

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														MISSED APPROACH						
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW14 CLIMB TO 3900 DIRECT EVHAP AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 316.09 INBOUND. CHART FAS OBST: 1480 TOWER 411701N/0954634W. 1558 AAO 412002N/0954959W. DISTANCE TO THLD FROM 250 HAT: 0.68 NM. CHART VDP AT 1.47 NM TO RW14* *LNAV ONLY. WAAS CHANNEL # 45841 REFERENCE PATH ID: W14A CHART CIRCLING ICON. LTP HAE: 350.3 M						
QECQI (IF/IAF)				KAJQU (TF) (FB) (RNP 1.00)				135.87 / 7.00				2900								
KAJQU (FAF)				RW14 (MAP) (TF) (FO) (RNP 0.30)				135.93 / 5.09												
RW14 (MAP)				1495 MSL (CA)				135.93				3900								
1495 MSL				EVHAP (DF) (FO) (RNP 1.00)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 5E EPOCH YEAR: 2000						
2. HOLD NW QECQI, RT, 135.87 INBOUND, 3600 FT. IN LIEU OF PT (IAF)																				
3. FAC: 135.93 FAF: KAJQU DIST FAF TO MAP: 5.09 THLD: 5.09																				
4. MIN. ALT: QECQI 3600, KAJQU 2900																				
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																				
6. MIN GS INCPT: 2900 GS ALT AT: KAJQU 2900 OM: _____ MM: _____ IM: _____																				
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR																				
8. MSA FROM: _____																				
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	1495	3/4	250	1495	3/4	250	1495	3/4	250	1495	3/4	250								
LNAV/VNAV DA	1816	1 5/8	571	1816	1 5/8	571	1816	1 5/8	571	1816	1 5/8	571								
LNAV MDA	1740	1	495	1740	1	495	1740	1 3/8	495	1740	1 3/8	495								
CIRCLING	1780	1	535	1780	1	535	1780	1 1/2	535	1880	2	635								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).																				
CITY AND STATE COUNCIL BLUFFS, IA				ELEVATION: 1245 TDZE: 1245 AIRPORT NAME: COUNCIL BLUFFS MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 3						SUP: AMDT: 2 DATED 07/29/2010				



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
ROUTINE					
COORDINATED WITH:					
ATA <div></div>		AAT <div></div>		ALPA <div>X</div>	
APA <div></div>		AOPA <div>X</div>		NBAA <div>X</div>	
OTHER (specify) <div>ZMP, OMA APP CON</div>					
FLIGHT CHECKED BY					
NAME: BILL SETTLEMIRE <div>Digitally signed by DION E LANCIA</div> <div>Jan 31, 2018</div>				FICO FIFO DATE: 01/25/2018	
DEVELOPED BY					
NAME: <div>Digitally signed by THOMAS L KIRKPATRICK</div> <div>THOMAS L KIRKPATRICK</div> <div>Oct 25, 2017</div>				FIFO AJV-5423 DATE: 10/25/2017	
APPROVED BY					
NAME: <div>Digitally signed by JULIE A. MORGAN</div> <div>DION E LANCIA</div> <div>MANAGER</div>				FIFO AJV-5420 DATE:	
CHANGES: Jan 31, 2018					
<div>1. ADDED LPV AND LNAV/VNAV LINES OF MINIMA AND ALL ASSOCIATED NOTES.</div> <div>2. REMOVED UJWIG AND OFOYI INITIALS.</div> <div>3. CHANGED QECQI (IF/IAF) TO KAJQU (FAF) DISTANCE FROM 6.07 TO 7.00.</div> <div>4. CHANGED FAC FROM 135.92 TO 135.93, DIST FAF TO MAP/THLD FROM 5.05/5.05 TO 5.09/5.09.</div> <div>5. LNAV MDA/HAT CHANGED FROM 1780/535 TO 1740/495 ALL CATS.</div> <div>6. CIRCLING MDA/HAA: CHANGED CAT C FROM 1840/587 TO 1780/535, CAT D FROM 1840/587 TO 1880/635. ALSO ADDED CIRCLING ICON.</div> <div>7. VISIBILITIES: CHANGED LNAV CAT C FROM 1 1/2 TO 1 3/8, CAT D FROM 1 3/4 TO 1 3/8.</div> <div>8. CHANGED HELICOPTER VISIBILITY NOTE FROM NA TO NA BELOW 3/4 SM.</div> <div>9. ADDED PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.</div> <div>10. REMOVED ALL REFERENCE TO BACK-UP ALTIMETER SETTING.</div> <div>11. CHANGED FAS OBST FROM 1485 AAO TO 1480 TOWER, AND 7:1 OBST FROM 1570 AAO TO 1558 AAO.</div> <div>12. ADDED VDP.</div> <div>13. REMOVED VDA.</div>					
REASONS:					
<div>1. AIRPORT REQUEST.</div> <div>2. NO LONGER MEETS CRITERIA (DTA).</div> <div>3. QECQI FOR DTA, KAJQU NEW PFAF LOCATION.</div> <div>4. NEW PFAF LOCATION.</div> <div>5. APPLICATION OF NEW CRITERIA.</div> <div>6. NEW CIRCLING AREA CRITERIA APPLIED.</div> <div>7. NEW VISIBILITY TABLE APPLIED.</div> <div>8. NOTE FORMAT.</div> <div>9. NOT COINCIDENT.</div> <div>10. LOCAL WEATHER TRANSMITTED ON WMSCR AND DEEMED RELIABLE.</div> <div>11. OBSTACLE DATA BASE UPDATED.</div> <div>12. 20:1 VISUAL SURFACE IS CLEAR.</div> <div>13. VERTICALLY GUIDED PROCEDURE.</div>					

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

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TAA

	FROM	TO	ALT
1.	046/30 CW 226/30 (NOPT)	QECQI (IF/IAF) (FB)	3600
2.	226/30 CW 046/30	226/15 CW 046/15	3900
3.	226/15 CW 046/15	QECQI (IF/IAF) (FO)	3600

QUALITY
16
CHECKED

CITY AND STATE
COUNCIL BLUFFS, IA

ELEVATION: 1245 TDZE: 1245
AIRPORT NAME:
COUNCIL BLUFFS MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 14, AMDT 3

SUP:
AMDT: 2
DATED: 07/29/2010

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

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR 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.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCBF
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	411545.2715N
LTP/FTP LONGITUDE	0954551.4180W
LTP/FTP ELLIPSOIDAL HEIGHT	+03503
FPAP LATITUDE	411436.0030N
FPAP LONGITUDE	0954437.0560W
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	1640
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 D5FCFCE3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03779
FPAP ORTHOMETRIC HEIGHT	+03779

QUALITY
16
CHECKED

CITY AND STATE COUNCIL BLUFFS, IA	ELEVATION: 1245 TDZE: 1245 AIRPORT NAME: COUNCIL BLUFFS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 3	SUP:
				AMDT: 2
				DATED: 07/29/2010

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>
NBAA <div><input type="checkbox"/></div>		OTHER (specify) <div><input type="checkbox"/></div> <div></div>			
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.		
STRAIGHT-IN AREA		046/30 CW 226/30	QECQI	1. TOWER (31-000362)	411825.00N/0960138.00W	2548 (4D)	1000		3600		
				2. TERRAIN	414409.00N/0952509.00W	1480 (1500)		AS1500	3000		
STRAIGHT-IN AREA		226/30 CW 046/30	226/15 CW 046/15	3. TOWER (19-000450)	412039.34N/0951521.97W	2836 (5D)	1000		3900		
				2. TERRAIN	414409.00N/0952509.00W	1480 (1500)		AS1500	3000		
STRAIGHT-IN AREA		226/15 CW 046/15	QECQI	1. TOWER (31-000362)	411825.00N/0960138.00W	2548 (4D)	1000		3600		
				4. TERRAIN	411848.00N/0961406.00W	1375 (1400)		AS1500	2900		
INTERMEDIATE		QECQI (IF/IAF)	KAJQU	5. TOWER (31-000587)	412339.44N/0955833.24W	1801 (1D)	500		2400		
				6. TERRAIN	411957.00N/0954918.00W	1367 (1400)		AS1500	2900		
FINAL: LPV		KAJQU	RW14	7. TREE (19-049978)	411553.51N/0954604.31W	1271 (1A)	34:1		1495/250		
FINAL: LNAV/VNAV		KAJQU	RW14	8. TOWER (19-027902)	411700.50N/0954634.10W	1480 (2C)	23.5:1		1816/571		
FINAL: LNAV		KAJQU	RW14	8. TOWER (19-027902)	411700.50N/0954634.10W	1480 (2C)	250		1740		
2. HOLD-IN-LIEU-OF-PT		QECQI	P-5	5. TOWER (31-000587)	412339.44N/0955833.24W	1801 (1D)	1000	AT799	3600		
				9. TERRAIN	413039.00N/0960700.00W	1367 (1400)		AS1500	2900		
3. MISSED APPROACH	MAP:	DA / DA / RW14	EVHAP				ASC		3900		
	ELEV:	1303/1650/1640		10. AAO	411057.00N/0954339.00W	1490 (4E)	1000		2500		
				11. TERRAIN	411057.00N/0954339.00W	1290 (1300)		AS1500	2800		
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	535	8. TOWER (19-027902)	411700.50N/0954634.10W	1480 (2C)	300		1780
CATEGORY B	1.5 NM		450		535	8. TOWER (19-027902)	411700.50N/0954634.10W	1480 (2C)	300		1780
CATEGORY C	1.7 NM		450		535	8. TOWER (19-027902)	411700.50N/0954634.10W	1480 (2C)	300		1780
CATEGORY D	2.3 NM		550		635	12. TOWER (19-002579)	411442.91N/0954133.28W	1566 (2C)	300		1880
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID:							
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
CITY AND STATE		ELEVATION: 1245		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
COUNCIL BLUFFS, IA		AIRPORT NAME: COUNCIL BLUFFS MUNI		RNAV		RNAV (GPS) RWY 14, AMDT 3		ACE			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. VGSI DATA: 3.00/29.9 ORDER 8260.3 CHAPTER 2 APPLIED TO 1558 AAO 412002N/0954959W. CRITICAL TEMPERATURES: CRITICAL LOW :-18C (0F) CRITICAL HIGH :+54C (+130F) ACT :-18C APT ISA :+12.53C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 971 HIGH TEMP 1133. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.31NM CAT B: 1.85NM CAT C: 2.91NM CAT D: 3.80NM SEE ATTACHED AIRSPACE LETTER. RASS PRESSURE PATTERNS THE SAME KCBF 1245, KOMA 985 RA = 52.96. VEGETATION HEIGHT: 100FT TREE VISUAL SURFACE PENETRATION: 34:1 1269 TREE (19-038235) 411552.95N/0954603.64W (0.04) BACKUP ALTIMETER AND NOTES: CHART NOTE: USE EPPLEY AIRFIELD ALTIMETER SETTING AND INCREASE LPV DA TO 1548 AND VISIBILITY TO 7/8 SM ALL CATS, LNAV/VNAV DA TO 1869 AND VISIBILITY TO 1 3/4 SM ALL CATS; INCREASE ALL MDA 60 FEET AND LNAV AND CIRCLING CAT C/D VISIBILITY 1/4 SM. CHART NOTE: BARO-VNAV AND VDP NA.																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
OMA APP CON FOD FSS ZMP ARTCC						N W S		OTHER: AWOS-3												SOURCE:KCBF / KOMA									
						F A A														DISTANCE: 0 / 6.63									
						A / C														HOURS REMOTE OPERATION: 0/YES / 24/YES									
SATISFACTORY ON:																													
X		V H F		X		U H F														H F		LOCATION: KCBF				ADJUSTMENT: 0 / 53			
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING		ALS																											
		(S) SALS																											
		MALS																											
		X		HIRL 18 (PCL), 36 (PCL)																									
		X		MIRL 14 (PCL), 32 (PCL)																									
		X		REIL 14 (PCL), 18 (PCL), 32 (PCL), 36 (PCL)																									
				TDZ																									
				C/LINE																									
X		OTHER (SPECIFY) PAPI-2L 14 (PCL), 18 (PCL), 32 (PCL), 36 (PCL)																											
6. RUNWAY MARKINGS				BASIC																									
				ALL WEATHER																									
				INSTRUMENT NPI-G 14, 18, 32, 36																									
7. RUNWAY VISUAL RANGE				APPROACH																									
				MIDFIELD																									
				ROLL OUT																									
8. GLIDE PATH				GP ANGLE: 3.00								ELEV RWY THRESHOLD:1239.8																	
				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: THOMAS L KIRKPATRICK												DATE: 10/25/2017																	
TITLE: AERONAUTICAL INFORMATION SPECIALIST												OFFICE: AJV-5423																	

