

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: RW17									
GTF VORTAC				KNOWL (TF) (FO) (RNP 2.00)				353.49 / 14.15				6700		CLIMB TO 9000 DIRECT NICKH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9000.									
JEBOB (IAF)				KNOWL (NOPT) (TF) (FB) (RNP 1.00)				104.56 / 14.92				6200											
RESLE (IAF)				KNOWL (NOPT) (TF) (FB) (RNP 1.00)				246.19 / 15.58				6200		ADDITIONAL FLIGHT DATA: HOLD S, RT, 347.02 INBOUND. FAS OBST: 3740 AAO 472928N/1112138W 3900 AAO 473518N/1112037W DISTANCE TO THLD FROM 250 HAT: 0.69 NM. CHART VDP AT 0.97 NM TO RW17* *LNAV ONLY. WAAS CHANNEL # 49240 REFERENCE PATH ID: W17A CHART CIRCLING ICON. LTP HAE: 1095.9 M									
KNOWL (IF/IAF)				GISKE (TF) (FB) (RNP 1.00)				167.02 / 5.99				5400											
GISKE (FAF)				RW17 (MAP) (TF) (FO) (RNP 0.30)				167.02 / 5.37															
(SEE FORM 8260-10)																							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																							
2. HOLD N KNOWL, RT, 167.02 INBOUND, 6200 FT. IN LIEU OF PT (IAF)																							
3. FAC: 167.02 FAF: GISKE DIST FAF TO MAP: 5.37 THLD: 5.37																							
4. MIN. ALT: KNOWL 6200, GISKE 5400																							
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																							
6. MIN GS INCPT: 5400 GS ALT AT: GISKE 5400 OM: _____ MM: _____ IM: _____																							
7. GS ANGLE: 3.00 TCH: 47.3 34:1 IS CLEAR																							
8. MSA FROM: RW17 8500																							
MAG VAR: 13E EPOCH YEAR: 2020																							
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	3910	7/8	250	3910	7/8	250	3910	7/8	250	3910	7/8	250											
LNAV/VNAV DA	3910	7/8	250	3910	7/8	250	3910	7/8	250	3910	7/8	250											
LNAV MDA	4000	1	340	4000	1	340	4000	1	340	4000	1	340											
CIRCLING	4120	1	440	4140	1	460	4320	1 3/4	640	4420	2 1/4	740											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C (-14F) OR ABOVE 52C (126F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GTF VORTAC AIRWAY RADIALS 277 CW 029.																							
CITY AND STATE GREAT FALLS, MT				ELEVATION: 3680 TDZE: 3660 AIRPORT NAME: GREAT FALLS INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, ORIG				SUP: AMDT: NONE DATED									

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH: <div><div>ATA<div><input checked="" type="checkbox"/></div></div><div>AAT<div><input type="checkbox"/></div></div><div>ALPA<div><input checked="" type="checkbox"/></div></div><div>APA<div><input checked="" type="checkbox"/></div></div><div>AOPA<div><input checked="" type="checkbox"/></div></div><div>NBAA<div><input checked="" type="checkbox"/></div></div><div>OTHER (specify)<div><input checked="" type="checkbox"/> ZLC, GTF ATCT, GTF APP CON, AFLD MGR</div></div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME: <div><div>Digitally signed by DEANNA M. FIELDS</div><div>May 14, 2017</div></div> <div>DEANNA M. FIELDS</div>				FIFO AJV-5432	DATE: 03/25/2017
APPROVED BY					
NAME: <div>PATRICK J. MULQUEEN</div>				FIFO AJV-5430	DATE:
CHANGES: ORIGINAL PROCEDURE					
REASONS:					



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
RW17 (MAP)	3910 MSL (CA)	167.02	
3910 MSL	NICKH (DF) (FO) (RNP 1.00)		9000

QUALITY
25
CHECKED

CITY AND STATE
GREAT FALLS, MT

ELEVATION: 3680 TDZE: 3660
AIRPORT NAME:
GREAT FALLS INTL

FACILITY
IDENTIFIER:
RNAV

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

SUP:
AMDT: NONE
DATED:

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - 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.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGTF
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	472941.1980N
LTP/FTP LONGITUDE	1112222.1900W
LTP/FTP ELLIPSOIDAL HEIGHT	+10959
FPAP LATITUDE	472812.1470N
FPAP LONGITUDE	1112222.2335W
THRESHOLD CROSSING HEIGHT (TCH)	00047.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0984
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 F84E5814

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11101
FPAP ORTHOMETRIC HEIGHT	+11101

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3660 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, ORIG	SUP:
				AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.			
FEEDER	GTF VORTAC	KNOWL	1. TOWER (30-000327)	473624.31N/1112133.68W	4621 (4D)	2000		6700			
			2. TERRAIN	473651.00N/1112106.00W	3885 (3900)		AS1500	5400			
INITIAL	JEBOB	KNOWL	3. AAO	474806.00N/1114321.00W	4272 (3E)	1000	AT928	6200			
			4. TERRAIN	474806.00N/1114321.00W	4072 (4100)		AS1500	5600			
INITIAL	RESLE	KNOWL	5. AAO	473836.00N/1112012.00W	4003 (3E)	1000	AT1197	6200			
			6. TERRAIN	473836.00N/1112012.00W	3803 (3800)		AS1500	5300			
INTERMEDIATE	KNOWL (IF/IAF)	GISKE	1. TOWER (30-000327)	473624.31N/1112133.68W	4621 (4D)	500		5200			
			7. TERRAIN	473636.00N/1111857.00W	3888 (3900)		AS1500	5400			
FINAL: LPV	GISKE	RW17	8. RD SIGN (KGTFT000493)	472943.18N/1112217.91W	3647 (1A)	34:1		3910/250			
FINAL: LNAV/VNAV	GISKE	RW17				ASC		3910/250			
FINAL: LNAV	GISKE	RW17	9. AAO	472928.23N/1112137.51W	3740 (2C)	250		4000			
2. HOLD-IN-LIEU-OF-PT	KNOWL	P-9	1. TOWER (30-000327)	473624.31N/1112133.68W	4621 (4D)	1000	AT579	6200			
			10. TERRAIN	474642.00N/1113057.00W	3993 (4000)		AS1500	5500			
3. MISSED APPROACH	MAP: DA / DA / RW17	NICKH				ASC		9000			
	ELEV: 3705/3731/3900		11. AAO	471800.00N/1111927.00W	4475 (3E)	1000		5500			
			12. TERRAIN	471800.00N/1111927.00W	4275 (4300)		AS1500	5800			
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	ACTUAL	350	440	13. TWR (30-000307)	472848.25N/1112134.69W	3818 (1A)	300		4120
CATEGORY B	1.5 NM			450	460	13. TWR (30-000307)	472848.25N/1112134.69W	3818 (1A)	300	HAA	4140
CATEGORY C	1.7 NM			450	640	14. WMILL (30-000620)	473021.99N/1112621.03W	4017 (1A)	300		4320
CATEGORY D	2.3 NM			550	740	15. TOWER (30-000084)	473207.50N/1111705.50W	4117 (3C)	300		4420
CATEGORY E	4.5 NM			550							
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID: RW17							
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	AAO	140/26.8	7415 (3E)	8500							
CITY AND STATE		ELEVATION: 3680		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION			
GREAT FALLS, MT		AIRPORT NAME: GREAT FALLS INTL		RNAV		RNAV (GPS) RWY 17, ORIG		ANM			

QUALITY
25

CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: THRESHOLD DISPLACED 230. PRECIPITOUS TERRAIN EVALUATION COMPLETED. ORDER 8260.3 CHAPTER 2 APPLIED TO 3900 AAO 473518N/1112037W CRITICAL TEMPERATURES: CRITICAL LOW :-26C (-14F) CRITICAL HIGH :+52C (+126F) ACT :-31C APT ISA :+7.71C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2012-2016). CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA. DESCENT RATE (FPM): STANDARD TEMP 1004 HIGH TEMP 1173. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.36NM CAT B: 1.94NM CAT C: 3.07NM CAT D: 4.02NM SEE ATTACHED AIRSPACE LETTER. PER FPT: RWY 17/35 PARALLEL TAXIWAY. KGTF ASOS ON WMSCR. NO SUITABLE BACKUP ALTIMETER AVAILABLE. LPV: SURFACE 34:1. LNAV/VNAV: SURFACE 23.85:1 VGSI DATA: 3.00/TCH 47.3 PER ATC: VEGETATION 100 FT USED. OBSTACLE #3, 5, AND #11 HORIZONTAL ACCURACY 82'.															
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																	
GTF APP CON GTF TOWER ZLC ARTCC				N W S		OTHER: ASOS		SOURCE: KGTF																	
								DISTANCE:																	
								HOURS REMOTE OPERATION:																	
SATISFACTORY ON:																									
<input checked="" type="checkbox"/> X	<input type="checkbox"/> V	<input type="checkbox"/> H	<input type="checkbox"/> F	<input checked="" type="checkbox"/> X	<input type="checkbox"/> U	<input type="checkbox"/> H	<input type="checkbox"/> F	LOCATION: KGTF												ADJUSTMENT: 0					
4. MONITOR STATUS		PRIMARY NAVAID:																							
		MONITOR POINT:																							
		HRS OPTN:		CAT 1																					
				CAT 3																					
5. APPROACH & RUNWAY LIGHTING		<input checked="" type="checkbox"/> X		ALSF-2 03																					
				(S) SALS																					
				MALS																					
		<input checked="" type="checkbox"/> X		HIRL 03, 17, 21, 35																					
				MIRL																					
		<input checked="" type="checkbox"/> X		REIL 21																					
		<input checked="" type="checkbox"/> X		TDZ 03																					
		<input checked="" type="checkbox"/> X		C/L 03, 21																					
		<input checked="" type="checkbox"/> X		OTHER (SPECIFY) PAPI-4R 21 PAPI-4L 03, 17, 35																					
6. RUNWAY MARKINGS		BASIC																							
		ALL WEATHER				PIR-G 03, 21																			
		INSTRUMENT				NPI-G 17, 35																			
7. RUNWAY VISUAL RANGE		APPROACH				03, 21																			
		MIDFIELD				03, 21																			
		ROLL OUT				03, 21																			
8. GLIDE PATH		GP ANGLE: 3.00						ELEV RWY THRESHOLD: 3642.0																	
		DISTANCE FROM RWY:						ELEV GP ANTENNA:																	
								THRESHOLD CROSSING HEIGHT: 47.3																	
9. FINAL APPROACH COURSE AIMING				<input checked="" type="checkbox"/> X		RUNWAY THRESHOLD				FT. FROM THRESHOLD															
				<input checked="" type="checkbox"/> X		ON CENTERLINE				FT. FROM CENTERLINE															
10. WAIVERS: NONE																									
PART D - PREPARED BY: DEANNA M. FIELDS										DATE: 03/25/2017															
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5432															

