

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: RW03 CLIMB TO 6200 DIRECT DEELM AND ON TRACK 031.62 TO PSHKN AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 211.70 INBOUND. CHART FAS OBST: 3802 RADAR 472735N/1112307W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.22 NM TO RW03* *LNAV ONLY. WAAS CHANNEL # 70602 REFERENCE PATH ID: W03A CHART CIRCLING ICON. LTP HAE: 1107.5 M								
GTF VORTAC		FRYMN (TF) (FO) (RNP 2.00)			212.00 / 13.36				8100										
WOKEN (IAF)		FRYMN (NOPT) (TF) (FB) (RNP 1.00)			026.90 / 24.34				8100										
ROSOE (IAF)		FRYMN (NOPT) (TF) (FB) (RNP 1.00)			081.84 / 18.37				8100										
HOXEK (IAF)		FRYMN (NOPT) (TF) (FB) (RNP 1.00)			344.59 / 10.92				8100										
FRYMN (IF/IAF) (SEE FORM 8260-10)		DCEEE (TF) (FB) (RNP 1.00)			031.81 / 7.89				6000										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW FRYMN, LT, 031.81 INBOUND, 8100 FT. IN LIEU OF PT (IAF) 3. FAC: 031.91 FAF: DCEEE DIST FAF TO MAP: 7.12 THLD: 7.12 4. MIN. ALT: FRYMN 8100, DCEEE 6000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 6000 GS ALT AT: DCEEE 6000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 53.6 34:1 IS CLEAR 8. MSA FROM: RW03 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	3880	2400	200	3880	2400	200	3880	2400	200	3880	2400	200							
LNAV/VNAV DA	3963	2400	283	3963	2400	283	3963	2400	283	3963	2400	283							
LNAV MDA	4140	2400	460	4140	2400	460	4140	4500	460	4140	4500	460							
CIRCLING	4140	1	460	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 -25C (-13F) OR ABOVE 50C (123F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT GREAT FALLS VORTAC ON AIRWAY RADIALS 169 CW 277. (CONTINUED ON PAGE 2)																			
CITY AND STATE GREAT FALLS, MT		ELEVATION: 3680 TDZE: 3680 AIRPORT NAME: GREAT FALLS INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 3, AMDT 3B					SUP: AMDT: 3A DATED 07/24/2014						

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
				ROUTINE	
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA
<div><input checked="" type="checkbox"/></div>	<div><input type="checkbox"/></div>	<div><input checked="" type="checkbox"/></div>	<div><input checked="" type="checkbox"/></div>	<div><input checked="" type="checkbox"/></div>	<div><input checked="" type="checkbox"/></div>
OTHER (specify) <u>AIRPORT MANAGER, ZLC, MT AERO, GTF ATCT, GTF APP CON</u>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
<div>Digitally signed by DEANNA M FIELDS</div> DEANNA M. FIELDS				AJV-5432	04/12/2017
May 14, 2017				APPROVED BY	
NAME:				FIFO	DATE:
PATRICK MULQUEEN				AJV-5430	
MANAGER					
CHANGES:					
<div>1. GTF VORTAC TO FRYMN COURSE CHANGED FROM 209.00 TO 212.00.</div> <div>2. WOKEN TO FRYMN COURSE CHANGED FROM 023.90 TO 026.90.</div> <div>3. ROSOE TO FRYMN COURSE CHANGED FROM 078.84 TO 081.84.</div> <div>4. HOXEK TO FRYMN COURSE CHANGED FROM 341.59 TO 344.59.</div> <div>5. FRYMN TO DCEEE COURSE CHANGED FROM 028.81 TO 031.81.</div> <div>6. DCEEE TO RW03 COURSE CHANGED FROM 028.91 TO 031.91.</div> <div>7. RW03 TO 3880 MSL COURSE CHANGED FROM 028.91 TO 031.91.</div> <div>8. DEELM TO PSHKN COURSE CHANGED FROM 028.62 TO 031.62.</div> <div>9. FAC CHANGED FROM 028.91 TO 031.91.</div> <div>10. MISSED APPROACH TRACK CHANGED FROM 028.62 TO 031.62.</div> <div>11. MISSED APPROACH HOLDING INBOUND COURSE CHANGED FROM 208.70 TO 211.70.</div> <div>12. HOLD-IN-LIEU-OF-PT COURSE INBOUND CHANGED FROM 028.81 TO 031.81.</div> <div>13. LNAV CONTROLLING OBSTACLE CHANGED FROM 3791 TOWER TO 3802 RADAR, MINIMUMS REMAIN THE SAME.</div> <div>14. ADDED CHART CIRCLING ICON.</div> <div>(SEE FORM 8260-10)</div>					
REASONS:					
<div>1-12. AIRPORT MAG VAR CHANGED FROM 16E/1990 TO 13E/2020.</div> <div>13. NEW LNAV CONTROLLING OBSTACLE.</div> <div>14. NEW CIRCLING RADII.</div> <div>15 NEW CONTROLLING OBSTACLE.</div> <div>16-18. LARGER CIRCLING RADII AND NEW OBSTACLES.</div> <div>19-20. BASED ON 5 YEARS WEATHER DATA.</div> <div>23. LNAV/VNAV DA/HAT INCREASED.</div>					



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
DCEEE (FAF)	RW03 (MAP) (TF) (FO) (RNP 0.30)	031.91 / 7.12	
RW03 (MAP)	3880 MSL (CA)	031.91	
3880 MSL	DEELM (DF) (FB) (RNP 1.00)		
DEELM	PSHKN (TF) (FO) (RNP 1.00)	031.62 / 10.69	6200

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.

QUALITY
25
CHECKED

CITY AND STATE
GREAT FALLS, MT

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

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 3, AMDT 3B

SUP:
 AMDT: 3A
 DATED: 07/24/2014

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
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: CHANGES CONT. 15. LNAV/VNAV DA/HAT CHANGED FROM 3952/272 TO 3963/283 ALL CATS. 16. CIRCLING CAT C MDA/HAT CHANGED FROM 4140/460 TO 4320/640. VIS CHANGED FROM 1 1/2 TO 1 3/4. 17. CIRCLING CAT D MDA/HAT CHANGED FROM 4240/560 TO 4420/740. VIS CHANGED FROM 2 TO 2 1/4. 18. ADDED NONSTANDARD MINIMUMS @ CAT D 800-2 1/4. 19. UPDATED BARO LOW TEMP FROM -22C (-7F) TO -25C (-13F). 20. UPDATED BARO HIGH TEMP FROM 21C (69F) TO 50C (123F).					
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	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	472809.6350N
LTP/FTP LONGITUDE	1112301.7860W
LTP/FTP ELLIPSOIDAL HEIGHT	+11075
FPAP LATITUDE	472922.8900N
FPAP LONGITUDE	1112113.6600W
THRESHOLD CROSSING HEIGHT (TCH)	00053.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 3485EC4D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+11217
FPAP ORTHOMETRIC HEIGHT	+11217

QUALITY
25
CHECKED

CITY AND STATE GREAT FALLS, MT	ELEVATION: 3680 AIRPORT NAME: GREAT FALLS INTL	TDZE: 3680 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 3, AMDT 3B	SUP:
				AMDT: 3A
				DATED: 07/24/2014

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>
NBAA <div><input type="checkbox"/></div>		OTHER (specify) <div><input type="checkbox"/></div> <div></div>			
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		FRYMN		1. AAO		472406.00N/1112457.00W		3973 (4E)		2000		AT2127		8100			
						2. TERRAIN		472409.00N/1112503.00W		3773 (3800)				AS1500		5300			
INITIAL		WOKEN		FRYMN		3. AAO		470542.00N/1114651.00W		6828 (4E)		1000		PR189		8100			
						4. TERRAIN		470542.00N/1114651.00W		6628 (6600)				AS1500		8100			
INITIAL		ROSOE		FRYMN		5. AAO		471727.00N/1115148.00W		5807 (4E)		1000		AT1293		8100			
						6. TERRAIN		471727.00N/1115148.00W		5607 (5600)				AS1500		7100			
INITIAL		HOXEK		FRYMN		7. AAO		470536.00N/1113933.00W		6897 (4E)		1000				7900			
						8. TERRAIN		470839.60N/1113914.30W		6629 (6600)				AS1500		8100			
INTERMEDIATE		FRYMN (IF/IAF)		DCEEE		9. AAO		471945.00N/1113212.00W		3905 (4E)		500		AC98 DG1497		6000			
						10. TERRAIN		471945.00N/1113212.00W		3705 (3700)				AS1500		5200			
FINAL: LPV		DCEEE		RW03								ASC				3880/200			
FINAL: LNAV/VNAV		DCEEE		RW03		11. RADAR		472734.77N/1112307.13W		3802 (1A)		161				3963/283			
						(KGTFT000434)													
2. HOLD-IN-LIEU-OF-PT		FRYMN		P-9		12. AAO		470624.00N/1114706.00W		6739 (4E)		1000		AT183 PR178		8100			
						13. TERRAIN		470624.00N/1114706.00W		6539 (6500)				AS1500		8000			
3. MISSED APPROACH	MAP:		DA / DA / RW03		PSHKN								ASC				6200		
	ELEV:		3713/3802/3984				14. TOWER (30-000084)		473207.50N/1111705.50W		4117 (3C)		1000				5200		
							15. TERRAIN		473448.00N/1111327.00W		3711 (3700)				AS1500		5200		
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	460	16. TWR (30-000307)		472848.25N/1112134.69W		3818 (1A)		300		SI 4140			
CATEGORY B		1.5 NM			450		460	16. TWR (30-000307)		472848.25N/1112134.69W		3818 (1A)		300		SI 4140			
CATEGORY C		1.7 NM			450		640	17. WMILL (30-000620)		473021.99N/1112621.03W		4017 (1A)		300		4320			
CATEGORY D		2.3 NM			550		740	18. TOWER (30-000084)		473207.50N/1111705.50W		4117 (3C)		300		4420			
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: RW03																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL) M S A			
360-360		AAO		140/29.0		7500 (4E)		8500											
CITY AND STATE				ELEVATION: 3680				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
GREAT FALLS, MT				AIRPORT NAME: GREAT FALLS INTL				RNAV				RNAV (GPS) Y RWY 3, AMDT 3B				ANM			

QUALITY
25
CHECKED

PART B - SUPPLEMENTAL DATA										<div>PART C - REMARKS:</div> <div>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</div> <div>PER FLIGHT CHECK RDH 53.6 FT.</div> <div>CRITICAL TEMPERATURES: CRITICAL LOW :-25C (-13F) CRITICAL HIGH :+50C (+123F) ACT :-31C APT ISA :+7.71C</div> <div>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 1005 HIGH TEMP 1173.</div> <div>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</div> <div>NO ADDITIONAL AIRSPACE REQUIRED.</div> <div>VGSI DATA: 3.00/69.5</div> <div>KGTF ASOS ON WMSCR.</div> <div>NO SUITABLE BACKUP ALTIMETER AVAILABLE.</div> <div>PER ATC: VEGETATION 100 FT USED.</div> <div>LPV: SURFACE 34:1.</div> <div>LNAV/VNAV: SURFACE 23.74:1.</div> <div>LNAV FINAL XP 32: TO ALIGN WITH PUBLISHED MINIMUMS.</div>																			
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE															3. ALTIMETER SETTING									
ZLC ARTCC GTF APP CON GTF TOWER							N W S		OTHER: ASOS											SOURCE:KGTF									
							F A A													DISTANCE:									
							A / C													HOURS REMOTE OPERATION:									
SATISFACTORY ON:																				LOCATION: KGTF					ADJUSTMENT: 0				
4. MONITOR STATUS		PRIMARY NAVAID:																		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 1005 HIGH TEMP 1173.									
		MONITOR POINT:																											
		HRS OPTN:		CAT 1				CAT 3																					
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 03																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									
				(S) SALS																									
				MAL S																									
		X		HIRL 03, 17, 21, 35																									
				MIRL																									
		X		REIL 21																									
		X		TDZ 03																									
		X		C/L 03, 21																									
6. RUNWAY MARKINGS				BASIC								NO ADDITIONAL AIRSPACE REQUIRED.																	
				ALL WEATHER PIR-G 03, 21																									
				INSTRUMENT NPI-G 17, 35																									
7. RUNWAY VISUAL RANGE				APPROACH 03, 21								VGSI DATA: 3.00/69.5																	
				MIDFIELD 03, 21																									
				ROLL OUT 03, 21																									
8. GLIDE PATH		GP ANGLE: 3.00				ELEV RWY THRESHOLD:3680.0						KGTF ASOS ON WMSCR.																	
		DISTANCE FROM RWY:				ELEV GP ANTENNA:																							
						THRESHOLD CROSSING HEIGHT:53.6																							
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD				FT. FROM THRESHOLD						NO SUITABLE BACKUP ALTIMETER AVAILABLE.													
				X		ON CENTERLINE				FT. FROM CENTERLINE																			
10. WAIVERS: NONE															<div>QUALITY 25 CHECKED</div>														
PART D - PREPARED BY: DEANNA M. FIELDS										DATE: 04/12/2017																			
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5432																			

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING				
SATISFACTORY ON:					N W S	OTHER:		SOURCE:			
					F A A			DISTANCE:			
					A / C			HOURS REMOTE OPERATION:			
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:		
4. MONITOR STATUS		PRIMARY NAVAID:									
		MONITOR POINT:									
		HRS	CAT 1								
		OPTN:	CAT 3								
5. APPROACH & RUNWAY LIGHTING			ALS								
			(S) SALS								
			MALS								
			HIRL								
			MIRL								
			REIL								
			TDZ								
			C/LINE								
6. RUNWAY MARKINGS		BASIC									
		ALL WEATHER									
		INSTRUMENT									
7. RUNWAY VISUAL RANGE		APPROACH									
		MIDFIELD									
		ROLL OUT									
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:					
		DISTANCE FROM RWY:				ELEV GP ANTENNA:					
						THRESHOLD CROSSING HEIGHT:					
9. FINAL APPROACH COURSE AIMING				RUNWAY THRESHOLD					FT. FROM THRESHOLD		
				ON CENTERLINE					FT. FROM CENTERLINE		
10. WAIVERS:											
PART D - PREPARED BY:										DATE:	
TITLE:										OFFICE:	