

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: RW10L CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 2900 DIRECT ONARE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 114.23 INBOUND. CHART FAS OBST: 961 TREE 444930N/0932908W 1170 AAO 445048N/0933314W CHART CIRCLING ICON. DISTANCE TO THLD FROM 281 HAT: 0.76 NM. WAAS CHANNEL # 42510 REFERENCE PATH ID: W10A LTP HAE: 249.3 M							
FGT VORTAC		KAPKE (FB)		282.15 / 24.23		2900									
GEP VORTAC		WAPAL (FB)		224.44 / 17.22		2900									
DRAIL (IAF)		SIGCO (NOPT) (FB)		074.30 / 10.01		2800									
MAYER (IAF)		SIGCO (NOPT) (FB)		102.84 / 12.41		2800									
KAPKE (IAF)		SIGCO (NOPT) (FB)		007.82 / 7.70		2800									
WAPAL (IAF)		SIGCO (NOPT) (FB)		187.86 / 5.50		2800									
SIGCO (IF/IAF)		YODUC (FB)		097.84 / 6.37		2100									
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)								MAG VAR: 3E EPOCH YEAR: 1985							
2. HOLD W SIGCO, LT, 097.84 INBOUND, 2800 FT. IN LIEU OF PT (IAF)															
3. FAC: <u>097.94</u> FAF: <u>YODUC</u> DIST FAF TO MAP: <u>3.63</u> THLD: <u>3.63</u>															
4. MIN. ALT: <u>SIGCO 2800, YODUC 2100</u>															
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>															
6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>YODUC 2100</u> OM: <u> </u> MM: <u> </u> IM: <u> </u>															
7. GS ANGLE: <u>3.00</u> TCH: <u>39.4</u> 34:1 IS NOT CLEAR															
8. MSA FROM: <u>RW10L 3500</u>															
MINIMUMS															
TAKEOFF: <u>SEE FAA FORM 8260-15A FOR THIS AIRPORT</u>						ALTERNATE: <u>N A</u>		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	1187	1	281	1187	1	281	1187	1	281	1187	1	281			
LNAV/VNAV DA	1230	1 1/8	324	1230	1 1/8	324	1230	1 1/8	324	1230	1 1/8	324			
LNAV MDA	1240	1	334	1240	1	334	1240	1	334	1240	1	334			
CIRCLING	1300	1	394	1440	1	534	1440	1 1/2	534	1540	2	634			
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING MINNEAPOLIS-ST PAUL INTL/WOLD CHAMBERLAIN ALTIMETER SETTING. @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22C (-7F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)															
CITY AND STATE MINNEAPOLIS, MN				ELEVATION: 906 TDZE: 906 AIRPORT NAME:		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10L, AMDT 1A 24 JULY 2014				SUP: AMDT: 1 DATED 04/03/2014			

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
YODUC	RW10L (MAP) (FO)	097.94 / 3.63	
RW10L (MAP)	1400 MSL	097.94	1400
1400 MSL	ONARE (FO)		2900

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRAIL ON V412 WESTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON FGT VORTAC AIRWAY RADIALS 258 CW 339, AND ON GEP VORTAC AIRWAY RADIALS 138 CW 297.

CHART NOTE: NIGHT LANDING: RWY 10L/28R CAT C/D NA. RWY 36 NA.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MINNEAPOLIS-ST PAUL INTL/WOLD

CHAMBERLAIN ALTIMETER SETTING AND INCREASE ALL DA 34 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV VISIBILITY 1/8 MILE ALL CATS, AND CIRCLING CAT D 1/4 MILE.

QUALITY
CHECKED

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 906

TDZE: 906

AIRPORT NAME:

FLYING CLOUD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 10L, AMDT 1A

24 JULY 2014

SUP:

AMDT: 1

DATED: 04/03/2014

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

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFCM
RUNWAY	RW10L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	444946.7940N
LTP/FTP LONGITUDE	0932754.2160W
LTP/FTP ELLIPSOIDAL HEIGHT	+02493
FPAP LATITUDE	444929.7700N
FPAP LONGITUDE	0932551.3300W
THRESHOLD CROSSING HEIGHT (TCH)	00039.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1560
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

7833FD5B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02761
FPAP ORTHOMETRIC HEIGHT	+02761

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 906

TDZE: 906

AIRPORT NAME:

FLYING CLOUD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 10L, AMDT 1A

24 JULY 2014

SUP:

AMDT: 1

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[illegible]

WP	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAEARNRT	DRAIL	K30	C	L	N44492916W093552619			E0010	NAR		DRAIL		
SUSAEARNRT	KAPKE	K30	W		N44440669W093434417			E0008	NAR		KAPKE		
SUSAEARNRT	MAYER	K30	C	L	N44550477W093582908			E0010	NAR		MAYER		
SUSAEARNRT	ONARE	K30	C	L	N44402190W093174571			E0004	NAR		ONARE		
SUSAEARNRT	SIGCO	K30	W		N44514043W093414228			E0008	NAR		SIGCO		
SUSAEARNRT	WAPAL	K30	W		N44570450W093401489			E0007	NAR		WAPAL		
SUSAEARNRT	YODUC	K30	W		N44502818W093325433			E0006	NAR		YODUC		

[illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KFCMK3FR10L	ADRAIL	010DRAILK3EA0E	A	IF					18000		A	JS
SUSAP	KFCMK3FR10L	ADRAIL	020SIGCOK3EA0EE	B	010TF		07430100	+	02800			A	JS
SUSAP	KFCMK3FR10L	AFGT	010FGT K3D 0V		IF					18000		A	JS
SUSAP	KFCMK3FR10L	AFGT	020KAPKEK3EA0E	A	020TF		28220242	+	02900			A	JS
SUSAP	KFCMK3FR10L	AFGT	030SIGCOK3EA0EE	B	010TF		00780077	+	02800			A	JS
SUSAP	KFCMK3FR10L	AGEP	010GEP K3D 0V		IF					18000		A	JS
SUSAP	KFCMK3FR10L	AGEP	020WAPALK3EA0E	A	020TF		22440172	+	02900			A	JS
SUSAP	KFCMK3FR10L	AGEP	030SIGCOK3EA0EE	B	010TF		18790055	+	02800			A	JS
SUSAP	KFCMK3FR10L	AMAYER	010MAYERK3EA0E	A	IF					18000		A	JS
SUSAP	KFCMK3FR10L	AMAYER	020SIGCOK3EA0EE	B	010TF		10280124	+	02800			A	JS
SUSAP	KFCMK3FR10L	ASIGCO	010SIGCOK3EA0EE	AL	HF		09780040	+	02800	18000		A	JS
SUSAP	KFCMK3FR10L	R	010SIGCOK3EA0E	I	IF			+	02800	18000		A	JS
SUSAP	KFCMK3FR10L	R	020YODUCK3EA1E	F	051TF		09780064	+	02100		RW10L K3PGA	JS	
SUSAP	KFCMK3FR10L	R	020YODUCK3EA2WALPV			ALNAV/VNAV ALNAV						JS	
SUSAP	KFCMK3FR10L	R	030RW10LK3PGOGY	M	031TF		09790036		00945	-300		A	JS
SUSAP	KFCMK3FR10L	R	040		0 M CA		0979	+	01400			A	JS
SUSAP	KFCMK3FR10L	R	050ONAREK3EA0EY	R	DF			+	02900			A	JS
SUSAP	KFCMK3FR10L	R	060ONAREK3EA0EE	R	HM		11420040	+	02900			A	JS

QUALITY
9
CHECKED

FAA FORM 8260 - 10 / April 2006 (Computer Generated)

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[illegible]

SUP:	
AMDT:	1
DATED:	04/03/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DRAIL	DRAIL	010	IAF	IF		FB					
	DRAIL	SIGCO	020		TF		FB	1.0	074.3 (077.3T)	010.0	AA 02800	
	FGT	FGT	010		IF		FB					
	FGT	KAPKE	020	IAF	TF		FB	2.0	282.2 (285.2T)	024.2	AA 02900	
	FGT	SIGCO	030		TF		FB	1.0	007.8 (010.8T)	007.7	AA 02800	
	GEP	GEP	010		IF		FB					
	GEP	WAPAL	020	IAF	TF		FB	2.0	224.4 (227.4T)	017.2	AA 02900	
	GEP	SIGCO	030		TF		FB	1.0	187.9 (190.9T)	005.5	AA 02800	
	MAYER	MAYER	010	IAF	IF		FB					
	MAYER	SIGCO	020		TF		FB	1.0	102.8 (105.8T)	012.4	AA 02800	
	SIGCO	SIGCO	010	IAF	HF	L	FO		097.8 (100.8T)	004.0	AA 02800	
		SIGCO	010	FACF	IF		FB				AA 02800	
		YODUC	020	PAF	TF		FB	0.5	097.8 (100.8T)	006.4	AA 02100	
		RW10L	030	MAP	TF		FO	0.3	097.9 (100.9T)	003.6	AT 00945	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		097.9 (100.9T)		AA 01400	
	ONARE	050		DF	R	FO				AA 02900	
	ONARE	060		HM	R	FO		114.2 (117.2T)	004.0	AA 02900	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FGT	N443751.43	W0931055.37	N4437.857	W09310.923
	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	DRAIL	N444929.16	W0935526.19	N4449.486	W09355.437
	KAPKE	N444406.69	W0934344.17	N4444.112	W09343.736
	MAYER	N445504.77	W0935829.08	N4455.080	W09358.485
	ONARE	N444021.90	W0931745.71	N4440.365	W09317.762
	SIGCO	N445140.43	W0934142.28	N4451.674	W09341.705
	WAPAL	N445704.50	W0934014.89	N4457.075	W09340.248
	YODUC	N445028.18	W0933254.33	N4450.470	W09332.906
	RW10L	N444946.79	W0932754.22	N4449.780	W09327.904

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW10L	00906	39

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 906	TDZE: 906	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 10L, AMDT 1A 24 JULY 2014	SUP:
	AIRPORT NAME: FLYING CLOUD				AMDT: 1
					DATED: 04/03/2014