

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD  
INSTRUMENT APPROACH PROCEDURE  
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.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
IKAFY (IAF)	OHUTO (NOPT) (FB)	083.93 / 5.00	4000	LPV: DA LNAV/VNAV: DA LNAV: RW17  CLIMB TO 4000 DIRECT KUNKY AND ON TRACK 213.35 TO CEVYA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.  ADDITIONAL FLIGHT DATA: HOLD W, RT, 083.93 INBOUND. CHART FAS OBST: 929 TREE 482528N/0972207W CHART FAS OBST: 934 TREE 482631N/0972210W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. WAAS CHANNEL # 53518 REFERENCE PATH ID: W17A
VOYYU (IAF)	OHUTO (NOPT) (FB)	264.11 / 5.00	4000	
OHUTO (IF/IAF)	DOPEQ (FB)	174.02 / 6.10	2300	

This is a corrected copy of a procedure published in TL 10-13.  
\*\* CHANGED: IAF Fix Name FROM PINEL TO VOYYU. \*\*

- PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
- HOLD N OHUTO, RT, 174.02 INBOUND, 4000 FT. IN LIEU OF PT (IAF)
- FAC: 174.02 FAF: DOPEQ DIST FAF TO MAP: 4.46 THLD: 4.46
- MIN. ALT: OHUTO 4000, DOPEQ 2300, JARNS/1.60 NM TO RW17 1360'
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 2300 GS ALT AT: DOPEQ 2300 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
- MSA FROM:

MAG VAR: 6E

EPOCH YEAR: 2000

MINIMUMS

TAKEOFF:	STANDARD	X	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	X										
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	1072	1	250	1072	1	250	1072	1	250						
LNAV/VNAV DA	1228	1 1/2	406	1228	1 1/2	406	1228	1 1/2	406						
LNAV MDA	1200	1	378	1200	1	378	1200	1	378						
CIRCLING	1340	1	516	1340	1	516	1340	1 1/2	516						

NOTES:  
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 NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDE PATH NOT COINCIDENT.  
SEE 8260-10

CITY AND STATE	ELEVATION: 824 TDZE: 822	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
GRAFTON, ND	AIRPORT NAME:	RNAV	RNAV (GPS) RWY 17, ORIG	AMDT: NONE
	HUTSON FIELD		29 JUL 2010	DATED

QUALITY  
6  
CHECKED

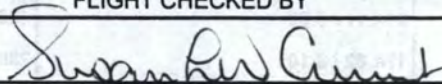
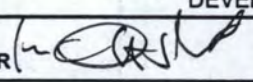
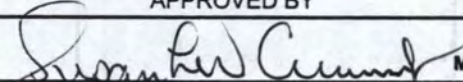
TL10-15 Pub 7/29/10



<b>US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</b>				<b>RNAV (GPS) - STANDARD INSTRUMENT APPROACH PROCEDURE FAR 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.									
<b>TERMINAL ROUTES</b>												<b>MISSED APPROACH</b>					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW17  CLIMB TO 4000 DIRECT KUNKY AND ON TRACK 213.35 TO CEVYA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.  ADDITIONAL FLIGHT DATA: HOLD W, RT, 083.93 INBOUND. CHART FAS OBST: 929 TREE 482528N/0972207W CHART FAS OBST: 934 TREE 482631N/0972210W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. WAAS CHANNEL # 53518 REFERENCE PATH ID: W17A							
IKAFY (IAF)		OHUTO (NOPT) (FB)		083.93 / 5.00				4000									
VOYYU (IAF)		OHUTO (NOPT) (FB)		264.11 / 5.00				4000									
OHUTO (IF/IAF)		DOPEQ (FB)		174.02 / 6.10				2300									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD N OHUTO, RT, 174.02 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: 174.02 FAF: DOPEQ DIST FAF TO MAP: 4.46 THLD: 4.46 4. MIN. ALT: OHUTO 4000, DOPEQ 2300, JARNS/1.60 NM TO RW17 1360* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2300 GS ALT AT: DOPEQ 2300 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: _____												MAG VAR: 6E		EPOCH YEAR: 2000			
<b>MINIMUMS</b>																	
TAKEOFF:		STANDARD		<input checked="" type="checkbox"/>		SEE FAA FORM 8260-15A FOR THIS AIRPORT		ALTERNATE: N A		<input checked="" type="checkbox"/>							
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		1072	1	250	1072	1	250	1072	1	250			NA				
LNAV/VNAV DA		1228	1 1/2	406	1228	1 1/2	406	1228	1 1/2	406			NA				
LNAV MDA		1200	1	378	1200	1	378	1200	1	378			NA				
CIRCLING		1340	1	516	1340	1	516	1340	1 1/2	516			NA				
NOTES: 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 NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. SEE 8260-10																	
CITY AND STATE				ELEVATION: 824 TDZE: 822				FACILITY IDENTIFIER:				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:	
GRAFTON, ND				AIRPORT NAME:				RNAV				RNAV (GPS) RWY 17, ORIG				AMDT: NONE	
				HUTSON FIELD												DATED	

QUALITY  
6  
CHECKED



ALL AFFECTED PROCEDURES REVIEWED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE  ROUTINE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input checked="" type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input checked="" type="checkbox"/>	NBAA <input checked="" type="checkbox"/>
OTHER (specify) <u>ZMP, GRK APP CON, AMGR</u>					
FLIGHT CHECKED BY					
NAME: WILLIAM RAY GEISER				FIFO FIOG	DATE: 04/23/2010
DEVELOPED BY					
NAME: DONALD H. LANIER				FIFO AVN-120	DATE: 05/18/2010
APPROVED BY					
NAME: SUSAN CRUMB				FIFO AVN-120	DATE: 04/27/2010
CHANGES:					
<ol style="list-style-type: none"> <li>1. CHANGED AIRPORT NAME TO HUTSON FIELD.</li> <li>2. CHANGED PROCEDURE NAME TO RNAV (GPS) RWY 17.</li> <li>3. REMOVED MSA AND TERMINAL ROUTE (NALCO TO OHUTO) AND REPLACED WITH TERMINAL ARRIVAL AREAS.</li> <li>4. ADDED "T" IAF FIXES IKAFY AND PINEL, BOTH 5NM FROM OHUTO/4000'.</li> <li>5. CHANGED MISSED APPROACH TO CLIMB TO 4000 DIRECT KUNKY AND ON TRACK 213.35 TO CEVYA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000 (HOLD WEST, RT, 083.93 INBOUND).</li> <li>6. CHANGED FINAL APPROACH COURSE FROM 174.04 TO 174.02.</li> <li>7. MOVED FIX DOPEQ .46 NM NORTH TO 4.46 NM FROM THRESHOLD.</li> <li>8. MOVED FIX OHUTO 1.56 NM NORTH AT 6.1 NM FROM DOPEQ.</li> <li>9. ADDED SDF JARNS AT 1.6 NM FROM THLD AT 1360 MSL WITH ASTERISK.</li> <li>10. ADDED LPV AND LNAV/VNAV MINIMUMS.</li> <li>11. CHANGED S-17 MINIMUMS TO LNAV MDA MINIMUMS; LOWERED CAT A &amp; B MDA/HAT FROM 1520/699 TO 1200/378, CHANGED CAT C MDA/HAT/VIS FROM 1520/699/2 TO 1200/378/1 (APPROVED BY FPO).</li> <li>12. CHANGED CIRCLING MDA/HAA FROM 1580/756 TO 1340/516, CAT B VIS FROM 1 1/4 TO 1, CAT C VIS FROM 2 1/4 TO 1 1/2 (APPROVED BY FPO).</li> </ol> SEE 8260-10					
REASONS:					
<ol style="list-style-type: none"> <li>1. AVNIS DATA.</li> <li>2. 8260.3 PARA 161.</li> <li>3, 4, 5, 10. ATC/FPO REQUEST.</li> <li>6. FINAL COURSE RECALCULATED.</li> <li>7. PLACED AT RNP PFAF LOCATION.</li> <li>8. MINIMUM INTERMEDIATE SEGMENT LENGTH.</li> <li>9, 11, 12. OBSTACLE DATA.</li> <li>13. ADDED BACKUP ALTIMETER.</li> <li>14. 34:1 PENETRATIONS.</li> <li>15, 16, 20 CRITERIA.</li> <li>17. ANGLES NOT COINCIDENT.</li> <li>18. LPV AND LNAV/VNAV ADDED.</li> <li>19. ASTERISK DESIGNATES SDF ALTITUDE 1360 FOR LNAV ONLY.</li> </ol> SEE 8260-10					

QUALITY  
6  
CHECKED



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

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## NOTES CONT.

\*RNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRAND FORKS INTL ALTIMETER SETTING AND INCREASE ALL DA 69 FEET AND ALL MDA 80 FEET. INCREASE LPV AND RNAV/VNAV ALL CATS AND RNAV CAT C VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV NA WHEN USING GRAND FORKS INTL ALTIMETER SETTING.

## TAA

	FROM	TO	ALT
1.	084/30 CW 264/30 (NOPT)	OHUTO (IF/IAF) (FB)	4000
2.	264/30 CW 354/30	VOYYU (IAF) (FB)	4000
3.	354/30 CW 084/30	IKAFY (IAF) (FB)	4000

QUALITY  
6  
CHECKED

CITY AND STATE

GRAFTON, ND

ELEVATION: 824

TDZE: 822

AIRPORT NAME:

HUTSON FIELD

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 17, ORIG

SUP:

AMDT: NONE

DATED:

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
COORDINATED WITH: <div style="display: flex; justify-content: space-between; padding: 5px;"> <div>ATA <input type="checkbox"/></div> <div>AAT <input type="checkbox"/></div> <div>ALPA <input type="checkbox"/></div> <div>APA <input type="checkbox"/></div> <div>AOPA <input type="checkbox"/></div> <div>NBAA <input type="checkbox"/></div> <div>OTHER (specify) <input type="checkbox"/> _____</div> </div>		
FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:
CHANGES: CHANGES CONT. 13. CHANGED CHART NOTE "USE GRAND FORKS INTL ALTIMETER SETTING" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRAND FORKS INTL ALTIMETER SETTING AND INCREASE ALL DA 69 FEET AND ALL MDA 80 FEET. INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CAT C VISIBILITY 1/4 MILE". 14. ADDED VISIBILITY REDUCTION BY HELICOPTERS NA NOTE. 15. ADDED UNCOMPENSATED BARO-VNAV NOTE. 16. ADDED DME/DME RNP-0.3 NA NOTE. 17. ADDED VGSI AND RNAV GLIDEPATH NOT COINCIDENT NOTE. 18. ADDED TCH 40 AND 3 DEGREE GLIDESLOPE TO PROFILE. 19. ADDED "LNAV ONLY" NOTE TO PROFILE. 20. ADDED HOLD-IN-LIEU PATTERN AT OHUTO.		
REASONS: REASONS CONT. THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 02/05/2010. CHANGED IAF FIX NAME FROM PINEL TO VOYYU.		

QUALITY  
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 CHECKED



RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE  
SBAS SERVICE PROVIDER IDENTIFIER  
AIRPORT IDENTIFIER  
RUNWAY  
APPROACH PERFORMANCE DESIGNATOR  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR  
REFERENCE PATH IDENTIFIER (APPROACH ID)  
LTP/FTP LATITUDE  
LTP/FTP LONGITUDE  
LTP/FTP ELLIPSOIDAL HEIGHT  
FPAP LATITUDE  
FPAP LONGITUDE  
THRESHOLD CROSSING HEIGHT (TCH)  
TCH UNITS SELECTOR (METERS OR FEET USED)  
GLIDEPATH ANGLE (GPA)  
COURSE WIDTH AT THRESHOLD  
LENGTH OFFSET  
HORIZONTAL ALERT LIMIT (HAL)  
VERTICAL ALERT LIMIT (VAL)

0  
0  
KGA  
RW17  
0  
0  
W17A  
482438.8045N  
0972157.1770W  
+02239  
482309.7600N  
0972157.2300W  
00040.0  
F  
03.00  
106.75  
1560  
40.0  
50.0

CRC REMAINDER

50D2084C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE  
LTP ORTHOMETRIC HEIGHT  
FPAP ORTHOMETRIC HEIGHT

K3  
+02505  
+02505

QUALITY  
CHECKED

CITY AND STATE

GRAFTON, ND

ELEVATION: 824 TDZE: 822

AIRPORT NAME:

HUTSON FIELD

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 17, ORIG

SUP:

AMDT: NONE

DATED:



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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	10	11	12	13
SUSAP KGAFK3FR17	AIKAFY	010IKAFYK3EA0E	A	IF					18000			A JS	G
SUSAP KGAFK3FR17	AIKAFY	020OHUTOK3EA0EE	B	010TF		08390050		+ 04000				A JS	G
SUSAP KGAFK3FR17	AOHUTO	010OHUTOK3EA0EE	AR	HF		17400040		+ 04000		18000		A JS	G
SUSAP KGAFK3FR17	AVOYU	010VOYUUK3EA0E	A	IF						18000		A JS	G
SUSAP KGAFK3FR17	AVOYU	020OHUTOK3EA0EE	B	010TF		26410050		+ 04000				A JS	G
SUSAP KGAFK3FR17	R	010OHUTOK3EA0E	I	IF				+ 04000		18000		A JS	G
SUSAP KGAFK3FR17	R	020DOPEQK3EA1E	F	051TF		17400061		+ 02300				A JS	G
SUSAP KGAFK3FR17	R	020DOPEQK3EA2WALPV			ALNAV/VNAV	ALNAV						JS	G
SUSAP KGAFK3FR17	R	021JARNK3EA0E	S	031TF		17400029		V 0136001374		-300		A JS	G
SUSAP KGAFK3FR17	R	030RW17 K3PG0GY	M	031TF		17400016		00862		-300		A JS	G
SUSAP KGAFK3FR17	R	040	0	M 010CA		1740		+ 01072				A JS	G
SUSAP KGAFK3FR17	R	050KUNKYK3EA0E		010DF								A JS	G
SUSAP KGAFK3FR17	R	060CEVYAK3EA0EY		010TF		2134		+ 04000				A JS	G
SUSAP KGAFK3FR17	R	070CEVYAK3EA0EE		R020HM		08390040		+ 04000				A JS	G

[illegible]

PAGE 4 OF 5 PAGES

QUALITY  
CHECKED

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

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[illegible]

QUALITY  
6  
CHECKED

ELEVATION: 824 TDZE: 822  
AIRPORT NAME:  
HUTSON FIELD

FACILITY IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 17, ORIG

SUP:	
AMDT:	NONE
DATED:	



# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

## PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
STRAIGHT-IN AREA	084/30 CW 264/30	OHUTO	1. TOWER (38-000688)	483838.00N/0975847.00W	2244 (4D)	1000	AT756	4000
			2. TERRAIN	483821.00N/0980939.00W	1638 (1600)		AS1500	3100
LEFT BASE AREA	264/30 CW 354/30	VOYYU	3. TOWER (27-001454)	483516.00N/0962942.00W	1376 (3C)	1000	AT1624	4000
			4. TERRAIN	482536.00N/0962848.00W	1119 (1100)		AS1500	2600
RIGHT BASE AREA	354/30 CW 084/30	IKAFY	1. TOWER (38-000688)	483838.00N/0975847.00W	2244 (4D)	1000	AT756	4000
			5. TERRAIN	483457.00N/0981312.00W	1647 (1600)		AS1500	3100
INITIAL	IKAFY	OHUTO	6. TOWER (38-000618)	483450.00N/0972813.00W	1166 (5D)	1000	AT1834	4000
			7. TERRAIN	483545.00N/0972927.00W	857 (900)		AS1500	2400
INITIAL	VOYYU	OHUTO	8. AAO	483654.00N/0972330.00W	1037 (4E)	1000	AT1963	4000
			9. TERRAIN	483654.00N/0972330.00W	837 (800)		AS1500	2300
INTERMEDIATE	OHUTO (IF/IAF)	DOPEQ	6. TOWER (38-000618)	483450.00N/0972813.00W	1166 (5D)	500		1700
			10. TERRAIN	483509.00N/0972757.00W	847 (800)		AS1500	2300
FINAL: LPV	DOPEQ	DA	11. RD(N) (KGAFT018)	482441.20N/0972152.65W	837 (2C)	34:1	AC20	1072/250
FINAL: LNAV/VNAV	DOPEQ	DA	12. TREE	482527.69N/0972206.54W	929 (2C)	23.4:1	AC20	1228/406
2. HOLD-IN-LIEU-OF-PT	OHUTO	P-5	15. TOWER (38-000462)	484147.49N/0972407.33W	1323 (5D)	1000	AT1677	4000
			16. TERRAIN	483530.00N/0972951.00W	860 (900)		AS1500	2400
3. MISSED APPROACH	MAP: DA/DA/RW17	CEVYA				ASC		4000
	ELEV: 885/950/950		17. AAO	481427.00N/0973139.00W	1076 (4E)	1000		2100
			18. TERRAIN	481512.00N/0973245.00W	883 (900)		AS1500	2400

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	516	19. TOWER (38-000656)	482505.00N/0972417.00W	986 (4D)	300	AC50	1340
CATEGORY B	1.5 NM		450		516	19. TOWER (38-000656)	482505.00N/0972417.00W	986 (4D)	300	AC50	1340
CATEGORY C	1.7 NM		450		516	19. TOWER (38-000656)	482505.00N/0972417.00W	986 (4D)	300	AC50	1340
CATEGORY D	2.3 NM		550								
CATEGORY E	4.5 NM		550								

## 5. MINIMUM SAFE ALTITUDES

## PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE	AIRPORT & ELEVATION	824	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
GRAFTON, ND	HUTSON FIELD		RNAV	RNAV (GPS) RWY 17, ORIG	AGL



## PART - A OBSTRUCTION DATA

PAGE 2 OF 2 PAGES



NOTES / EXPLANATIONS FROM OPPOSITE SIDE OF FORM:  
SEE ATTACHED AIRSPACE LETTER.

TAA'S DEVELOPED PER ATC/FPO REQUEST.

LPV SURFACE = 34:1

LNAV/VNAV:  
INNER SURFACE = 23.4:1  
OUTER SURFACE = 34:1

ISA DEVIATION -30

INTERMEDIATE OBSTACLES SAME FOR LPV, LNAV/VNAV AND LNAV.

100' USED FOR VEGETATION.

PARA 251, 20:1 PENETRATIONS (FPO NOTIFIED):  
KGAFT018 837' RD(N) 482441.20N/0972152.65W 13.04' PEN  
KGAFT016 837' RD(N) 482441.44N/0972203.00W 11.84' PEN  
KGAFT015 837' RD(N) 482443.41N/0972202.83W 1.86' PEN

PARA 251, 34:1 PENETRATIONS:  
KGAFT018 837' RD(N) 482441.20N/0972152.65W 13.93' PEN  
KGAFT016 837' RD(N) 482441.44N/0972203.00W 13.22' PEN  
KGAFT015 837' RD(N) 482443.41N/0972202.83W 7.35' PEN  
KGAFT012 837' RD(N) 482443.81N/0972152.64W 6.15' PEN  
KGAFT011 840' RD(N) 482444.95N/0972151.06W 5.75' PEN  
KGAFT008 840' RD(N) 482444.97N/0972158.28W 5.70' PEN  
KGAFT006 840' RD(N) 482444.98N/0972200.60W 5.67' PEN

S-17 (NOW LNAV MDA) AND CIRCLING MINIMUMS  
LOWERED/APPROVED BY FPO.

KGAF AWOS-3 NOT ON SERVICE A.  
KGFK ASOS IS ON SERVICE A.

RASS PRESSURE PATTERNS SAME  
KGAF 824.4, KGFK 844.6  
RA = 68.36

BARO-VNAV NA ABOVE 95C (203F), 54C (130F) PUBLISHED.

PART B - SUPPLEMENTAL DATA										
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING				
GRK APP CON GFK FSS ZMP ARTCC			<input type="checkbox"/> NWS		OTHER: AWOS-3		SOURCE:			
			<input type="checkbox"/> FAA				DISTANCE:			
			<input type="checkbox"/> A/C				HOURS REMOTE OPERATION:			
SATISFACTORY ON:			LOCATION:			ADJUSTMENT:				
<input checked="" type="checkbox"/> VHF <input checked="" type="checkbox"/> UHF <input type="checkbox"/> HF			KGAF							
HRS OPTN:										
4. MONITOR STATUS	PRIMARY					SECONDARY				
	NAVAID:					NAVAID:				
	MONITOR POINT:					MONITOR POINT:				
	HRS		CAT 1				HRS		CAT 1	
OPTN:		CAT 3				OPTN:		CAT 3		
5. AIRSPACE		FLOOR OF CONTROLLED AIRSPACE UNDER FAC					CONTROL AREA			
		CONTROL ZONE:					HOURS OPTN			
6. APPROACH & RUNWAY LIGHTING		ALS					REIL			
		(S) SALS					TDZ			
		MALS					C/LINE			
		HIRL					OTHER (SPECIFY)			
		<input checked="" type="checkbox"/> MIRL 17 (PCL), 35 (PCL)					<input checked="" type="checkbox"/> PAPI-2L 17 (PCL), 35 (PCL)			
7. RUNWAY MARKINGS					8. RUNWAY VISUAL RANGE					
ALL WEATHER					APPROACH					
INSTRUMENT NPI-P 17, 35					ROLL OUT					
9. GLIDE SLOPE		G S ANGLE: 3.00					ELEV RWY THRESHOLD: 821.8			
		DISTANCE FROM RWY:					ELEV GS ANTENNA:			
							THRESHOLD CROSSING HEIGHT: 40.0			
10. FINAL APPROACH COURSE AIMING			<input checked="" type="checkbox"/>	RUNWAY THRESHOLD				FT. FROM THRESHOLD		
			<input checked="" type="checkbox"/>	ON CENTERLINE				FT. FROM CENTERLINE		
11. WAIVERS OF STANDARDS			NUMBER OF WAIVERS ON FILE				DATES OF APPROVAL			
			NONE							
PART C - REMARKS: VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1. PARA 251, 20:1 PENETRATION. PARA 251, 34:1 PENETRATION. PRECIPITOUS TERRAIN EVALUATION COMPLETED.  BLOCK 2. HRS OPTN: 24.  BLOCK 3. ALTIMETER SETTING SOURCE: KGAF/KGFK, DISTANCE: /28.44, HRS REMOTE OPTN: 24/24, ADJUSTMENT: /68.3  VGSI DATA: 3.00/25.9.										
PART D - PREPARED BY: DONALD H. LANIER							DATE: 05/18/2010			
TITLE: AERONAUTICAL INFORMATION SPECIALIST							OFFICE: AVN-120			

QUALITY  
CHECKED