

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

**RNAV (GPS) - STANDARD
INSTRUMENT APPROACH PROCEDURE
FAR PART 97.33**

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TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
GFK VOR/DME	GABSE (FB)	093.40 / 10.89	3000	LPV: DA LNAV/VNAV: DA LNAV: RW13
TVF VOR/DME	ILUVE (FB)	258.73 / 22.55	3000	
GABSE (IAF)	AVINE (NOPT) (FB)	037.73 / 5.00	3000	CLIMB TO 3000 DIRECT FAPVU AND HOLD.
ILUVE (IAF)	AVINE (NOPT) (FB)	217.86 / 5.00	3000	
AVINE (IF/IAF)	BEDSE (FB)	127.79 / 6.47	2600	

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 308.10 INBOUND.
CHART FAS OBST: 908 RD(N) 475050N/0963759W
CHART FAS OBST: 1099 AAO 475351N/0964039W
WAAS CHANNEL # 72704
REFERENCE PATH ID: W13A
DISTANCE TO THLD FROM 250 HAT: 0.66 NM

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW AVINE, RT, 127.79 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
- FAC: 127.87 FAF: BEDSE DIST FAF TO MAP: 5.15 THLD: 5.15
- MIN. ALT: AVINE 3000, BEDSE 2600
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 2600 GS ALT AT: BEDSE OM: MM: IM:
- GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR
- MSA FROM: RW13 2700

MAG VAR: 7E EPOCH YEAR: 1980

MINIMUMS

TAKEOFF:	STANDARD	X	SEE FAA FORM 8260-15A	FOR THIS AIRPORT	ALTERNATE: NA	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	1146	1	250	1146	1	250	1146	1	250						
LNAV/VNAV DA	1210	1	314	1210	1	314	1210	1	314						
LNAV MDA	1360	1	464	1360	1	464	1360	1 1/4	464						
CIRCLING	1360	1	460	1360	1	460	1360	1 1/2	460						

NOTES:
 CHART NOTE: BARO-VNAV NA WHEN USING GRAND FORKS ALTIMETER SETTING. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
 SEE 8260-10

CITY AND STATE CROOKSTON, MN	ELEVATION: 900 TDZE: 896 AIRPORT NAME: CROOKSTON MUNI/KIRKWOOD FLD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO.: RNAV (GPS) RWY 13, ORIG OCT 25 2007	SUP: AMDT: NONE DATED
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NOTES CONT.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GFK VOR/DME ON AIRWAY RADIALS 038 CW 143.

CHART NOTE: IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRAND FORKS ALTIMETER SETTING AND INCREASE ALL DA'S 62 FEET AND ALL MDA'S 80 FEET.

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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	KCKN
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	475039.6545N
LTP/FTP LONGITUDE	0963742.4470W
LTP/FTP ELLIPSOIDAL HEIGHT	+02456
FPAP LATITUDE	474936.7400N
FPAP LONGITUDE	0963608.8400W
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	1440
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 3D9AD347

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02726
FPAP ORTHOMETRIC HEIGHT	+02726

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	AIRPORT NAME: CROOKSTON MUN/KIRKWOOD FLD			AMDT: NONE
				DATED:



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SUSAP KCKNK3GRW13 0043001279 N47503965W096374245+0000 00894000040075

1 2 3 4 5 6 7 8 9 0 1 2 3
PP 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCKNK3PR13 RW13 001 0000W13A0N4750396545W09637424470+024560300N4749367400W09636088400106751440000400F4005003D9AD347
SUSAP KCKNK3PR13 RW13 002 +02726+02726W13A 72704 000

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCKNK3SRW13 K3PG 0 25180027 M

CITY AND STATE
CROOKSTON, MN

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CROOKSTON MUNI/KIRKWOOD FLD

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-17

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	AVINE	AVINE	010		HF	R	FB		127.8(135T)	005.0	03000
	GFK	GFK	010		IF		FB				
	GFK	GABSE	020	IAF	TF		FB	2.0	093.4(100T)	010.9	03000
	GFK	AVINE	030		TF		FB	1.0	037.7(045T)	005.0	03000
	TVF	TVF	010		IF		FB				
	TVF	ILUVE	020	IAF	TF		FB	2.0	258.7(266T)	022.6	03000
	TVF	AVINE	030		TF		FB	1.0	217.9(225T)	005.0	03000
		AVINE	010	FACF	IF		FB				03000
		BEDSE	020	FAF	TF		FB	0.5	127.8(135T)	006.5	02600
		RW13	030	MAP	TF		FO	0.3	127.9(135T)	005.2	00934

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	FAPVU	040		DF		FO	1.0			03000
	FAPVU	050		HM	R	FO	2.0	308.1(315T)	005.0	03000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GFK	N475717.40	W0971107.33	N4757.290	W09711.122
	TVF	N480409.58	W0961111.24	N4804.160	W09611.187
	AVINE	N475851.28	W0964957.17	N4758.855	W09649.953
	BEDSE	N475417.79	W0964307.73	N4754.297	W09643.129
	FAPVU	N474156.66	W0962447.18	N4741.944	W09624.786
	GABSE	N475518.39	W0965511.41	N4755.307	W09655.190
	ILUVE	N480223.93	W0964442.21	N4802.399	W09644.704
	RW13	N475039.65	W0963742.45	N4750.661	W09637.708

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00894	40

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