

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: RW31					
DWN VORTAC		LOVVI (TF) (FB) (RNP 2.00)		050.27 / 26.41				3000		CLIMB TO 3000 DIRECT WELOK AND HOLD.					
PLUGS		ROCOK (TF) (FB) (RNP 2.00)		269.64 / 10.31				3000							
TLBAT		LOVVI (TF) (FB) (RNP 2.00)		126.51 / 21.24				3000							
DAYLE		ROCOK (TF) (FB) (RNP 2.00)		144.60 / 11.25				4000							
LOVVI (IAF)		ZUXAL (NOPT) (TF) (FB) (RNP 1.00)		043.77 / 5.00				3000		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 132.86 INBOUND. FAS OBST: 1200 AAO 452944N/0935808W. DISTANCE TO THLD FROM 200 HAT: 0.45 NM. CHART VDP AT 1.23 NM TO RW31* *LNAV ONLY. WAAS CHANNEL # 61213 REFERENCE PATH ID: W31A LTP HAE: 282.6 M					
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 3E EPOCH YEAR: 1995					
2. HOLD SE ZUXAL, LT, 321.00 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: 313.07 FAF: POGOY DIST FAF TO MAP: 5.03 THLD: 5.03															
4. MIN. ALT: ZUXAL 3000, POGOY 2700															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 2700 GS ALT AT: POGOY 2700 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 59.9 34:1 IS CLEAR															
8. MSA FROM: RW31 3500															
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	1220	1/2	200	1220	1/2	200	1220	1/2	200	1220	1/2	200			
LNAV/VNAV DA	1379	3/4	359	1379	3/4	359	1379	3/4	359	1379	3/4	359			
LNAV MDA	1460	1/2	440	1460	1/2	440	1460	3/4	440	1460	3/4	440			
CIRCLING															
	1500	1	469	1500	1	469	1500	1 1/2	469	1620	2	589			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TLBAT ON V2 NORTHWEST BOUND AND ARRIVALS AT DAYLE ON V510 AND T330 NORTHWEST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DWN VORTAC AIRWAY RADIALS 078 CW 109. (CONTINUED ON PAGE 2)															
CITY AND STATE ST CLOUD, MN		ELEVATION: 1031 TDZE: 1020 AIRPORT NAME: ST CLOUD RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1A 29 MARCH 2018						SUP: AMDT: 1 DATED 08/27/2009			

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.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ROCOK (IAF)	ZUXAL (NOPT) (TF) (FB) (RNP 1.00)	222.25 / 5.00	3000
ZUXAL (IF/IAF)	POGOY (TF) (FB) (RNP 1.00)	313.14 / 6.10	2700
POGOY (FAF)	RW31 (MAP) (TF) (FO) (RNP 0.30)	313.07 / 5.03	
RW31 (MAP)	1220 MSL (CA)	313.07	
1220 MSL	WELOK (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE ALL DA 76 FT, AND ALL MDA 80 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/4 SM AND LNAV CAT C/D VISIBILITY 1/4 SM.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE LPV INCREASE ALL CATS VISIBILITY TO 7/8 SM AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 46C (114F).

CHART NOTE: BARO-VNAV AND VDP N/A WHEN USING LITTLE FALLS ALTIMETER SETTING.

QUALITY
25
CHECKED

CITY AND STATE

ST CLOUD, MN

ELEVATION: 1031

TDZE: 1020

AIRPORT NAME:

ST CLOUD RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, AMDT 1A

29 MARCH 2018

SUP:

AMDT: 1

DATED: 08/27/2009

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSTC
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	453224.4685N
LTP/FTP LONGITUDE	0940301.2880W
LTP/FTP ELLIPSOIDAL HEIGHT	+02826
FPAP LATITUDE	453328.5505N
FPAP LONGITUDE	0940429.3580W
THRESHOLD CROSSING HEIGHT (TCH)	00059.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 0A24B1C6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03099
FPAP ORTHOMETRIC HEIGHT	+03099

QUALITY
25
CHECKED

CITY AND STATE ST CLOUD, MN	ELEVATION: 1031 AIRPORT NAME: ST CLOUD RGNL	TDZE: 1020 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1A 29 MARCH 2018	SUP:
				AMDT: 1
				DATED: 08/27/2009