

<b>RNAV - STANDARD</b> <b>INSTRUMENT APPROACH PROCEDURE</b> <b>TITLE 14 CFR PART 97.33</b>				Bearings, headings, courses, 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 in feet RVR.															
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW20  CLIMB TO 520 THEN CLIMBING LEFT TURN TO 2100 DIRECT IPENE AND HOLD. **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 229 FEET PER NM TO 1300.  ADDITIONAL FLIGHT DATA: FAS OBST: 309 AAO 382604N/1215548W CHART A-682. DISTANCE TO THLD FROM 250 HATH: 0.68 NM. CHART VDP AT 1.46 NM TO RW20* *LNAV ONLY. WAAS CHANNEL # 53740 REFERENCE PATH ID: W20A CHART CIRCLING ICON. LTP HAE: 2.4 M									
BESSA		IPENE (TF) (FO) (RNP 2.00)		089.52 / 15.29				4700											
SAC VORTAC (IAF)		IPENE (NOPT) (TF) (FB) (RNP 1.00)		279.29 / 14.14				2000											
IPENE (IF/IAF)		NUFKY (TF) (FB) (RNP 1.00)		200.82 / 5.91				1700											
NUFKY (FAF)		RW20 (MAP) (TF) (FO) (RNP 0.30)		200.77 / 4.86															
RW20 (MAP)		520 MSL (CA)		200.77				520											
520 MSL		IPENE (DF) (FO) (RNP 1.00)						2100											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N IPENE, RT, 200.82 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 200.77 FAF: NUFKY DIST FAF TO MAP: 4.86 THLD: 4.86 4. MIN. ALT: IPENE 2000, NUFKY 1700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1700 GS ALT AT: NUFKY 1700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: RW20 4300																MAG VAR: 13E		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @									
CATEGORY =====>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	384	7/8	267	384	7/8	267	384	7/8	267	384	7/8	267							
LPV DA**	367	7/8	250	367	7/8	250	367	7/8	250	367	7/8	250							
LNAV/VNAV DA	614	1 3/4	497	614	1 3/4	497	614	1 3/4	497	614	1 3/4	497							
LNAV MDA	720	1	603	720	1	603	720	1 3/4	603	720	1 3/4	603							
CIRCLING	720	1	603	720	1	603	960	2 1/2	843	1360	3	1243							
NOTES: CHART NOTE: NIGHT LANDING: RWY 2 NA. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5C (23F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																			
CITY AND STATE		ELEVATION: 117 TDZE: 117		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) Z RWY 20									
VACAVILLE, CA		AIRPORT NAME:		NUT TREE		RNAV (GPS) RWY 20, AMDT 1				AMDT: ORIG-B									
										DATED 07/23/2015									



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH: ATA <div><input checked="" type="checkbox"/></div> AAT <div><input type="checkbox"/></div> ALPA <div><input checked="" type="checkbox"/></div> APA <div><input checked="" type="checkbox"/></div> AOPA <div><input checked="" type="checkbox"/></div> NBAA <div><input checked="" type="checkbox"/></div> OTHER (specify) <div>ZOA, NORCAL, KSUU APCH, AMGR</div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY Digitally signed by					
NAME: JOHN THORNTON May 04, 2017				FIFO AJV-5422	DATE: 03/30/2017
APPROVED BY					
NAME: ROBERT G HAMILTON MANAGER				FIFO AJV-5422	DATE:
CHANGES: 1. CHANGED TERMINAL ROUTE FROM BESSA TO IPENE (FB) COURSE AND DISTANCE 087/15.29 TO TERMINAL ROUTE FROM BESSA TO IPENE (TF) (FO) (RNP 2.00) COURSE 089.52/15.29. 2. CHANGED TERMINAL ROUTE FROM SAC VORTAC (IAF) TO IPENE (NOPT)(FB) COURSE AND DISTANCE 277.31/14.15 TO TERMINAL ROUTE FROM SAC VORTAC (IAF) TO IPENE (NOPT)(FB) (RNP 1.00) 279.29/14.14. 3. CHANGED TERMINAL ROUTE FROM IPENE (IF/IAF) TO NUFKY COURSE AND DISTANCE 198.82/6.01TO TERMINAL ROUTE FROM IPENE (IF/IAF) TO NUFKY (TF)(FB)(RNP 1.00) 200.82/5.91. 4. ADDED TERMINAL ROUTE FROM NUFKY (FAF) TO RW20 (MAP)(TF)(FO)(RNP 0.30) COURSE AND DISTANCE 200.77/4.86. 5. ADDED TERMINAL ROUTE RWY 20 (MAP) TO 520 MSL (CA), COURSE 200.77, ALTITUDE 520. 6. ADDED TERMINAL ROUTE FROM 520 MSL TO IPENE (DF)(FO)(RNP 1.00) ALTITUDE 2100. 7. MISSED APPROACH: CHANGED "LNAV: CULEX" TO "LNAV: RW20" AND ADDED "LPV: DA" AND "LNAV/VNAV: DA". 8. CHANGED MISSED APPROACH FROM "CLIMBING LEFT TURN TO 2000 DIRECT IPENE AND HOLD" TO "CLIMB TO 520 THEN CLIMBING LEFT TURN TO 2100 DIRECT IPENE AND HOLD. **MISSED APPROACH REQUIRES MINIMUM 229 FEET PER NM TO 1300." 9. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART FAS OBST: 259 TREE 382314N/1215743W" TO "FAS OBST: 309 AAO 382604N/1215548W". 10. ADDITIONAL FLIGHT DATA: ADDED "DISTANCE TO THLD FROM 250 HATH: 0.68 NM." (SEE FORM 8260-10)					
REASONS: 1, 3, 15, 16, 21. AIRPORT MAG VAR CHANGE FROM 15E/EPOCH YEAR 2005 TO 13E/EPOCH YEAR 2020. 2. AIRPORT MAG VAR CHANGED FROM 15E TO 13E; CALCULATED COURSE AND DISTANCE BETWEEN FACILITY AND FIX (NO CHANGE TO FACILITY/FIX LAT/LONGS). 4, 5, 6, 9, 10, 28, 29, 35. IAW CURRENT CRITERIA. 7. ADDED LPV AND LNAV/VNAV LINES OF MINIMA AND REDESIGNED LNAV FINAL SEGMENT TO HAVE THE MAP AT RWY THLD. 8. MISSED APPROACH IS TURNING AND INSTRUCTIONS TO CLIMB TO 400 FT ABOVE AIRPORT ELEVATION ARE REQUIRED IN THE MISSED APPROACH; LPV 250 HAT REQUIRES A CLIMB GRADIENT WHICH IS REQUIRED TO BE IN THE MISSED APPROACH INSTRUCTIONS. 9. NEW FAS OBSTACLE. 11. VDP ESTABLISHED; NEW SURVEY, THERE ARE NO STRAIGHT-IN VISUAL SURFACE 20:1 PENS. 12. VDP IS ONLY APPLICABLE TO THE LNAV. 13, 18, 22, 23, 24, 34. ADDED LINES OF MINIMA. 14. NEW CIRCLING CRITERIA APPLIED. 17. FAF MOVED DUE TO APPLICATION OF CURRENT CRITERIA AND MAP IS NOW RWY 20 THRESHOLD. 19. GS ANGLE AND TCH REQUIRED FOR ADDED LINES OF MINIMA AND THE STRAIGHT-IN VISUAL SURFACE AREA DOES NOT HAVE ANY 34:1 PENETRATIONS. 20. MAP CHANGED FROM CULEX TO RWY 20 THRESHOLD. (SEE FORM 8260-10)					

QUALITY  
16  
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**NOTES, (CONT.):**

**CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SAC VORTAC ON AIRWAY RADIALS 195 CW 329**

**CHART NOTE: CIRCLING NA W OF RWY 2-20.**

QUALITY  
16  
CHECKED

CITY AND STATE

VACAVILLE, CA

**ELEVATION: 117**

**TDZE: 117**

AIRPORT NAME:

NUT TREE

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

**RNAV (GPS) RWY 20, AMDT 1**

SUP: **RNAV (GPS) Z RWY  
20**

AMDT: **ORIG-B**

DATED: **07/23/2015**

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div><div>ATA<div></div></div><div>AAT<div></div></div><div>ALPA<div></div></div><div>APA<div></div></div><div>AOPA<div></div></div><div>NBAA<div></div></div><div>OTHER (specify)<div></div></div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
<div>CHANGES:</div> <div>CHANGES CONT.</div> <div>11. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 1.46 NM TO RW20*."</div> <div>12. ADDITIONAL FLIGHT DATA: ADDED " *LNAV ONLY".</div> <div>13. ADDITIONAL FLIGHT DATA: ADDED "WAAS CHANNEL # 53740", "REFERENCE PATH ID: W20A", AND "LTP HAE: 2.4M".</div> <div>14. ADDITIONAL FLIGHT DATA: ADDED "CHART CIRCLING ICON".</div> <div>15. CHANGED 2. COURSE FROM 198.82 TO 200.82.</div> <div>16. CHANGED 3. FAC FROM 198.77 TO 200.77.</div> <div>17. CHANGED 3 DIST FAF TO MAP: 4.49 THLD 4.79 TO DIST FAF TO MAP: 4.86 THLD: 4.86.</div> <div>18. ADDED 6. MIN GS INCPT: 1700 GS ALT AT: NUFKY 1700.</div> <div>19. ADDED 7. GS ANGLE: 3.00 AND TCH 40.0 AND CHANGED "34:1 IS NOT CLEAR" TO "34:1 IS CLEAR".</div> <div>20. CHANGED MSA FROM "CULEX 4300" TO "RW20 4300".</div> <div>21. CHANGED MAG VAR: 15E EPOCH YEAR: 2005 TO MAG VAR: 13E EPOCH YEAR: 2020.</div> <div>22. MINIMUMS: ADDED LPV DA** CATS A-D DH 367, VIS 7/8, HAT 250.</div> <div>23. MINIMUMS: ADDED LPV DA CATS A-D DH 384, VIS 7.8, HAT 267.</div> <div>24. MINIMUMS: ADDED LNAV/VNAV DA CATS A-D DH 614, VIS 1 3/4, HAT 497.</div> <div>25. MINIMUMS: CHANGED LNAV DA CATS A AND B MDA/HAT FROM 520/403 TO 720/603 , CHANGED CAT C MDA/VIS/HAT FROM 520/2 1/4/403 TO Y20/1 3/4/603, AND ADDED (SEE FORM 8260-10)</div>					
<div>REASONS:</div> <div>REASONS CONT.</div> <div>25. NEW FINAL CONTROLLING OBSTACLE AND ADDED CAT D.</div> <div>26. NEW STRAIGHT-IN MINIMUMS, APPLICATION OF NEW CIRCLING CRITERIA, AND ADDED CAT D.</div> <div>27. HELICOPTER VISIBILITY REDUCTION NOTE WAS IMPLEMENTED WITH P-NOTAM FDC 5/9713; RWY 20 HAS HAD A SURVEY HAD THERE ARE NO STRAIGHT-IN VISUAL SURFACE PENETRATIONS; RESTRICTION NO LONGER REQUIRED.</div> <div>30. 31. SECONDARY ALTIMETER SETTING NOTE NOT REQUIRED TO BE PUBLISHED.</div> <div>32. RADIALS EXCEED ALLOWED CRITERIA.</div> <div>33. NEW MINIMUMS.</div>					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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CITY AND STATE VACAVILLE, CA	ELEVATION: 117 AIRPORT NAME: NUT TREE	TDZE: 117	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, AMDT 1	SUP: RNAV (GPS) Z RWY 20
					AMDT: ORIG-B
					DATED: 07/23/2015

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div><div>ATA<div></div></div><div>AAT<div></div></div><div>ALPA<div></div></div><div>APA<div></div></div><div>AOPA<div></div></div><div>NBAA<div></div></div><div>OTHER (specify)<div></div></div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
<div>CHANGES:</div> <div>CHANGES CONT.</div> <div>CAT D MDA/VIS/HAT 720/1 3/4/603.</div> <div>26. MINIMUMS: CHANGED CIRCLING CAT A MDA/VIS/HAA FROM 560/1/443 TO 720/1/603, CHANGED CIRCLING CAT B MDA/VIS/HAA FROM 580/1/463 TO 720/1/603, CHANGED CAT C MDA/VIS/HAA FROM 580/1 1/2/463 TO 960/2 1/2/843, AND ADDED CAT D MDA/VIS/HAA 1360/3/1243.</div> <div>27. DELETED NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.</div> <div>28. DELETED NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.</div> <div>29. ADDED PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).</div> <div>30. DELETED NOTE: IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE DAVIS UNIVERSITY ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET.</div> <div>31. DELETED NOTE: BARO-VNAV AND VDP NA WHEN USING DAVIS ALTIMETER SETTING.</div> <div>32. CHANGED PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT SAC VORTAC ON AIRWAY RADIALS 216 CW 329" TO "PROCEDURE NA FOR ARRIVALS AT SAC VORTAC ON AIRWAY RADIALS 195 CW 329".</div> <div>33. ALTERNATE MINIMUMS: DELETED "@ NA WHEN LOCAL WEATHER NOT AVAILABLE" AND ADDED CAT C 900-2 1/2, CAT D 1300-3.</div> <div>34. CHANGED PROCEDURE NAME FROM RNAV (GPS) Z RWY 20 TO RNAV (GPS) 20.</div> <div>35. CHANGED NOTE FROM "CIRCLING NA WEST OF RWY 2-20" TO "CIRCLING NA W OF RWY 2-20".</div>					
<div>REASONS:</div>					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KVCB
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	382300.9630N
LTP/FTP LONGITUDE	1215723.9355W
LTP/FTP ELLIPSOIDAL HEIGHT	+00024
FPAP LATITUDE	382146.7840N
FPAP LONGITUDE	1215826.8480W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1320
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	40.0

**CRC REMAINDER**

1ADA8557

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00340
FPAP ORTHOMETRIC HEIGHT	+00340

QUALITY  
16  
CHECKED

CITY AND STATE

VACAVILLE, CA

ELEVATION: 117

TDZE: 117

AIRPORT NAME:

NUT TREE

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 20, AMDT 1

SUP: RNAV (GPS) Z RWY  
20

AMDT: ORIG-B

DATED: 07/23/2015

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>
OTHER (specify) <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					



## STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

## PART - A OBSTRUCTION DATA

1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL	ROC	ALT. ADJUSTMENTS		MIN. ALT.					
FEEDER		BESSA		IPENE		1. AAO		383327.00N/1220700.00W		2648 (4E)	2000			4700					
						2. TERRAIN		383327.00N/1220700.00W		2448 (2400)		AS1500		3900					
INITIAL		SAC VORTAC		IPENE		3. TOWER (06-000739)		382944.46N/1214828.26W		368 (2C)	1000	AT632		2000					
						4. TERRAIN		382857.00N/1214851.00W		119 (100)		AS1500		1600					
INTERMEDIATE		IPENE (IF/IAF)		NUFKY		3. TOWER (06-000739)		382944.46N/1214828.26W		368 (2C)	500	AT832		1700					
						5. TERRAIN		383017.73N/1215335.45W		109 (100)		AS1500		1600					
FINAL: LPV		NUFKY		RW20		6. TREE (KVCBT000503)		382311.53N/1215721.28W		138 (1A)	34:1	MA17		384/267					
FINAL: LPV		NUFKY		RW20		6. TREE (KVCBT000503)		382311.53N/1215721.28W		138 (1A)	34:1			367/250					
FINAL: LNAV/VNAV		NUFKY		RW20		7. TREE		382312.73N/1215743.18W		259 (2C)	161	AC20 MA169		614/497					
FINAL: LNAV		NUFKY		RW20		8. AAO		382603.78N/1215548.27W		309 (2C)	250	MA161		720					
2. HOLD-IN-LIEU-OF-PT		IPENE		P-4		9. TOWER (06-000599)		383520.00N/1214330.00W		576 (5D)	1000	AT424		2000					
						10. TERRAIN		382933.00N/1215448.00W		161 (161)		AS1500		1700					
3. MISSED APPROACH	MAP:		DA / DA / DA /		IPENE		11. TOWER (06-000635)		381909.12N/1215934.61W		1048 (2C)	ASC		2100					
			RW20				12. TREE		382236.13N/1215917.55W		729 (2C)	ASC	AC20	2100					
	ELEV:		185/175/448/620				11. TOWER (06-000635)		381909.12N/1215934.61W		1048 (2C)	1000		2100					
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	603	14. TREE		382126.62N/1215902.95W		274 (1A)	300	SI	720				
CATEGORY B		1.5 NM			450		603	15. TREE		382117.32N/1215908.42W		277 (1A)	300	SI	720				
CATEGORY C		1.7 NM			450		843	16. TOWER (06-022696)		382013.51N/1220012.20W		660 (1A)	300		960				
CATEGORY D		2.3 NM			550		1243	11. TOWER (06-000635)		381909.12N/1215934.61W		1048 (2C)	300		1360				
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES						PRIMARY NAVAID: RW20													
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		AAO		327/20.1		3252 (4A)		4300											
CITY AND STATE				ELEVATION: 117				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
VACAVILLE, CA				AIRPORT NAME:				RNAV				RNAV (GPS) RWY 20, AMDT 1				AWP			
				NUT TREE															

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:  PRECIPITOUS TERRAIN EVALUATION COMPLETED.  ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.81NM CAT C: 2.84NM CAT D: 3.73NM  SEE ATTACHED AIRSPACE LETTER. RASS PRESSURE PATTERNS SAME KVCB 117, KEDU 69 RA = 35.1.  AIRPORT MAG VAR CHANGE FROM 15E (EPOCH YEAR 2005) TO 13E (EPOCH 2020).  PER WFPT, ADD LNAV/VNAV AND LPV WITH AND WITHOUT MISSED APPROACH CLIMB GRADIENT AND ADD CAT D MINIMUMS.  25.49 DEGREE BANK ANGLE USED IN MISSED APPROACH SEGMENT.  CIRCLING NA WEST OF RWY 2-20 TO AVOID HIGHER TERRAIN/RETAIN LOWER MINIMUMS.  OBST #13 IDENTIFIER: KVCBT001051 OBST #14 IDENTIFIER: KVCBT001084  LNAV/VNAV AND LNAV MISSED OBST: 729 MSL TREE 382236.13N/1215917.55W  AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY (2012-2016).  CRITICAL TEMPERATURES CRITICAL LOW CRITICAL HIGH ACT APT ISA DELTA ISA LOW -5C (23F) +54C(130F) -5C +14.77 -19.77C CRITICAL LOW TEMP BASED ON ACT DESCENT RATE: STANDARD TEMP 955 HIGH TEMP 1115 TEMPERATURE LIMITS, DELTA ISA LOW, AND DESCENT VALUES DERIVED FROM AFS-400 CALCULATOR.  100FT VEGETATION USED PER WFPT.  VISUAL PORTION OF FINAL EVALUATED IAW AFS-400 MEMORANDUM DATED 11/04/2014.  ORDER 8260.3, VOL 1, VISUAL PORTION OF FINAL PENETRATIONS: R02 20:1 PENS 224 TREE (KVCBT000549) 382207.70N/1215803.96W (40.65) 222 TREE (KVCBT000554) 382206.45N/1215803.87W (33.59) 130 POLE (06-026170) 382221.55N/1215759.90W (13.89) 189 TREE (KO450023) 382207.92N/1215803.87W (6.78)  SECONDARY ALTIMETER SETTING NOTE FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING IS NOT RECEIVED USE DAVIS UNIVERSITY ALTIMETER SETTING: INCREASE LPV DA TO 420 FT AND ALL VISIBILITIES 1/8 SM; INCREASE LPV** DA TO 403 FT AND ALL VISIBILITIES 1/8 SM, INCREASE ALL MDAS 40 FT AND VISIBILITY CAT C 1/4 SM, CAT D 1/8 SM.			
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING							
NCT TRACON ZOA ARTCC SUU APP CON				N W S	OTHER: ASOS		SOURCE:KVCB / KEDU						
				F A A			DISTANCE: 0 / 12.34						
				A / C			HOURS REMOTE OPERATION: 24 / 24/YES						
SATISFACTORY ON:			X	V H F	X	U H F		H F	LOCATION: KVCB		ADJUSTMENT: 0 / 36		
4. MONITOR STATUS	PRIMARY NAVAID:												
	MONITOR POINT:												
	HRS OPTN:	CAT 1		CAT 3									
5. APPROACH & RUNWAY LIGHTING		ALS											
		(S) SALS											
		MALS											
		HIRL											
	X	MIRL 02 (PCL), 20 (PCL)											
	X	REIL 02 (PCL), 20 (PCL)											
		TDZ											
		C/LINE											
	X	OTHER (SPECIFY) PAPI-2L 02 (PCL), 20 (PCL)											
6. RUNWAY MARKINGS		BASIC											
		ALL WEATHER											
		INSTRUMENT NPI-G 02, 20											
7. RUNWAY VISUAL RANGE		APPROACH											
		MIDFIELD											
		ROLL OUT											
8. GLIDE PATH		GP ANGLE: 3.00					ELEV RWY THRESHOLD:111.7						
		DISTANCE FROM RWY:					ELEV GP ANTENNA:						
							THRESHOLD CROSSING HEIGHT:40.0						
9. FINAL APPROACH COURSE AIMING			X	RUNWAY THRESHOLD							FT. FROM THRESHOLD		
			X	ON CENTERLINE							FT. FROM CENTERLINE		
10. WAIVERS: NONE													
PART D - PREPARED BY: JOHN THORNTON										DATE: 03/30/2017			
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5422		CONT.	



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450							
CATEGORY D	2.3 NM		550							
CATEGORY E	4.5 NM		550							

[illegible]

CITY AND STATE <b>VACAVILLE, CA</b>	<b>ELEVATION: 117</b> <b>AIRPORT NAME:</b> <b>NUT TREE</b>	FACILITY  <b>RNAV</b>	PROCEDURE AND AMENDMENT NO: <b>RNAV (GPS) RWY 20, AMDT 1</b>	REGION  <b>AWP</b>
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PART B - SUPPLEMENTAL DATA											
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING				
SATISFACTORY ON:					N W S	OTHER:		SOURCE:			
					F A A			DISTANCE:			
					A / C			HOURS REMOTE OPERATION:			
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:		
4. MONITOR STATUS		PRIMARY NAVAID:									
		MONITOR POINT:									
		HRS	CAT 1								
		OPTN:	CAT 3								
5. APPROACH & RUNWAY LIGHTING										ALS	
										(S) SALS	
										MALS	
										HIRL	
										MIRL	
										REIL	
										TDZ	
										C/LINE	
6. RUNWAY MARKINGS										BASIC	
										ALL WEATHER	
										INSTRUMENT	
7. RUNWAY VISUAL RANGE										APPROACH	
										MIDFIELD	
										ROLL OUT	
8. GLIDE PATH		GP ANGLE:					ELEV RWY THRESHOLD:				
		DISTANCE FROM RWY:					ELEV GP ANTENNA:				
							THRESHOLD CROSSING HEIGHT:				
9. FINAL APPROACH COURSE AIMING					RUNWAY THRESHOLD					FT. FROM THRESHOLD	
					ON CENTERLINE					FT. FROM CENTERLINE	
10. WAIVERS:											
PART D - PREPARED BY:						DATE:					
TITLE:						OFFICE:					

PART C - REMARKS:  
**CONTINUED.**  
  
**MISSED APPROACH OBSTACLES CONT.**  
**PRIMARY:**  
**13. TERRAIN 382239.13N/1215917.55W 629 (600) AS1500 2100**

QUALITY  
16  
CHECKED