

RADIO FIX AND HOLDING DATA RECORD

NAME: DCEEE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472307.66N/1113026.06W

TYPE: WP, DME

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	FEET	MRA	MAA
1	GREAT FALLS	I-SMR	LOC/DME		212.00	225.00	9.04	9.04	54930	6000	8100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 3	1		KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (CAT II)	1		KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (CAT III)	1		KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (SA CAT 1)	1		KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) Y RWY 21			KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) Y RWY 3			KGTF	GREAT FALLS	MT (US)
IAP	RNAV (RNP) Z RWY 3			KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

FIX USE IAP KGTF ILS OR LOC/DME RWY 3 CHANGED TO ILS OR LOC RWY 3.

DEVELOPED BY: DATE: 04/10/2017

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: FRYMN **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 471732.40N/1113836.84W **TYPE:** WP, DME

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	MAA
1	GREAT FALLS	I-SMR	LOC		212.00	225.00	16.93	16.93	8300	10000
2	GREAT FALLS	GTF	VORTAC	H	209.00	225.00	13.36	13.36	8300	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-SMR	LOC	R-212	17	8300	10000

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		WP	211.81	031.81	L		7	8000	14000	9	11
2	SW	I-SMR	LOC/DME	212.00	032.00	L	1		8300	10000	10	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	470624.00N/1114706.00W	6739	4E
2	230	AAO	470545.00N/1114630.00W	6989	4E
2	310	AAO	470427.50N/1114224.80W	7293	6C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	179
2	230	191

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID HIGHER TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 3	KGTF	GREAT FALLS	MT (US)
2	ILS RWY 3 (CAT II, CAT III)	KGTF	GREAT FALLS	MT (US)
2	ILS RWY 3 (SA CAT 1)	KGTF	GREAT FALLS	MT (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 3	1, 2	2	KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (CAT II, CAT III)	1, 2	2	KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (SA CAT 1)	1, 2	2	KGTF	GREAT FALLS	MT (US)
IAP	RNAV (GPS) Y RWY 3		1	KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

HOLDING PAT 1 RAD/CRS/BRG CHANGED FROM 208.31 TO 211.81.
HOLDING PAT 1 CRS INBOUND CHANGED FROM 028.31 TO 031.81.
FIX USE KGTF ILS OR LOC/DME RWY 3 CHANGED TO ILS OR LOC RWY 3.
REMOVED FROM REMARKS "NAME CHANGED FROM UCBUN TO FRYMN".

DEVELOPED BY: **DATE:** 04/08/2017 **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:

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:

RADIO FIX AND HOLDING DATA RECORD

NAME: HOXEK

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470638.16N/1113756.35W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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	187.90	203.90	22.27	22.27		10000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V21	1				MT (US)
IAP	ILS OR LOC RWY 3	1		KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (CAT II, CAT III)	1		KGTF	GREAT FALLS	MT (US)
IAP	ILS RWY 3 (SA CAT 1)	1		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)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

ADDED IAP KGTF RNAV (GPS) RWY 35 TO FIX USE.
IAP KGTF ILS OR LOC/DME RWY 3 CHANGED TO ILS OR LOC RWY 3.

DEVELOPED BY:

DATE: 03/23/2017

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: