

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> LITTLE RIVER	<u>AIRPORT ID</u> KLLR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> LITTLE RIVER	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 574	<u>TDZE</u> 574	<u>SUPERSEDED</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 05/28/2015	<u>MAG VAR</u> 15E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2010

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>
ENI VORTAC	IAF	SAVJO	NOPT	TF	FB	1.00	269.00	9.56	5200
WIMUK	IAF	SAVJO	NOPT	TF	FB	1.00	318.00	9.00	5200
SAVJO	IF/IAF	MEMVE		TF	FB	1.00	293.03	9.53	3100
MEMVE	FAF	RAKPE/3.32 NM TO RW29		TF	FB	0.30	292.93	3.33	
RAKPE/3.32 NM TO RW29		RW29	MAP	TF	FO	0.30	292.93	3.32	
RW29	MAP	974 MSL		CA			292.93		
974 MSL		AMAKR		DF	FO	1.00			6000

MISSED APPROACH

MAP:

LP: RW29
 LNAV: RW29

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 6000 DIRECT AMAKR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD SE SAVJO, LT, 293.03 INBOUND, 5200 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 292.93FAF: MEMVEDIST FAF TO MAP: 6.65DIST FAF TO THLD: 6.65

4. MIN ALT: SAVJO 5200, MEMVE 3100, RAKPE/3.32 NM TO RW29 1860

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

6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:

7. GP ANGLE:34:1: IS NOT CLEAR20:1: IS NOT CLEARTCH:

8. MSA FROM: RW29 5500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: CIRCLING NA NORTHEAST OF RWY 11-29.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLAINVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ENI VORTAC ON AIRWAY RADIALS 305 CW 330

ADDITIONAL FLIGHT DATA:

MEMVE TO RWY 29: 3.50/55
OBST: 969 TREE 391343N/1234107W, 1446 TREE 391213N/1233812W.
CHART CIRCLING ICON.
WAAS CHANNEL #77829
REFERENCE PATH ID: W29A
CHART FAS OBST: 724 TREE 391452N/1234351W, 747 TREE 391549N/1234420W.
HOLD W, RT, 072.56 INBOUND
LTP HAE: 143.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4

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
LP MDA	980	1	406	980	1	406	980	1 1/8	406	980	1 1/8	406			
LNAV MDA	1000	1	426	1000	1	426	1000	1 1/4	426	1000	1 1/4	426			
CIRCLING	1040	1	466	1040	1	466	1080	1 1/2	506	1400	2 3/4	826			



CHANGES - REASONS

01. CHANGED LP MDA FROM 1160/586 HAT TO 980/406 HAT. CHANGED LNAV MDA FROM 1420/846 HAT TO 1000/426 HAT- NEW OBSTACLE EVALUATION, LOCAL ALTIMETER SETTING AVAILABLE.
02. CHANGED CIRCLING MDA ALL CATS FROM 1420/846 HAA TO CATS A/B1040/466, CAT C 1080/506 HAA, CAT D 1400/826 HAA- NEW LOCAL ALTIMETER SOURCE AND NEW CIRCLING CRITERIA.
03. REMOVED CHART NOTE: USE UKIAH ALTIMETER SETTING; WHEN NOT RECEIVED, PROCEDURE NA- NEW LOCAL ALTIMETER SOURCE.
04. CHANGED LNAV FINAL STEPDOWN AND MISSED APPROACH CA LEG COURSES FROM 292.90 TO 292.93- TO MEET CURENT CRITERIA.
05. STRAIGHT IN RWY 29 LP MDA CAT C/D VISIBILITY REDUCED FROM 1 3/4 TO 1 1/8. LNAV CAT B REDUCED FROM 1 1/4 TO 1, CIRCLING CAT A/B DECREASED FROM 1 1/4 TO 1, CAT C DECREASED FROM 2 1/2 TO 1 1/2 SM - CHANGED FROM REMOTE PRIMARY ALTIMETER TO LOCAL PRIMARY ALTIMETER, NEW VISCHECK.
06. ADDED ALTERNATE MINS- LOCAL ALTIMETER SOURCE AVAILABLE.
07. REMOVED NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY FROM WIMUK - NO LONGER REQUIRED FOR WAYPOINTS NOT ON AIRWAYS PER AJV GUIDANCE.
08. CHANGED DESCENT ANGLE AND TCH FROM 3.00/55 TCH TO 3.50/55TCH- TO MATCH VGSI, 55 TCH FOR OBSTACLE CLEARANCE PER FPT.
09. MOVED MEMVE 1.11NM NORTHWEST - PFAF MOVED TO MATCH PUBLISHED VGSI VDA
10. FINAL LEG DISTANCE FROM MEMVE TO RAKPE CHANGED FROM 3.9NM TO 3.33NM - FIX MOVED TO MAINTAIN PUBLISHED ALTITUDE WITH VDA CHANGING TO MATCH VGSI.
11. MOVED RAKPE 0.59NM NORTHWEST - TO MAINTAIN SDF ALTITUDE WITH VDA INCREASE.
12. FINAL DISTANCE FROM REKPE TO MAP CHANGED FROM 3.9NM TO 3.32NM - FIX MOVED DUE TO VDA INCREASE TO RETAIN PUBLISHED ALTITUDE.
13. ADDED: 20:1 IS NOT CLEAR TO LINE 7- CURRENT CRITERIA.
14. UPDATED AIRSPACE LETTER - NEW EVALUATION BASED ON NEW PFAF LOCATION
15. INTERMEDIATE LEG DISTANCE FROM MEMVE TO SAVJO CHANGED FROM 8.4NM TO 9.53NM - PFAF MOVED TO MATCH PUBLISHED VGSI VDA.
16. REMOVED NOTE: USE UKIAH ALTIMETER SETTING; WHEN NOT RECEIVED; PROCEDURE NA AND ADDED THE FOLLOWING CONTINGENCY NOTE FOR THE BACKUP ALTIMETER TO THE REMARKS SECTION OF THE -9 PER THE FPT: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE UKIAH ALTIMETER SETTING AND INCREASE MDA 80 FEET, INCREASE VISIBILITY S-29 LP CAT C/D 1/4 SM, INCREASE LNAV CAT C/D 1/8 SM INCREASE CIRCLING CAT D 1/4 SM - NEW VIS CHECK AND IAW 8260.19 PARA 8-6-9.
17. CRC REMAINDER CHANGED FROM 8D40D012 TO EE374AE0: UPDATED FPAP LAT/LONG, GPA CHANGED FROM 3.00 TO 3.50.
18. FAS OBSTACLES CHANGED FROM 839 TREE, 1089 TREE TO 724 TREE, 747 TREE - NEW OBSTACLE EVALUATION.
- 19.CHANGED HELICOPTER VISIBILITY NOTE FROM VISIBILITY REDUCTION BY HELICOPTERS NA TO: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - RUNWAY NUMBER SPECIFIED PER CURRENT CRITERIA.
20. CHANGED LNAV MDA/HAT FROM 1460/886 TO 1000/426 - UPDATED OBSTACLE EVALUATION.

COORDINATED WITH:

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

FLIGHT CHECKED BY

THOMAS MOLOKIE

Digitally signed by

WARDELL HENNING

Jul 03, 2019

OFFICE

FICO

DATE

6/25/2019

DEVELOPED BY

WARDELL HENNING (JANTZEN TAYLOR)

Digitally signed by

WARDELL HENNING

Jul 03, 2019

OFFICE

AJV-5430

DATE

08/28/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

WARDELL HENNING

Jul 03, 2019

OFFICE

AJV-5430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLLR
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	391527.4350N
LTP/FTP LONGITUDE	1234447.2230W
LTP/FTP ELLIPSOIDAL HEIGHT	+01436
FPAP LATITUDE	391622.1555N
FPAP LONGITUDE	1234617.8085W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1152
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	EE374AE0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+01749
FPAP ORTHOMETRIC HEIGHT	+01749



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

AIRPORT
LITTLE RIVER

AIRPORT ID
KLLR

PROCEDURE NAME
RNAV (GPS) RWY 29

AMDT NO.
2

CITY
LITTLE RIVER

STATE
CA

AIRPORT ELEVATION
574

FACILITY
RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
ENI VORTAC

TO
SAVJO

RNP

DISTANCE
9.56

PAT

MAP

HAT

HMAS

<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>
1.TREE	390533.00N/1231803.00W	3279	250	125	4E	1000				PR250 AT671	5200
2.TERRAIN	390533.00N/1231803.00W	3029 (3000)								AS1500	4500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
WIMUK

TO
SAVJO

RNP

DISTANCE
9.00

PAT

MAP

HAT

HMAS

<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>
3.TREE	390633.00N/1232645.00W	2252	250	125	4E	1000				PR200 AT1748	5200
4.TERRAIN	390633.00N/1232642.00W	1962 (2000)								AS1500	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
22
CHECKED

INTERMEDIATE

FROM

SAVJO (IF/IAF)

TO

MEMVE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	9.53											
<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>
5.TREE	390633.00N/1232645.00W		2212	250	125	4E	500				PR150 AT140 AC98	3100
6.TERRAIN	390642.00N/1232712.00W		1535 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LP

FROM

MEMVE

TO

RAKPE/3.32 NM TO RW29

<u>RNP</u>	<u>DISTANCE</u> 3.33	<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>
7.TREE	391311.11N/1234039.95W		1169	50	20	2C	250				RA66 XL33 DG342	1860

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LP STEPDOWN

FROM

RAKPE/3.32 NM TO RW29

TO

RW29

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	3.31		RW29			406						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TREE (06-046040)	391451.51N/1234350.85W		724	20	3	1A	250					980

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

MEMVE

TO

RAKPE/3.32 NM TO RW29

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	3.33											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE	391219.92N/1233821.88W		1369	50	20	2C	250				RA66 XL33 DG142	1860

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

RAKPE/3.32 NM TO RW29

TO

RW29

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	3.32		RW29	426								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.TREE (06-136059)	391548.95N/1234420.24W		747	50	20	2C	250					1000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

SAVJO

TO

P-6

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
		P-6										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TREE	390121.00N/1233127.00W		2977	250	125	4E	1000				PR220 AT1003	5200
12.TERRAIN	390121.00N/1233127.00W		2727 (2700)								AS1500	4200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LP

FROM

RW29

TO

AMAKR

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							880				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
13.TREE	390912.00N/1234200.00W	1469	50	20	2C	1000					2500
14.TERRAIN	390912.00N/1234200.00W	1219 (1200)								AS1500	2700

COMPUTATIONS

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

MISSED APPROACH : LNAV

FROM

RW29

TO

AMAKR

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							900				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
13.TREE	390912.00N/1234200.00W	1469	50	20	2C	1000					2500
14.TERRAIN	390912.00N/1234200.00W	1219 (1200)								AS1500	2700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
8.TREE (06-046040)	391451.51N/1234350.85W	1.30	466	724	20	3	1A	300			1040
CATEGORY B											
8.TREE (06-046040)	391451.51N/1234350.85W	1.83	466	724	20	3	1A	300			1040
CATEGORY C											
15.TREE	391300.00N/1234257.00W	2.87	506	779	50	20	2C	300			1080
CATEGORY D											
16.TREE	391331.20N/1234105.06W	3.75	826	1089	50	20	2C	300			1400

CIRCLING REMARKS:

MSA

CENTER

RW29

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TREE	394112.00N/1233454.00W	002	26.8	4486	250	125	4E	1000			5500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
OAK FSS, ZOA ARTCC

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KLLR	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLLR	<u>DISTANCE</u> 0	<u>SERVICE-A</u> N	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KUKI	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KUKI	<u>DISTANCE</u> 27.051	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 66

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KLLR 574, KUKI 614
RA = 66.44.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW11 - MIRL (PCL)		BSC-G	
RW29 - MIRL (PCL), PAPI-4L (PCL)		BSC-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
					3.50	41.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 11		
20:1			
584 TREE (06-041009) 391559.84N/1234544.14W (20.41)	602 TREE (06-041011) 391605.01N/1234544.96W (19.81)		
610 TREE (06-136443) 391602.48N/1234550.34W (18.96)	581 TREE (06-135643) 391603.97N/1234542.22W (10.55)		



609 TREE (06-042267) 391603.85N/1234551.84W (9.05)			607 TREE (06-136447) 391602.78N/1234552.84W (7.27)		
607 TREE (06-050462) 391605.22N/1234551.48W (3.92)			607 TREE (06-050412) 391604.85N/1234552.38W (2.27)		
Final Type	LP/LNAV				
20:1					
595 VEGETATION (06-041012) 391527.35N/1234442.79W (17.17)			596 TRAVERSE_WAY (06-046227) 391526.98N/1234442.08W (14.82)		
590 TRAVERSE_WAY (06-049885) 391525.04N/1234443.69W (7.79)			585 VERTICAL_POINT (06-050215) 391527.15N/1234442.42W (5.40)		
585 FENCE (06-025222) 391527.15N/1234442.42W (5.40)			593 TREE (06-050043) 391525.52N/1234441.44W (5.30)		
643 TREE (06-050483) 391519.13N/1234431.49W (4.56)			590 TREE (06-047446) 391525.93N/1234441.70W (4.38)		
589 TREE (06-050046) 391526.37N/1234441.31W (3.53)			586 TREE (06-049996) 391526.07N/1234442.37W (2.89)		
638 TREE (06-050479) 391519.11N/1234432.52W (2.70)			581 FENCE (06-025221) 391526.75N/1234442.80W (1.34)		
580 FENCE (06-025220) 391526.29N/1234443.20W (0.15)					
Final Type	LP/LNAV				
34:1					
697 TREE (06-041036) 391513.93N/1234413.60W (43.00)			683 TREE (06-041037) 391513.00N/1234418.51W (36.27)		
680 TREE (06-046532) 391513.36N/1234414.18W (26.02)			633 TREE (06-047712) 391519.74N/1234432.57W (24.26)		
667 TREE (06-050294) 391514.27N/1234419.10W (23.67)			651 TREE (06-050432) 391516.75N/1234425.28W (23.49)		
680 TREE (06-138722) 391512.93N/1234412.78W (22.68)			644 TREE (06-050328) 391516.18N/1234429.19W (22.59)		
690 TREE (06-050378) 391510.94N/1234409.23W (22.56)			655 TREE (06-136071) 391514.29N/1234424.60W (21.75)		
645 TREE (06-046641) 391517.97N/1234426.31W (21.60)			673 TREE (06-046528) 391513.20N/1234415.70W (21.50)		
628 TREE (06-050303) 391518.77N/1234434.71W (21.40)			633 TREE (06-046429) 391518.43N/1234432.13W (21.07)		
628 TREE (06-136079) 391518.54N/1234434.71W (20.98)			631 TREE (06-050480) 391520.27N/1234430.83W (20.05)		
626 TREE (06-042228) 391521.05N/1234432.55W (19.62)			645 TREE (06-050348) 391517.22N/1234425.72W (19.15)		
640 TREE (06-135623) 391518.99N/1234426.67W (19.12)			622 TREE (06-047560) 391517.76N/1234437.75W (19.11)		
628 TREE (06-046426) 391520.19N/1234432.03W (19.10)			658 TREE (06-046372) 391515.26N/1234420.37W (18.80)		
627 TREE (06-050475) 391521.84N/1234430.52W (18.35)			651 TREE (06-050443) 391513.74N/1234425.22W (17.88)		
654 TREE (06-050447) 391514.20N/1234422.96W (17.59)			672 TREE (06-050387) 391512.60N/1234414.52W (17.25)		
664 TREE (06-050299) 391513.96N/1234417.38W (16.96)			655 TREE (06-050279) 391515.56N/1234420.38W (16.36)		
655 TREE (06-135618) 391514.09N/1234421.79W (16.25)			628 TREE (06-050485) 391516.15N/1234434.42W (16.09)		
637 TREE (06-050327) 391515.71N/1234429.88W (15.99)			635 TREE (06-046638) 391515.76N/1234430.83W (15.82)		

QUALITY

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634 TREE (06-050321) 391518.43N/1234428.47W (15.38)	620 TREE (06-046520) 391521.95N/1234432.47W (15.12)
636 TREE (06-050330) 391519.60N/1234425.43W (13.97)	654 TREE (06-050284) 391514.37N/1234420.78W (13.92)
637 TREE (06-046642) 391515.21N/1234428.99W (13.45)	661 TREE (06-135622) 391509.75N/1234421.08W (13.03)
665 TREE (06-050421) 391511.08N/1234417.38W (12.70)	621 TREE (06-050474) 391521.06N/1234431.42W (12.57)
630 TREE (06-041006) 391516.28N/1234430.39W (10.96)	651 TREE (06-050283) 391513.07N/1234422.10W (10.96)
628 TREE (06-046633) 391519.92N/1234427.76W (10.81)	672 TREE (06-046282) 391511.94N/1234411.09W (9.78)
628 TREE (06-046636) 391517.99N/1234429.08W (9.69)	635 TREE (06-050347) 391514.02N/1234428.95W (9.20)
622 TREE (06-046430) 391519.60N/1234430.43W (9.10)	666 TREE (06-046536) 391508.56N/1234416.83W (8.09)
644 TREE (06-046397) 391512.90N/1234424.49W (8.01)	626 TREE (06-046637) 391516.74N/1234430.26W (7.56)
650 TREE (06-138728) 391515.26N/1234418.51W (7.40)	650 TREE (06-050290) 391511.53N/1234422.20W (7.33)
663 TREE (06-050390) 391511.28N/1234414.84W (6.43)	637 TREE (06-050439) 391515.58N/1234424.50W (5.92)
618 TREE (06-050425) 391520.34N/1234430.12W (5.88)	623 TREE (06-050306) 391519.56N/1234428.00W (5.59)
590 TREE (06-047444) 391525.12N/1234440.47W (5.52)	606 TREE (06-053050) 391518.69N/1234438.06W (5.37)
655 TREE (06-050403) 391512.70N/1234417.22W (5.37)	683 TREE (06-050145) 391508.19N/1234406.26W (5.11)
682 TREE (06-050384) 391507.87N/1234407.06W (4.99)	630 TREE (06-046643) 391517.95N/1234425.29W (4.70)
675 TREE (06-050380) 391508.99N/1234409.43W (4.36)	588 TREE (06-050039) 391523.15N/1234442.26W (3.19)
608 TREE (06-046521) 391521.78N/1234432.32W (2.53)	629 TREE (06-050350) 391515.65N/1234426.93W (2.49)
580.71 TERRAIN (---) 391527.00N/1234442.00W (2.46)	662 TREE (06-138724) 391511.63N/1234412.86W (2.45)
580 FENCE (06-025219) 391525.57N/1234443.75W (2.33)	580 VERTICAL_POINT (06-053172) 391525.57N/1234443.75W (2.33)
621 TREE (06-050323) 391518.87N/1234427.82W (2.00)	617 TREE (06-050430) 391518.68N/1234430.14W (1.89)
631 TREE (06-050435) 391517.34N/1234423.74W (1.75)	611 TREE (06-050476) 391518.49N/1234433.40W (1.50)
633 TREE (06-046448) 391513.05N/1234426.74W (1.40)	653 TREE (06-046529) 391511.80N/1234417.03W (1.38)
607 TREE (06-050302) 391518.60N/1234435.40W (1.35)	612 TREE (06-046428) 391517.69N/1234433.37W (0.98)
638 TREE (06-046399) 391515.38N/1234421.38W (0.86)	641 TREE (06-050285) 391512.27N/1234422.76W (0.70)
647 TREE (06-050298) 391513.01N/1234418.73W (0.69)	625 TREE (06-050332) 391515.57N/1234428.19W (0.65)
641 TREE (06-046373) 391511.08N/1234423.75W (0.34)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



and/or

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

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

250 FT TREES USED OUTSIDE OF 20,000 FT AND 200 FT TREES INSIDE 20,000 FT PER THE FPT.
ORDER 8260.3 CHAP 2 APPLIED TO 969 TREE 391343N/1234107W, 1446 TREE 391213N/1233812W.
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE UKIAH ALTIMETER SETTING AND INCREASE MDA 80 FEET, INCREASE VISIBILITY LP CAT C/D 1/4 SM, INCREASE LNAV CAT C/D 1/8 SM
INCREASE CIRCLING CAT D 1/4 SM.
55 FEET TCH USED PER FPT TO CLEAR THE VGS IN CASE IT'S APPLIED TO NON PRECISION APPROACHES IN THE FUTURE.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1446 TREE 391213.00N/1233812.00W.

ORDER 8260.3, VOLUME 1, 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	THLD	TO 1000FT POINT	3.65
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	307.94
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1196
DISTANCE FROM	THLD	TO 1500FT POINT	5.85
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.48
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	307.94
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1196

THRESHOLD
COORDINATES
(IF STR-IN)

391527.44N/1234447.22W

ARP COORDINATES

391543.40N/1234513.60W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 11 DISTANCE 0.86 NM

FAF
COORDINATES

391122.19N/1233802.10W

FIX NAME
COORDINATES

REMARKS



PART E: PREPARED BY

NAME
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OFFICE
AJV-5430

DATE
08/28/2018

TITLE
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