

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		LPV: DA LNAV/VNAV: DA LNAV: RW31 CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 4000 DIRECT ARTYS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD E, RT, 271.87 INBOUND. CHART FAS OBST: 1222 TREE 422720N/0931517W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 0.95 NM TO RW31* *LNAV ONLY. WAAS CHANNEL # 86732 REFERENCE PATH ID: W31A CHART CIRCLING ICON. LTP HAE: 316.5 M											
VEYUD (IF/IAF)				ZIROL (TF) (FB) (RNP 1.00)				314.33 / 6.70				2800													
ZIROL (FAF)				WISBU/2.00 NM TO RW31 (TF) (FB) (RNP 0.30)				314.26 / 3.10																	
WISBU/2.00 NM TO RW31				RW31 (MAP) (TF) (FO) (RNP 0.30)				314.26 / 2.00																	
RW31 (MAP)				1600 MSL (CA)				314.26				1600													
1600 MSL				ARTYS (DF) (FO) (RNP 1.00)								4000													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE VEYUD, RT, 314.33 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: 314.26 FAF: ZIROL DIST FAF TO MAP: 5.10 THLD: 5.10 4. MIN. ALT: VEYUD 4000, ZIROL 2800, WISBU/2.00 NM TO RW31 1800* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2800 GS ALT AT: ZIROL 2800 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: _____																MAG VAR: 1E				EPOCH YEAR: 2015					
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	1387	1	250	1387	1	250	1387	1	250	1387	1	250													
LNAV/VNAV DA	1387	1	250	1387	1	250	1387	1	250	1387	1	250													
LNAV MDA	1480	1	343	1480	1	343	1480	1	343	1480	1	343													
CIRCLING	1540	1	403	1620	1	483	1760	1 3/4	623	1760	2	623													
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA.																									
CITY AND STATE				ELEVATION: 1137 TDZE: 1137				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:									
IOWA FALLS, IA				AIRPORT NAME:								RNAV (GPS) RWY 31, AMDT 2				AMDT: 1A									
				IOWA FALLS MUNI												DATED 08/21/2014									



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>AMGR, ZMP, ZAU</div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME: <div>Digitally signed by THOMAS L KIRKPATRICK Aug 14, 2017</div> <div>THOMAS L KIRKPATRICK</div>				FIFO AJV-5423	DATE: 07/31/2017
APPROVED BY					
NAME: <div>JULIE A. MORGAN</div> <div>MANAGER</div>				FIFO AJV-5420	DATE:
CHANGES:					
<div>1. ADD CAT C/D MINIMUMS.</div> <div>2. LNAV/VNAV: CHANGED DA/HAT FROM 1446/309 TO 1387/250 ALL CATS.</div> <div>3. LNAV: CHANGED MDA/HAT FROM 1540/403 TO 1480/343 ALL CATS.</div> <div>4. CIRCLING: CHANGED CAT A MDA/HAA FROM 1620/483 TO 1540/403.</div> <div>5. ADDED CHART CIRCLING ICON.</div> <div>6. REMOVED ALL REFERENCE OF BACK-UP ALTIMETER SETTING NOTES.</div> <div>7. CHANGED FAS OBST FROM 1205/1284 TREE TO 1222 TREE.</div> <div>8. CHANGED VDP FROM 1.14 MILES TO 0.95 MILES.</div> <div>9. CHANGED THRE TO TDZE.</div> <div>10. CHANGED CRC REMAINDER FROM 5EA1B893 TO D99B65AC.</div>					
REASONS:					
<div>1. AIRPORT REQUEST.</div> <div>2, 3, 7. NEW OBSTACLE SURVEY DATA ALLOWS LOWER LNAV/VNAV DA AND LNAV MDA.</div> <div>4, 5. NEW CIRCLING AREA CRITERIA APPLIED.</div> <div>6. AIRPORT WEATHER TRANSMITS ON "WEATHER MESSAGE SWITCHING CENTER REPLACEMENT" (WMSCR) AND DEEMED RELIABLE.</div> <div>8. NEW LNAV MDA</div> <div>9. INCOORPORATED FDC/4/1838.</div> <div>10. LTP AND FPAP LAT/LONG COORDINATES UPDATED, CHANGED LENGTH OFFSET FROM 1344 TO 1352.</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.	224/30 CW 044/30 (NOPT)	VEYUD (IF/IAF) (FB)	4000
2.	044/30 CW 224/30	VEYUD (IF/IAF) (FO)	4000

QUALITY
16
CHECKED

CITY AND STATE IOWA FALLS, IA	ELEVATION: 1137 TDZE: 1137 AIRPORT NAME: IOWA FALLS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 2	SUP:
				AMDT: 1A
				DATED: 08/21/2014

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
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**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIFA
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	422800.7600N
LTP/FTP LONGITUDE	0931552.9600W
LTP/FTP ELLIPSOIDAL HEIGHT	+03165
FPAP LATITUDE	422904.0060N
FPAP LONGITUDE	0931717.7965W
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	1352
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

D99B65AC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03465
FPAP ORTHOMETRIC HEIGHT	+03465

QUALITY
16
CHECKED

CITY AND STATE IOWA FALLS, IA	ELEVATION: 1137 AIRPORT NAME: IOWA FALLS MUNI	TDZE: 1137 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 2	SUP:
				AMDT: 1A
				DATED: 08/21/2014

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
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:					

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		224/30 CW 044/30	VEYUD	1. TOWER (19-001138)	420019.60N/0925545.70W	1658 (5D)	1000	AT1342	4000		
				2. TERRAIN	421224.00N/0931903.00W	1191 (1200)		AS1500	2700		
STRAIGHT-IN AREA		044/30 CW 224/30	VEYUD	3. TOWER (19-001197)	422010.00N/0932801.00W	1721 (5D)	1000	AT1279	4000		
				4. TERRAIN	424806.00N/0932418.00W	1336 (1300)		AS1500	2800		
INTERMEDIATE		VEYUD (IF/IAF)	ZIROL	5. TOWER (19-021610)	422354.40N/0930838.00W	1477 (5D)	500	AT823	2800		
				6. TERRAIN	422409.00N/0930824.00W	1142 (1100)		AS1500	2600		
FINAL: LPV		ZIROL	RW31	7. TREE (19-041443)	422755.78N/0931537.77W	1205 (1A)	34:1		1387/250		
FINAL: LNAV/VNAV		ZIROL	RW31				ASC		1387/250		
FINAL: LNAV		ZIROL	WISBU/2.00 NM TO RW31	8. AAO	422526.41N/0931302.33W	1359 (2C)	250	RA64 DG127	1800		
FINAL: LNAV STEPDOWN		WISBU/2.00 NM TO RW31	RW31	9. TREE (19-042480)	422719.80N/0931516.73W	1222 (1A)	250		1480		
2. HOLD-IN-LIEU-OF-PT		VEYUD	P-5	10. WINDMILL (19-027528)	422148.37N/0925906.08W	1582 (2C)	1000	AT1418	4000		
				11. TERRAIN	422217.90N/0925850.50W	1160 (1200)		AS1500	2700		
3. MISSED APPROACH	MAP:	DA / DA / RW31	ARTYS				ASC		4000		
	ELEV:	1200/1285/1380		12. WINDMILL (19- 13. TERRAIN	423529.46N/0931319.58W 423551.00N/0930851.00W	1622 (5D) 1240 (1200)	1000		2700 2700		
4. CIRCLING AREA		DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	403	14. TREE (19-039561)	422901.90N/0931749.69W	1228 (1A)	300		1540
CATEGORY B	1.5 NM		450		483	15. TOWER (19-002543)	423015.12N/0931700.25W	1315 (2C)	300		1620
CATEGORY C	1.7 NM		450		623	16. TOWER (19-002702)	422954.65N/0931433.56W	1391 (4D)	300	AC50	1760
CATEGORY D	2.3 NM		550		623	16. TOWER (19-002702)	422954.65N/0931433.56W	1391 (4D)	300	AC50	1760
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: 1137		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
IOWA FALLS, IA		AIRPORT NAME: IOWA FALLS MUNI		RNAV		RNAV (GPS) RWY 31, AMDT 2		ACE			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. BACK-UP ALTIMETER NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WEBSTER CITY ALTIMETER SETTING AND INCREASE ALL DA 64 FEET AND ALL MDA 80 FEET; INCREASE ALL LNAV AND CIRCLING CAT C/D VISIBILITY 1/4 SM. BARO-VNAV AND VDP NA. CRITICAL TEMPERATURES: CRITICAL LOW :-17C (+2F) CRITICAL HIGH :+54C (+130F) ACT :-17C APT ISA :+12.749C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 969 HIGH TEMP 1131. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.85NM CAT C: 2.90NM CAT D: 3.79NM NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS SAME KIFA 1137FT, KEBD 1122 RA = 63.4. VGSI DATA: 3.00/40FT ALL ASSUMED VEGETATION HEIGHT 80'. SLOPES: LPV: 34:1 LNAV/VNAV: 23.44:1 VISIBILITY RESTRICTED TO 1SM PER ADO/FPT. OBST #12 = 19-022041																			
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE															3. ALTIMETER SETTING									
ZMP ARTCC ALO APP CON ZAU ARTCC							N W S		OTHER: AWOS-3																				
							F A A																						
							A / C																						
SATISFACTORY ON:																				LOCATION: KIFA					ADJUSTMENT: 0 / 64				
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING		ALS																											
		(S) SALS																											
		MALS																											
		HIRL																											
		X		MIRL 13 (PCL), 31 (PCL)																									
		X		REIL 13 (PCL), 31 (PCL)																									
				TDZ																									
				C/LINE																									
		X		OTHER (SPECIFY) PAPI-2L 13 (PCL), 31 (PCL)																									
6. RUNWAY MARKINGS		BASIC																											
		ALL WEATHER																											
		INSTRUMENT NPI-G 13, 31																											
7. RUNWAY VISUAL RANGE		APPROACH																											
		MIDFIELD																											
		ROLL OUT																											
8. GLIDE PATH		GP ANGLE: 3.00						ELEV RWY THRESHOLD: 1136.7																					
		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: THOMAS L KIRKPATRICK										DATE: 07/31/2017																			
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5423																			

