

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										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		LNAV: LEVGE												
CYCLE				HUVAD (TF) (FB) (RNP 2.00)				351.83 / 27.03				5100		CLIMB TO 3200 DIRECT SIYOD AND ON TRACK 197.32 TO MELME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 016.02 INBOUND. CHART FAS OBST: 1035 TREE 665644N/1512724W. CHART VDP AT 1.38 NM TO LEVGE. CHART CIRCLING ICON. KIYEP TO RW20: 3.00/52.0. FAC CROSSES RWY C/L EXTENDED 3007 FT FROM THLD.												
TEGDE				UMYAR (TF) (FB) (RNP 2.00)				144.28 / 7.14				8300														
UMYAR				IYOLU (TF) (FB) (RNP 2.00)				144.94 / 8.73				7100														
HUVAD (IAF)				NOYIR (TF) (FB) (RNP 1.00)				274.39 / 10.32				4300														
IYOLU (IAF)				NOYIR (TF) (FB) (RNP 1.00)				224.07 / 7.03				4300														
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NOYIR 3. FAC: 191.37 FAF: KIYEP DIST FAF TO MAP: 4.85 THLD: 5.34 4. MIN. ALT: NOYIR 4300, WUTOM 3200, KIYEP 2400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 20:1 IS CLEAR 34:1 IS NOT CLEAR 8. MSA FROM: LEVGE 7000																	MAG VAR: 16E 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											
LNAV MDA	1300	1	653	1300	1	653	1300	1 7/8	653	1300	1 7/8	653														
CIRCLING	1300	1	653	1300	1	653	1320	2	673	1320	2 1/4	673														
NOTES: CHART NOTE: CIRCLING NA EAST OF RWY 2-20. PBN REQUIREMENTS NOTE: RNP APCH. CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																										
CITY AND STATE							ELEVATION: 647 TDZE: 647			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) RWY 19									
BETTLES, AK							AIRPORT NAME: BETTLES			RNAV (GPS) RWY 20, AMDT 1			AMDT: ORIG-A				DATED 02/06/2014									



ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE <div style="text-align: center;">5/24/2018</div>	
COORDINATED WITH: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div>A4A <input type="checkbox"/></div> <div>ALPA <input checked="" type="checkbox"/></div> <div>AOPA <input checked="" type="checkbox"/></div> <div>APA <input type="checkbox"/></div> <div>HAI <input type="checkbox"/></div> <div>NBAA <input checked="" type="checkbox"/></div> <div>OTHER (specify) <input checked="" type="checkbox"/> ZAN, FAI FSS, AMGR</div> </div>			
FLIGHT CHECKED BY <i>Digitally signed by</i>			
NAME: PENDING		ADOLFO D URRUTIA Mar 07, 2018	FIFO FICO DATE: 5/24/2018
DEVELOPED BY <i>Digitally signed by</i>			
NAME: IVAN BLANCO		IVAN BLANCO Feb 09, 2018	FIFO AJV-5432 DATE: 02/09/2018
APPROVED BY			
NAME: PATRICK MULQUEEN		<i>Digitally signed by</i> ADOLFO D URRUTIA MANAGER Mar 07, 2018	FIFO AJV-5430 DATE:
CHANGES: <div style="margin-top: 10px;"> <ol style="list-style-type: none"> 1. CHANGED TERMINAL ROUTE COURSE CYCLE TO HUVAD FROM 347.83 TO 351.83. 2. CHANGED TERMINAL ROUTE TEGDE TO OCUKU FROM 139.98/7.11 TO TEGDE TO UMYAR 144.28/7.14. 3. CHANGED TERMINAL ROUTE OCUKU TO IYOLU FROM 141.18/8.77 TO UMYAR TO IYOLU 144.94/8.73. 4. CHANGED TERMINAL ROUTE HUVAD TO NOYIR FROM 272.78/10.00 TO 274.39/10.32. 5. CHANGED TERMINAL ROUTE IYOLU TO NOYIR FROM 220.22/6.50 TO 224.07/7.03. 6. CHANGED TERMINAL ROUTE NOYIR TO WUTOM FROM 212.51/3.50 TO 216.26/4.46 7. CHANGED TERMINAL ROUTE WUTOM TO KIYEP FROM 212.51/4.00 TO 214.29/2.52. 8. MOVED FIX KIYEP AND CHANGED TERMINAL ROUTE KIYEP TO LEVGE FROM 187.37 TO 191.37. 9. CHANGED MA FROM CLIMB TO 3200 DIRECT SIYOD AND ON TRACK 193.07 TO MELME AND HOLD TO CLIMB TO 3200 DIRECT SIYOD AND ON TRACK 197.32 TO MELME. 10. CHANGED ADDITIONAL FLIGHT DATA: MA HOLD FROM HOLD S, RT, 012.02 INBOUND TO HOLD S, RT, 017.32 INBOUND; CHART FAS OBST FROM 1149 TREE TO 1035 TREE; CHARTED VDP AT 1.38 NM TO LEVGE; FAC CROSSES RWY C/L EXTENDED FROM 3000 TO THLD TO 3007 FT FROM THLD. 11. LOWERED LNAV MDA/HAT ALL CATS FROM 1360/713 TO 1300/653. 12. LOWERED CIRCLING MDA/HAA FROM 1360/713 ALL CATS TO CAT A/B 1300/653, CAT C/D 1320/673 AND CHARTED CIRCLING ICON. (SEE FORM 8260-10) </div>			
REASONS: <div style="margin-top: 10px;"> <ol style="list-style-type: none"> 1-8. ARPT MAG VAR CHANGE FROM 20E TO 16E, FIXES NOIYR, WUTOM AND KIYEP MOVED, (FIX WUTOM MOVED 1.48 NM BUT NAME RETAINED PER ATC OPERATIONAL REQUEST. REPLACED FIX OCUKU WITH UMYAR PER ATC OPERATIONAL REQUEST. 9. RESULT OF SIYOD FIX MOVE. 10-12. MA TRACK TO FIX CHANGE, OBSTACLE DATA CHANGES, REMOVAL OF 20:1 PENETRATIONS AND APPLICATION OF NEW CIRCLING AREA. 13-14. IAW 8260.19H CHAPTER 8 AND 8260.3C CHAPTER 2. 15. PREVIOUS FC RESULT WITH OLD 2.92 VDA. 16. NEW EVALUATION RESULT. </div>			

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

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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
NOYIR (IF)	WUTOM (TF) (FB) (RNP 1.00)	216.26 / 4.46	3200
WUTOM	KIYEP (TF) (FB) (RNP 1.00)	214.29 / 2.66	2400
KIYEP (FAF)	LEVGE (MAP) (TF) (FO) (RNP 0.30)	191.37 / 4.85	
LEVGE (MAP)	1047 MSL (CA)	191.37	
1047 MSL	SIYOD (DF) (FB) (RNP 1.00)		
SIYOD	MELME (TF) (FO) (RNP 1.00)	197.32 / 11.02	3200

QUALITY
16
CHECKED

CITY AND STATE
BETTLES, AK

ELEVATION: 647 TDZE: 647
 AIRPORT NAME:
 BETTLES

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 20, AMDT 1
 5/24/2018

SUP: RNAV (GPS) RWY 19
 AMDT: ORIG-A
 DATED: 02/06/2014

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
A4A <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>	HAI <div><input type="checkbox"/></div>	NBAA <div><input type="checkbox"/></div>
OTHER (specify) <div><input type="checkbox"/></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>13. DELETED CHART NOTE: DME/DME RNP-0.30 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH.</div> <div>14. CHANGED NOTE HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED TO RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.</div> <div>15. DELETED PROFILE NOTE: DESCENT ANGLE NA.</div> <div>16. UPDATED MSA BRG/DIST AND ELEVATION FROM 008/28.0 7100 TO 012/28.5 7000.</div>					
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	CYCLE	HUVAD	1. AAO	665533.00N/1504548.00W	2953 (5E)	2000	AT147	5100	
			2. TERRAIN	665533.00N/1504548.00W	2753 (2800)		AS1500	4300	
FEEDER	TEGDE	UMYAR	3. AAO	672000.00N/1510142.00W	5401 (6G)	2000	AC296 AT603	8300	
			4. TERRAIN	672000.00N/1510142.00W	5201 (5200)		AS1500	6700	
FEEDER	UMYAR	IYOLU	5. AAO	671639.00N/1505806.00W	5096 (5E)	2000		7100	
			6. TERRAIN	671633.00N/1505736.00W	4873 (4900)		AS1500	6400	
INITIAL	HUVAD	NOYIR	7. AAO	665800.00N/1505418.00W	2618 (5E)	1000	AT602 PR80	4300	
			8. TERRAIN	665845.00N/1505530.00W	2195 (2200)		AS1500	3700	
INITIAL	IYOLU	NOYIR	9. AAO	611003.00N/1510403.00W	2596 (6G)	1000	PR130 AC296 AT278	4300	
			10. TERRAIN	670557.00N/1511124.00W	1608 (1600)		AT1500	3100	
INTERMEDIATE	NOYIR	WUTOM	11. AAO	670557.00N/1511112.24W	1808 (6G)	500	AC296 DG596	3200	
			12. TERRAIN	670448.00N/1511524.00W	1378 (1400)		AS1500	2900	
INTERMEDIATE: STEPDOWN	WUTOM	KIYEP	13. AAO	665857.00N/1511624.00W	1808 (6G)	500	SA-402 AC296	2300	
			14. TERRAIN	670257.00N/1512330.00W	932 (900)		AS1500	2400	
FINAL: LNAV	KIYEP	LEVGE	15. TREE (02-182581)	665643.94N/1512723.79W	1035 (1A)	250		1300	
2. PROCEDURE TURN									
3. MISSED APPROACH	MAP: LEVGE	MELME				ASC		3200	
	ELEV: 1200		16. AAO	664439.00N/1515400.00W	903 (4D)	1000		2000	
			17. TERRAIN	664530.00N/1515230.00W	650 (700)		AS1500	2200	
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED 350	ACTUAL 653	18. TOWER (02-000204)	665335.48N/1513349.40W	766 (1A)	300	SI 1300	
CATEGORY B	1.5 NM	450	653	19. TREE (02-182667)	665645.61N/1512933.24W	793 (1A)	300	SI 1300	
CATEGORY C	1.7 NM	450	673	20. TREE (02-182650)	665655.71N/1512719.28W	1014 (1A)	300	1320	
CATEGORY D	2.3 NM	550	673	20. TREE (02-182650)	665655.71N/1512719.28W	1014 (1A)	300	1320	
CATEGORY E	4.5 NM	550							
5. MINIMUM SAFE ALTITUDES				PRIMARY NAV AID: LEVGE					
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	012/28.4	5988 (5E)	7000					
CITY AND STATE	ELEVATION: 647			FACILITY	PROCEDURE AND AMENDMENT NO:			REGION	
BETTLES, AK	AIRPORT NAME: BETTLES			RNAV	RNAV (GPS) RWY 20, AMDT 1			AAL	
					5/24/2018				

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. 3. BACK UP ALTIMETER EVALUATION, PAKP/PABT 75 NM, 24 HOURS, SVC A. NOT CHARTED AT FPO REQUEST. VGSI 3.00/52 ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.83NM CAT C: 2.87NM CAT D: 3.75NM NO ADDITIONAL AIRSPACE REQUIRED. VISUAL PORTION OF FINAL PENETRATIONS: 34:1 678 TREE (02-175164) 665517.52N/1513054.12W (12.20) 673 TREE (02-175284) 665517.61N/1513055.69W (7.96) 674 TREE (02-173025) 665518.22N/1513056.24W (7.76) 673 TREE (02-175154) 665517.17N/1513053.04W (7.41) 665 TREE (02-175156) 665517.07N/1513102.18W (5.39) 660 TREE (02-174992) 665516.70N/1513105.91W (3.66) 660 TREE (02-175163) 665517.17N/1513106.94W (3.12) 665 TREE (02-174993) 665516.96N/1513056.65W (2.20) 659 TREE (02-174994) 665516.76N/1513104.47W (1.61) 662 TREE (02-174193) 665516.19N/1513056.39W (0.99) 663 TREE (02-175714) 665516.62N/1513055.46W (0.32) TAA NOT DEVELOPED PER ORIGINAL ATC/FPT REQUEST. VEGETATION HEIGHT IS 50 FT. LP, LPV, LNAV/VNAV NOT DEVELOPED DUE CRITERIA/GQS PENETRATIONS.															
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																	
FAI FSS ZAN ARTCC						N W S		OTHER: ASOS												SOURCE: PABT					
						F A A														DISTANCE:					
						A / C														HOURS REMOTE OPERATION: 24/YES					
SATISFACTORY ON:				LOCATION: PABT				ADJUSTMENT: 0																	
X		V H F		X		U H F														H F					
4. MONITOR STATUS		PRIMARY NAVAID:																							
		MONITOR POINT:																							
		HRS OPTN:		CAT 1				CAT 3																	
5. APPROACH & RUNWAY LIGHTING				ALS																					
				(S) SALS																					
		X		MALSR 02																					
				HIRL																					
		X		MIRL 02, 20																					
				REIL																					
				TDZ																					
				C/LINE																					
		X		OTHER (SPECIFY) VASI-4L 02 (PCL), 20 (PCL)																					
6. RUNWAY MARKINGS		BASIC																							
		ALL WEATHER PIR-F 02, 20																							
		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 3007						FT. FROM THRESHOLD													
				X		ON CENTERLINE						FT. FROM CENTERLINE													
10. WAIVERS: NONE																									
PART D - PREPARED BY: IVAN BLANCO										DATE: 02/09/2018															
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5432															

