

RADIO FIX AND HOLDING DATA RECORD

NAME: GISKE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 473503.28N/1112222.03W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 17

FAC PAT

AIRPORT IDENT CITY
KGTF GREAT FALLS

STATE
MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/17/2017

DEVELOPED BY: DATE: 03/21/2017

OFFICE: AJV-5432

NAME: DEANNA FIELDS

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GTF
OTHER:

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GREAT FALLS VORTAC

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472659.93N/1112443.79W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	GREAT FALLS	GTF	VORTAC	H						45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	GTF	VORTAC	208.88	028.88	R	1	8000 14000	8 14
2	NE	GTF	VORTAC	028.77	208.77	R	1	6300 14000	8 14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	471759.56N/1111512.56W	4719	2C
UPN	230	AAO	472555.00N/1114501.90W	4997	6A
1	230	AAO	472042.00N/1111909.00W	4334	4E
1	310	AAO	470846.06N/1113918.29W	6829	2A
2	230	TOWER (30-000327)	473624.31N/1112133.68W	4621	4D
2	310	TOWER (30-000327)	473624.31N/1112133.68W	4621	4D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE MEA.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 21	KGTF	GREAT FALLS	MT (US)
2	VOR RWY 3	KGTF	GREAT FALLS	MT (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR 16E.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	SIEBE			KHLN	HELENA	MT (US)
DP	STAKK			KHLN	HELENA	MT (US)
DP	BILLINGS			K6S8	LAUREL	MT (US)
EN ROUTE	J13					(US)
EN ROUTE	J13-516					(US)
EN ROUTE	J36					(US)
EN ROUTE	J36-203-204					(US)
EN ROUTE	J569					(US)
EN ROUTE	J7					(US)
EN ROUTE	J7-530					(US)
EN ROUTE	J9					(US)
EN ROUTE	V120					(US)
EN ROUTE	V187					(US)
EN ROUTE	V21					(US)
EN ROUTE	V257					(US)
EN ROUTE	V536					(US)
IAP	VOR/DME OR GPS-A			K3U3	ANACONDA	MT (US)
IAP	ILS OR LOC RWY 3			KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (CAT II)			KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (CAT III)			KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (SA CAT 1)			KGTF	GREAT FALLS	MT (US)
IAP	NDB RWY 34			KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) RWY 17			KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) RWY 35			KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) Y RWY 3			KGTF	GREAT FALLS	MT (US)
IAP	VOR RWY 21		1	KGTF	GREAT FALLS	MT (US)
IAP	VOR RWY 3		2	KGTF	GREAT FALLS	MT (US)
IAP	ILS OR LOC Y RWY 27			KHLN	HELENA	MT (US)
IAP	ILS OR LOC Z RWY 27			KHLN	HELENA	MT (US)
IAP	LOC/DME BC-C			KHLN	HELENA	MT (US)
IAP	VOR-A			KHLN	HELENA	MT (US)
IAP	VOR/DME-B			KHLN	HELENA	MT (US)

REQUIRED CHARTING: DP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH



COMPULSORY REPORTING POINT: NO**RECORD REVISION NUMBER: 16****DATE OF REVISION: 08/17/2017****REASON FOR REVISION:**

ADDED IAP KGTF RNAV (GPS) RWY 17/35.
IAP KGTF ILS OR LOC/DME RWY 3 CHANGED TO ILS OR LOC RWY 3.
IAP KGTF VOR/DME RWY 3 CHANGED TO VOR RWY 3
REMARK ADDED ASSIGNED FACILITY MAGVAR 16E.
PATTERN 2 RAD/CRS/BRG CHANGED FROM 028.78 TO 028.77.
PATTERN 2 CRS INBOUND CHANGED FROM 208.78 TO 208.77.
DELETED PATTERN 2 AIRSPEED 200 CONTROLLING OBSTRUCTION DATA.
ADDED PATTERN 2 AIRSPEED 230 CONTROLLING OBSTRUCTION DATA
PATTERN 1 RAD/CRS/GRG CHANGED FROM 208.78 TO 028.88.
PATTERN 1 CRS INBOUND CHANGED FROM 028.78 TO 028.88.
PATTERN 1 ADDED 310 C-I-H.
PATTERN 1 MIN HOLDING ALTITUDE CHANGED FROM 5500 TO 8000.
PATTERN 2 MIN HOLDING ALTITUDE CHANGED FROM 5700 TO 8000.
PATTERN 1 & 2 MAX TEMPLATE CHANGED FROM 10 TO 14.
PATTERN 1 & 2 MIN TEMPLATE CHANGED FROM 5 TO 8.
PROCEDURES REQUIRING CLIMB-IN-HOLD: ADDED GTF VOR RWY 21.

DEVELOPED BY:**DATE:** 03/21/2017**OFFICE:** AJV-5432**NAME:** DEANNA FIELDS**APPROVED BY:****DATE:****OFFICE:** AJV-5430**NAME:** PATRICK MULQUEEN**SIGNATURE:****DISTRIBUTION:**

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GTF
OTHER:

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JEBOB

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 474758.36N/1114156.71W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	GREAT FALLS	GTF	VORTAC	H	315.08	331.08	24.00	24.00		6000	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V21	1				(US)
IAP	RNAV (GPS) RWY 17			KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/17/2017

DEVELOPED BY: DATE: 03/21/2017

OFFICE: AJV-5432

NAME: DEANNA FIELDS

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OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GTF
OTHER:

QUALITY
25
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RADIO FIX AND HOLDING DATA RECORD

NAME: KNOWL

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 474102.71N/1112221.86W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	N		WP	347.02	167.02	R	7	6200	10000	9	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (30-000327)	473624.31N/1112133.68W	4621	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 17		1	KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) RWY 35		1	KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/17/2017

DEVELOPED BY: DATE: 03/21/2017

OFFICE: AJV-5432

NAME: DEANNA FIELDS

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GTF
OTHER:

QUALITY
25
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NICKH STATE: MT COUNTRY: US ICAO REGION CODE: K1
 LATITUDE/LONGITUDE: 471511.15N/1112222.61W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES		TEMPLATES	
PAT	DIR								MIN	MAX	MIN	MAX
1	S		WP	167.02	347.02	R	7	9000	10000	10	16	
2	S		WP	167.02	347.02	R	7	8000	10000	9	10	

CONTROLLING OBSTRUCTIONS:			COORDINATES	ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION			
1	230	AAO	470715.00N/1111309.00W	6723	3E
1	310	AAO	465951.00N/1110545.00W	7589	3E
2	230	AAO	470715.00N/1111254.00W	6670	3E

PRECIPITOUS TERRAIN ADDITIONS:		
PAT	SPEED	ADDITION
1	230	220
1	310	290
2	230	210

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:				
PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 17	KGTF	GREAT FALLS	MT (US)

REMARKS:
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 C-I-H EVALUATED WITH PATTERN 16.

FIX USE:		USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE							
IAP		RNAV (GPS) RWY 17		1	KGTF	GREAT FALLS	MT (US)
IAP		RNAV (GPS) RWY 35		2	KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 08/17/2017

DEVELOPED BY:	DATE: 03/21/2017	OFFICE: AJV-5430	NAME: DEANNA FIELDS
APPROVED BY:	DATE:	OFFICE: AJV-5432	NAME: PATRICK MULQUEEN
SIGNATURE:			

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZLC
 ATC FACILITY: GTF
 OTHER:

QUALITY
 25
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RESLE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 474400.19N/1105943.27W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	GREAT FALLS	GTF	VORTAC	H	028.70	044.70	24.00	24.00		6200	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V257					(US)
IAP	RNAV (GPS) RWY 17			KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/17/2017

DEVELOPED BY: DATE: 03/21/2017

OFFICE: AJV-5432

NAME: DEANNA FIELDS

APPROVED BY: DATE:

OFFICE: AJV-5430

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DISTRIBUTION:

NFDC
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ATC FACILITY: GFT
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QUALITY
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