

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 CLIMB TO 4000 DIRECT HML VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 125.42 INBOUND. CHART FAS OBST: 949 TREE 484428N/0965444W CHART FAS OBST: 949 TREE 484441N/0965510W CHART 954 TREE 484339N/0965329W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 1.17 MILES TO RW31* *LNAV ONLY. WAAS CHANNEL # 45933 REFERENCE PATH ID: W31A CHART CIRCLING ICON LTP HAE: 222.7 M						
HOGEB (IF/IAF)		OKIFO (FB)		315.05 / 8.00				2400								
OKIFO (FAF)		WIKBU/1.90 NM TO RW31 (FB)		314.95 / 2.94												
WIKBU/1.90 NM TO RW31		RW31 (MAP) (FO)		314.95 / 1.90												
RW31 (MAP)		1070 MSL		314.95												
1070 MSL		HML VORTAC (FO)						4000								
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. HOLD SE HOGEB, RT, 315.05 INBOUND, 2600 FT. IN LIEU OF PT (IAF) 3. FAC: 314.95 FAF: OKIFO DIST FAF TO MAP: 4.84 THLD: 4.84 4. MIN. ALT: HOGEB 2600, OKIFO 2400, WIKBU/1.90 NM TO RW31 1460* 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 2400 GS ALT AT: OKIFO 2400 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM:										MAG VAR: 5E EPOCH YEAR: 2000						
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	1070	1	250	1070	1	250	1070	1	250		NA					
LNAV/VNAV DA	1229	1 3/8	409	1229	1 3/8	409	1229	1 3/8	409		NA					
LNAV MDA	1220	1	400	1220	1	400	1220	1 1/8	400		NA					
CIRCLING	1380	1	560	1380	1	560	1380	1 1/2	560		NA					
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART NOTE: VDP NA WITH GRAFTON, NO ALTIMETER SETTING. (SEE FORM 8260-10)																
CITY AND STATE				ELEVATION: 820 THRE: 820		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
HALLOCK, MN				AIRPORT NAME:		RNAV		RNAV (GPS) RWY 31, AMDT 1 19 SEPTEMBER 2013				AMDT: ORIG				
				HALLOCK MUNI								DATED 05/05/2011				

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

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRAFTON, ND ALTIMETER SETTING AND INCREASE ALL DA 63 FT AND ALL MDA 80 FT; INCREASE LNAV/VNAV ALL CATS, LNAV CAT C AND CIRCLING CAT C VISIBILITY 1/4 MILE.

TAA

	FROM	TO	ALT
1.	225/30 CW 045/30 (NOPT)	225/5 CW 045/5	2800
2.	225/5 CW 045/5	HOGEB (IF/IAF) (FB)	2600
3.	045/30 CW 225/30	HOGEB (IAF) (FO)	2600

QUALITY
4
CHECK

CITY AND STATE
HALLOCK, MN

ELEVATION: 820 THRE: 820
AIRPORT NAME:
HALLOCK MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 31, AMDT 1
19 SEPTEMBER 2013

SUP:
AMDT: ORIG
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RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KHCO
RUNWAY RW31
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W31A
LTP/FTP LATITUDE 484454.7630N
LTP/FTP LONGITUDE 0965615.5645W
LTP/FTP ELLIPSOIDAL HEIGHT +02227
FPAP LATITUDE 484602.8460N
FPAP LONGITUDE 0965742.3350W
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 1528
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

A772E842

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3
LTP ORTHOMETRIC HEIGHT +02499
FPAP ORTHOMETRIC HEIGHT +02499

QUALITY
4
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CITY AND STATE HALLOCK, MN	ELEVATION: 820 THRE: 820 AIRPORT NAME: HALLOCK MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1 19 SEPTEMBER 2013	SUP:
				AMDT: ORIG
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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHCOK3FR31	AHOGEB	010HOGEBK3EA0EE	AR	HF			31510040		+ 02600	18000			A JS
SUSAP KHCOK3FR31	R	010HOGEBK3EA0E	I	IF					+ 02600	18000			A JS
SUSAP KHCOK3FR31	R	020OKIFOK3EA1E	F	051TF			31510080		+ 02400				A JS
SUSAP KHCOK3FR31	R	020OKIFOK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KHCOK3FR31	R	021WIKBUK3EA0E	S	031TF			31500029	V	0146001465		-300		A JS
SUSAP KHCOK3FR31	R	030RW31	K3PGOGY	M	031TF		31500019		00860		-300		A JS
SUSAP KHCOK3FR31	R	040		0	M	CA	3150		+ 01070				A JS
SUSAP KHCOK3FR31	R	050HML	K3D	OVY		DF			+ 04000				A JS
SUSAP KHCOK3FR31	R	060HML	K3D	OVE	R	HM	12540040		+ 04000				A JS

[illegible][illegible]

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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
	HOGEB	HOGEB	010	IAF	HF	R	FO		315.1(320.1T)	004.0	AA 02600	
		HOGEB	010	FACF	IF		FB				AA 02600	
		OKIFO	020	FAF	TF		FB	0.5	315.1(320.1T)	008.0	AA 02400	
		WIKBU	021	SDF	TF		FB	0.3	315.0(320.0T)	002.9	AA 01460	GS 01465
		RW31	030	MAP	TF		FO	0.3	315.0(320.0T)	001.9	AT 00860	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		315.0(320.0T)		AA 01070	
	HML	050		DF		FO				AA 04000	
	HML	060		HM	R	FO		125.4(130.4T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HML	N485209.09	W0970701.51	N4852.152	W09707.025
	HOGEB	N483505.50	W0964348.24	N4835.092	W09643.804
	OKIFO	N484112.92	W0965133.44	N4841.215	W09651.557
	WIKBU	N484327.63	W0965424.64	N4843.461	W09654.411
	RW31	N484454.76	W0965615.56	N4844.913	W09656.259

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31	00820	40

QUALITY
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	AIRPORT NAME: HALLOCK MUNI		RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
			19 SEPTEMBER 2013	DATED: 05/05/2011