP55, XP30, XP50: TO MAINTAIN CURRENT PUBLISHED MINIMA PER FPT.



MSA

CENTER

ILA VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
090-210	TERRAIN (06-162538)	383949.21N/1221125.03W	179	25.6	3262	20	3	1A	1000			4300
210-330	AAO	390748.00N/1223639.00W	260	27.5	4111	215	8	4B	1000			5200
330-090	TOWER (06-020287)	391220.00N/1214914.00W	032	12.6	2353	500	125	5E	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZOA ARTCC, RIU FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
CTAF	O08	24	O08	0	N	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	SMF	24	SMF	34.17	Y	82

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KO08 49, KSMF 27
RA = 81.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
ILA VORTAC	POCC	24	1

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW14 - MIRL (PCL), PAPI-2L	NPI-G	
RW32 - MIRL (PCL), PAPI-2L	NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD		FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE		FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 14		
20:1			
64 VEHICLE (VEHICLE ON ROAD-FPT EMAIL NOTAM 1-0102) 391100.94N/1215950.26W (0.67)			
FINAL TYPE	CIRCLING RWY 32		
20:1			
62 TRAVERSE WAY (06-162748) 391027.2400N/1215926.5900W (7.13)		54 FENCE (06-162675) 391028.0400N/1215927.2200W (3.87)	
54 FENCE (06-162823) 391027.8000N/1215926.7900W (1.99)		62 TRAVERSE WAY (06-162877) 391026.3800N/1215925.0800W (0.43)	
<u>PENETRATIONS REMARKS:</u>			
64 FT MSL VEHICLE ON ROAD 20:1 PENETRATION TO RWY 14 NOT APPLICABLE AT NIGHT, GATE CLOSED PRIOR TO SUNSET, AND OPENED AFTER SUNRISE IAW COLUSA COUNTY AGREEMENT.			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - CIRCLING ONLY PROCEDURE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

126 FT VEGETATION HEIGHT USED PER FPT.

RWY LENGTH AND WEIGHT BEARING DOES NOT SUPPORT CAT D. MINIMUMS NOT PUBLISHED.

FINAL APPROACH COURSE AIMING ILA VORTAC TO MISSED APPROACH POINT IGIXE (391033.66N/1215939.39W).

64 VEHICLE ON ROAD 391100.94N/1215950.26W (0.67) 20:1 PENETRATION TO RWY 14 VERIFIED BY AIRPORT AS VEHICLE USE IS DURING DAYLIGHT HOURS ONLY, GATE CONFIRMED CLOSED PRIOR TO SUNSET AND OPENED AFTER SUNRISE PER AIRPORT AGREEMENT WITH DEPT OF PUBLIC WORKS AND COLUSA COUNTY SIGNED 04/18/2022.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	MAP	TO 1000FT POINT	2.80
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	3.01
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	013.76
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	FAF	TO 1500FT POINT	5.27
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	2.77
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	010.99
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD COORDINATES (IF STR-IN)

ARP COORDINATES	391044.40N/1215936.00W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 14 DISTANCE 0.25 NM
FAF COORDINATES	390416.23N/1220138.17W
FIX NAME COORDINATES	MAP IGIXE 391033.66N/1215939.39W, IF ZAKUL 385426.58N/1220404.74W

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RICHARD CHRISTENSEN	AJV-A431	11/24/2023	AERONAUTICAL INFORMATION SPECIALIST

