

<b>RNAV - STANDARD</b> <b>US DEPARTMENT OF TRANSPORTATION</b> <b>FEDERAL AVIATION ADMINISTRATION</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		LP: RW31 LNAV: RW31  CLIMB TO 6700 THEN CLIMBING RIGHT TURN TO 9000 DIRECT ADANE AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD SE, RT, 295.97 INBOUND. CHART FAS OBST: 6292 ASR 384802N/1044042W CHART R-2601. CHART VDP AT 0.78 NM TO RW31. WAAS CHANNEL # 40040 REFERENCE PATH ID: W31A CHART CIRCLING ICON. JATOL TO RW31 3.04/52 CHART FAS OBST: 6148 POLE 384805N/1044105W LTP HAE: 1852.1 M														
ADANE				ZENER (TF) (FB) (RNP 2.00)				174.21 / 11.86				9400																
PUB VORTAC				ONKIE (TF) (FB) (RNP 2.00)				340.47 / 18.39				9400																
ONKIE (IAF)				NUTVE (TF) (FB) (RNP 1.00)				340.42 / 5.00				8600																
ZENER (IAF)				NUTVE (TF) (FB) (RNP 1.00)				238.16 / 6.18				8600																
NUTVE (IF)				JATOL (TF) (FB) (RNP 1.00)				307.20 / 6.10				7800																
(SEE FORM 8260-10)																												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NUTVE 3. FAC: 307.14 FAF: JATOL DIST FAF TO MAP: 5.00 THLD: 5.00 4. MIN. ALT: NUTVE 8600, JATOL 7800 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: 34:1 IS CLEAR 8. MSA FROM: RW31 15400																	MAG VAR: 8E 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	DH/MDA	VIS	HAT/HAA										
LP MDA	6440	1	284	6440	1	284	6440	7/8	284	6440	7/8	284																
LNAV MDA	6560	1	404	6560	1	404	6560	1 1/8	404	6560	1 1/8	404																
CIRCLING	6740	1	553	6800	1	613	7040	2 1/2	853	7260	3	1073																
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PUB VORTAC AIRWAY RADIALS 267 CW 354. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ADANE ON V108 EASTBOUND.																			@ CAT C 900-2 1/2, CAT D 1100-3								QUALITY 16 CHECKED	
CITY AND STATE COLORADO SPRINGS, CO				ELEVATION: 6187 TDZE: 6156 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 2A						SUP:										
																		AMDT: 2										
																		DATED 05/26/2016										

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: <div><div>ATA<div><input checked="" type="checkbox"/></div></div><div>AAT<div><input type="checkbox"/></div></div><div>ALPA<div><input checked="" type="checkbox"/></div></div><div>APA<div><input checked="" type="checkbox"/></div></div><div>AOPA<div><input checked="" type="checkbox"/></div></div><div>NBAA<div><input checked="" type="checkbox"/></div></div><div>OTHER (specify)<div><input checked="" type="checkbox"/> ZDV, DEN APP CON, KCOS ATCT, KCOS AIRPORT MANAGER</div></div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME: <div><div>Digitally signed by KISSY MAXFIELD</div><div>KISSY MAXFIELD</div><div>Apr 14, 2017</div></div>				FIFO AJV-5412	DATE: 03/01/2017
APPROVED BY					
NAME: <div><div>GEORGE E. DAVIS</div><div>MANAGER</div></div>				FIFO AJV-5410	DATE:
CHANGES: 1. MAGVAR CHANGED FROM 9E TO 8E. 2. ALLCOURSES UPDATED ACCORDINGLY. 3. CHANGED WORDING PLANVIEW NOTE FOR ARRIVALS ON PUB VORTAC.					
REASONS: 1, 2. ILS CAT II/III AIRPORT CAUSING MAGVAR TO BE OUT OF TOLERANCE. 3. IAW 8260.19G, 8-2-5 E. THIS DOES NOT QUALIFY AS A PERIODIC REVIEW					

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

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**TERMINAL ROUTES, (CONT.):**

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
JATOL (FAF)	RW31 (MAP) (TF) (FO) (RNP 0.30)	307.14 / 5.00	
RW31 (MAP)	6700 MSL (CA)	307.14	6700
6700 MSL	ADANE (DF) (FO) (RNP 1.00)		9000

QUALITY  
16  
CHECKED

CITY AND STATE  
COLORADO SPRINGS, CO

**ELEVATION: 6187**      **TDZE: 6156**  
 AIRPORT NAME:  
 CITY OF COLORADO SPRINGS MUNI

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
**RNAV (GPS) RWY 31, AMDT 2A**

SUP:  
 AMDT: 2  
 DATED: 05/26/2016

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	KCOS
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	384827.9870N
LTP/FTP LONGITUDE	1044144.7060W
LTP/FTP ELLIPSOIDAL HEIGHT	+18521
FPAP LATITUDE	384931.1425N
FPAP LONGITUDE	1044305.1990W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0336
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 919CF8D8

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+18699
FPAP ORTHOMETRIC HEIGHT	+18699

QUALITY  
16  
CHECKED

CITY AND STATE COLORADO SPRINGS, CO	ELEVATION: 6187      TDZE: 6156 AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 2A	SUP:
				AMDT: 2
				DATED: 05/26/2016

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:					

## 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	ADANE	ZENER	1. AAO	385554.00N/1042627.00W	6600 (2C)	2000	AT800	9400			
			2. TERRAIN	385451.00N/1042551.00W	6329 (6300)		AS1500	7800			
FEEDER	PUB VORTAC	ONKIE	3. AAO	383615.00N/1043312.00W	5679 (2C)	2000	AT1721	9400			
			4. TERRAIN	383521.00N/1043230.00W	5388 (5400)		AS1500	6900			
INITIAL	ONKIE	NUTVE	5. AAO	384145.00N/1043130.00W	6039 (2C)	1000	AT1561	8600			
			6. TERRAIN	384022.00N/1043142.00W	5752 (5800)		AS1500	7300			
INITIAL	ZENER	NUTVE	7. AAO	384358.60N/1043110.92W	6219 (2C)	1000	AT1381	8600			
			8. TERRAIN	384358.60N/1043110.92W	6019 (6000)		AS1500	7500			
INTERMEDIATE	NUTVE	JATOL	9. AAO	384506.00N/1043421.00W	6259 (2C)	500	AT1041	7800			
			10. TERRAIN	384506.00N/1043421.00W	6059 (6100)		AS1500	7600			
FINAL: LP	JATOL	RW31	11. POLE	384804.88N/1044104.57W	6148 (1A)	250	MA40	6440			
FINAL: LNAV	JATOL	RW31	12. ASR (KCOST000054)	384802.09N/1044042.44W	6292 (1A)	250		6560			
2. PROCEDURE TURN											
3. MISSED APPROACH	MAP:	RW31 / RW31	ADANE	13. ATCT (08-022159)	384859.32N/1044156.65W	6340 (1A)	ASC	9000			
				14. AAO	385654.00N/1044000.00W	7179 (2C)	1000	8200			
	ELEV:	6340/6460		15. TERRAIN	385654.00N/1044000.00W	6979 (7000)	AS1500	8500			
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	553	16. TREE	385043.49N/1044218.80W	6429 (2C)	300		6740
CATEGORY B	1.5 NM		450		613	17. TREE	385118.69N/1044159.87W	6489 (2C)	300		6800
CATEGORY C	1.7 NM		450		853	18. TOWER (08-000099)	385215.00N/1044418.00W	6677 (4D)	300	AC50	7040
CATEGORY D	2.3 NM		550		1073	19. AAO	385339.59N/1044338.96W	6959 (2C)	300		7260
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAIID: RW31							
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	AAO	268/16.4	14310 (6C)	15400					16		
CITY AND STATE		ELEVATION: 6187		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
COLORADO SPRINGS, CO		AIRPORT NAME: CITY OF COLORADO SPRINGS MUNI		RNAV		RNAV (GPS) RWY 31, AMDT 2A		ANM			

