

RADIO FIX AND HOLDING DATA RECORD

NAME: CHEYENNE VORTAC STATE: WY COUNTRY: US ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 411239.48N/1044622.49W 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	MAA
1	CHEYENNE	CYS	VORTAC	H						45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	N	CYS	VORTAC	016.00	196.00	R	1		8000	17500	8	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	411400.00N/1045518.00W	6680	4E
1	310	TOWER (56-000244)	410855.55N/1045724.43W	6940	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 27	KCYS	CHEYENNE	WY (US)
1	VOR OR TACAN-A	KCYS	CHEYENNE	WY (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR 13E

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	YELLOWSTONE			KBKF	AURORA	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	YELLOWSTONE			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	YELLOWSTONE			KBJC	DENVER	CO (US)
DP	DENVER			KCFO	DENVER	CO (US)
DP	YELLOWSTONE			KCFO	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	YELLOWSTONE			KDEN	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	YELLOWSTONE			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	CASPER			KCPR	CASPER	WY (US)
EN ROUTE	J13					(US)
EN ROUTE	J148					(US)
EN ROUTE	J17					(US)
EN ROUTE	J175					(US)
EN ROUTE	V118					(US)
EN ROUTE	V132					(US)
EN ROUTE	V138					(US)
EN ROUTE	V361					(US)
EN ROUTE	V547					(US)
EN ROUTE	V611					(US)
EN ROUTE	V81					(US)
EN ROUTE	V89					(US)
IAP	ILS OR LOC RWY 35 (ALT MISS)			KGXY	GREELEY	CO (US)
IAP	ILS OR LOC RWY 27		1	KCYS	CHEYENNE	WY (US)
IAP	RNAV (GPS) RWY 09			KCYS	CHEYENNE	WY (US)
IAP	RNAV (GPS) RWY 13			KCYS	CHEYENNE	WY (US)
IAP	RNAV (GPS) RWY 27			KCYS	CHEYENNE	WY (US)
IAP	RNAV (GPS) RWY 31			KCYS	CHEYENNE	WY (US)
IAP	VOR OR TACAN-A		1	KCYS	CHEYENNE	WY (US)
IAP	NDB RWY 10			KTOR	TORRINGTON	WY (US)
IAP	NDB RWY 28			KTOR	TORRINGTON	WY (US)
STAR	LANDR			KBKF	AURORA	CO (US)
STAR	RAMMS			KBKF	AURORA	CO (US)
STAR	TOMSN			KBKF	AURORA	CO (US)
STAR	LANDR			KAPA	DENVER	CO (US)
STAR	RAMMS			KAPA	DENVER	CO (US)
STAR	TOMSN			KAPA	DENVER	CO (US)
STAR	LANDR			KBJC	DENVER	CO (US)

STAR	RAMMS	KBJC	DENVER	CO (US)
STAR	TOMSN	KBJC	DENVER	CO (US)
STAR	LANDR	KCFO	DENVER	CO (US)
STAR	RAMMS	KCFO	DENVER	CO (US)
STAR	TOMSN	KCFO	DENVER	CO (US)
STAR	LANDR	KDEN	DENVER	CO (US)
STAR	RAMMS	KDEN	DENVER	CO (US)
STAR	TOMSN	KDEN	DENVER	CO (US)
STAR	LANDR	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	RAMMS	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	TOMSN	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LANDR	KGXY	GREELEY	CO (US)
STAR	RAMMS	KGXY	GREELEY	CO (US)
STAR	TOMSN	KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21

DATE OF REVISION: 01/30/2020

REASON FOR REVISION:

FIX USE: CHANGED AIRPORT ID FROM FTG (FRONT RANGE) TO KCFO (COLORADO AIR AND SPACE PORT); ADDED GXY ILS OR LOC RWY 35 (ALT MISS); REMOVED CYS RADAR-1.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE: 10/21/2019

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZDV

ATC FACILITY: CHEYENNE APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: COPLA

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 404940.37N/1040545.41W

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	DENVER	DEN	VOR/DME	H	014.88	022.88	66.17	66.17		9000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DEN	VOR/DME	R-015	67	9000	20000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE	1		KBKF	AURORA	CO (US)
DP	YELLOWSTONE	1		KAPA	DENVER	CO (US)
DP	YELLOWSTONE	1		KBJC	DENVER	CO (US)
DP	YELLOWSTONE	1		KCFO	DENVER	CO (US)
DP	YELLOWSTONE	1		KDEN	DENVER	CO (US)
DP	YELLOWSTONE	1		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE	1		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

REMOVED DP YOKES (RNAV) AT KAPA, KBJC, KCFO, KDEN, AND KFNL FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTINE BAYSE

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GILL VOR/DME STATE: CO COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 403013.92N/1043310.85W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	GILL	GLL	VOR/DME	VH						45000

FIX RESTRICTIONS:

MCA V220 14500 SOUTHWEST BOUND.

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

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	NE	GLL	VOR/DME	025.00	205.00	R	1	6800 17500	8 16
2	NE		WP	030.00	210.00	R	7	10000 14000	10 11
3	NE		WP	028.00	208.00	R	7	7200 10000	9 10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	404400.00N/1042921.00W	5460	4E
1	310	TOWER (08-001084)	403830.93N/1044904.89W	6000	4D
2	230	AAO	404527.00N/1042942.00W	5568	4E
3	230	AAO	404436.00N/1042927.00W	5522	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	T/O MINS AND DP	KFNL	FORT COLLINS/LOVELAND	CO (US)
1	T/O MINS AND DP	KGXY	GREELEY	CO (US)

REMARKS:

MAG VAR: 1970/E13.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	YELLOWSTONE			KBKF	AURORA	CO (US)
DP	BAYLR (RNAV)			KAPA	DENVER	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	YELLOWSTONE			KAPA	DENVER	CO (US)
DP	BAYLR (RNAV)			KBJC	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	YELLOWSTONE			KBJC	DENVER	CO (US)
DP	BAYLR (RNAV)			KCFO	DENVER	CO (US)
DP	DENVER			KCFO	DENVER	CO (US)
DP	YELLOWSTONE			KCFO	DENVER	CO (US)
DP	BAYLR (RNAV)			KDEN	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	YELLOWSTONE			KDEN	DENVER	CO (US)
DP	BAYLR (RNAV)			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	T/O MINS AND DP		1	KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	T/O MINS AND DP		1	KGXY	GREELEY	CO (US)
DP	YELLOWSTONE			KGXY	GREELEY	CO (US)
DP	T/O MINS AND DP			KLMO	LONGMONT	CO (US)
EN ROUTE	V101					(US)
EN ROUTE	V207					(US)
EN ROUTE	V220					(US)
EN ROUTE	V4					(US)
EN ROUTE	V611					(US)
EN ROUTE	V89					(US)
IAP	ILS OR LOC RWY 30R			KBJC	DENVER	CO (US)
IAP	ILS OR LOC RWY 35			KCFO	DENVER	CO (US)
IAP	ILS OR LOC RWY 25			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 26		1	KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 34L			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 34R			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 35L		1	KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 35R			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 8			KDEN	DENVER	CO (US)

IAP	ILS RWY 34L (CAT II - III)		KDEN	DENVER	CO (US)
IAP	ILS RWY 34L (SA CAT I)		KDEN	DENVER	CO (US)
IAP	ILS RWY 34R (CAT II - III)		KDEN	DENVER	CO (US)
IAP	ILS RWY 34R (SA CAT I)		KDEN	DENVER	CO (US)
IAP	ILS RWY 35L (CAT II/CAT III)		KDEN	DENVER	CO (US)
IAP	ILS RWY 35L (SA CAT I)		KDEN	DENVER	CO (US)
IAP	ILS RWY 35R (CAT II - III)		KDEN	DENVER	CO (US)
IAP	ILS RWY 35R (SA CAT I)		KDEN	DENVER	CO (US)
IAP	LOC RWY 34R		KDEN	DENVER	CO (US)
IAP	RNAV (GPS) Y RWY 35L	2	KDEN	DENVER	CO (US)
IAP	RNAV (RNP) Z RWY 35L	2	KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 33	1	KFNL	FORT COLLINS/LOVELAND	CO (US)
IAP	RNAV (GPS) RWY 33		KFNL	FORT COLLINS/LOVELAND	CO (US)
IAP	VOR-A		KFNL	FORT COLLINS/LOVELAND	CO (US)
IAP	ILS OR LOC RWY 35		KGXY	GREELEY	CO (US)
IAP	RNAV (GPS) RWY 17		KGXY	GREELEY	CO (US)
IAP	RNAV (GPS) RWY 28		KGXY	GREELEY	CO (US)
IAP	RNAV (GPS) RWY 35		KGXY	GREELEY	CO (US)
IAP	VOR-A		KGXY	GREELEY	CO (US)
IAP	RNAV (GPS)-B	3	KLMO	LONGMONT	CO (US)
IAP	VOR/DME-A	1	KLMO	LONGMONT	CO (US)
IAP	ILS OR LOC RWY 27		KCYS	CHEYENNE	WY (US)
STAR	DANDD		KBKF	AURORA	CO (US)
STAR	LANDR		KBKF	AURORA	CO (US)
STAR	LARKS		KBKF	AURORA	CO (US)
STAR	POWDR		KBKF	AURORA	CO (US)
STAR	QUAIL		KBKF	AURORA	CO (US)
STAR	RAMMS		KBKF	AURORA	CO (US)
STAR	TOMSN		KBKF	AURORA	CO (US)
STAR	DANDD		KAPA	DENVER	CO (US)
STAR	LANDR		KAPA	DENVER	CO (US)
STAR	LARKS		KAPA	DENVER	CO (US)
STAR	POWDR		KAPA	DENVER	CO (US)
STAR	QUAIL		KAPA	DENVER	CO (US)
STAR	RAMMS		KAPA	DENVER	CO (US)
STAR	TOMSN		KAPA	DENVER	CO (US)
STAR	DANDD		KBJC	DENVER	CO (US)
STAR	LANDR		KBJC	DENVER	CO (US)
STAR	LARKS		KBJC	DENVER	CO (US)
STAR	POWDR		KBJC	DENVER	CO (US)
STAR	QUAIL		KBJC	DENVER	CO (US)
STAR	RAMMS		KBJC	DENVER	CO (US)
STAR	TOMSN		KBJC	DENVER	CO (US)
STAR	DANDD		KCFO	DENVER	CO (US)
STAR	LANDR		KCFO	DENVER	CO (US)
STAR	LARKS		KCFO	DENVER	CO (US)
STAR	POWDR		KCFO	DENVER	CO (US)
STAR	QUAIL		KCFO	DENVER	CO (US)
STAR	RAMMS		KCFO	DENVER	CO (US)
STAR	TOMSN		KCFO	DENVER	CO (US)
STAR	DANDD		KDEN	DENVER	CO (US)
STAR	LANDR		KDEN	DENVER	CO (US)
STAR	LARKS		KDEN	DENVER	CO (US)
STAR	POWDR		KDEN	DENVER	CO (US)
STAR	QUAIL		KDEN	DENVER	CO (US)
STAR	RAMMS		KDEN	DENVER	CO (US)
STAR	TOMSN		KDEN	DENVER	CO (US)
STAR	BRNKO (RNAV)		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	DANDD		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LANDR		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	POWDR		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	RAMMS		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	TOMSN		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	BRNKO (RNAV)		KGXY	GREELEY	CO (US)
STAR	DANDD		KGXY	GREELEY	CO (US)
STAR	LANDR		KGXY	GREELEY	CO (US)
STAR	LARKS		KGXY	GREELEY	CO (US)
STAR	POWDR		KGXY	GREELEY	CO (US)
STAR	QUAIL		KGXY	GREELEY	CO (US)
STAR	RAMMS		KGXY	GREELEY	CO (US)
STAR	TOMSN		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: SECTIONAL, DP, STAR, MILITARY IAP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: CHANGED NAVAID CLASS FROM H TO VH.
2. REQUIRED CHARTING: ADDED SECTIONAL TO REQUIRED CHARTING.

02/29/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/16/2024.
ADDED FIX RESTRICTION: MCA V220 14500 SOUTHWEST BOUND.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 05/16/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: HANKI

STATE: NE

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 413755.13N/1025548.48W

TYPE: 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	CHEYENNE	CYS	VORTAC	H	059.51	072.51	86.93	86.93	21000	45000
2	GILL	GLL	VOR/DME	H	033.90	046.90	100.00	100.00	21000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GLL	VOR/DME	R-034	100	9000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

CHEYENNE (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE	1, 2		KBKF	AURORA	CO (US)
DP	YELLOWSTONE	1, 2		KAPA	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KBJC	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KCFO	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KDEN	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE	1, 2		KGXY	GREELEY	CO (US)
EN ROUTE	J-148	1, 2				(US)

REQUIRED CHARTING: DP, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 01/30/2020

REASON FOR REVISION:

UPDATED FIX USE, ALL REFERENCES TO KFTG (FRONT RANGE) CHANGED TO KCFO (COLORADO AIR AND SPACE PORT).

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LARAMIE VOR/DME STATE: WY COUNTRY: US ICAO REGION CODE: K1
 LATITUDE/LONGITUDE: 412016.15N/1054315.36W 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	MAA
1	LARAMIE	LAR	VOR/DME	L						17500

FIX RESTRICTIONS:

MCA V4 10600 WESTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW	LAR	VOR/DME	305.00	125.00	L	1		9600	17500	9	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	413042.00N/1055736.00W	7756	4E
1	310	AAO	412642.00N/1060921.00W	10512	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	86

REASON FOR NONSTANDARD HOLDING:

PAT 1 TERRAIN

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 11000

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR/DME RWY 30	KLAR	LARAMIE	WY (US)
1	VOR/DME RWY 12	KLAR	LARAMIE	WY (US)
1	T/O MINS AND DP	KLAR	LARAMIE	WY (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

PAT 1 310 KIAS CONTROLLING OBS LOCATED 12492 FT (2.06 NM) INTO SECONDARY. PRIMARY EQUIVALENT: 9516 FT

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	YELLOWSTONE			KBKF	AURORA	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	YELLOWSTONE			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	YELLOWSTONE			KBJC	DENVER	CO (US)
DP	DENVER			KCFO	DENVER	CO (US)
DP	YELLOWSTONE			KCFO	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	YELLOWSTONE			KDEN	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	YELLOWSTONE			KGXY	GREELEY	CO (US)
DP	T/O MINS AND DP		1	KLAR	LARAMIE	WY (US)
EN ROUTE	J157					(US)
EN ROUTE	J175					(US)
EN ROUTE	J54					(US)
EN ROUTE	V118					(US)
EN ROUTE	V4					(US)
EN ROUTE	V524					(US)
EN ROUTE	V575					(US)
EN ROUTE	V85					(US)
IAP	RNAV (GPS) RWY 12			KLAR	LARAMIE	WY (US)
IAP	RNAV (GPS) RWY 30			KLAR	LARAMIE	WY (US)
IAP	VOR/DME RWY 12		1	KLAR	LARAMIE	WY (US)
IAP	VOR/DME RWY 30		1	KLAR	LARAMIE	WY (US)
STAR	RAMMS			KBKF	AURORA	CO (US)
STAR	RAMMS			KAPA	DENVER	CO (US)
STAR	RAMMS			KBJC	DENVER	CO (US)
STAR	RAMMS			KCFO	DENVER	CO (US)
STAR	RAMMS			KDEN	DENVER	CO (US)

STAR	RAMMS	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	RAMMS	KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

REMOVED DP YAMMI (RNAV) AT KAPA, KBJC, KCFO, KDEN, AND KFNL FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTINE BAYSE

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: NATTI

STATE: WY

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 413048.32N/1062901.16W

TYPE: INT, 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	LARAMIE	LAR	VOR/DME	L	273.26	287.26	36.00	36.00	13000	17500
2	MEDICINE BOW	MBW	VOR/DME	L	213.42	227.42		29.35	13000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

LARAMIE (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE	1, 2		KBKF	AURORA	CO (US)
DP	YELLOWSTONE	1, 2		KAPA	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KBJC	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KCFO	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KDEN	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE	1, 2		KGXY	GREELEY	CO (US)
EN ROUTE	V4	1, 2				CO (US)

REQUIRED CHARTING: DP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 01/30/2020

REASON FOR REVISION:

UPDATED FIX USE, ALL REFERENCES TO KFTG (FRONT RANGE) CHANGED TO KCFO (COLORADO AIR AND SPACE PORT).

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE:

OFFICE: AVJ-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RAPID CITY VORTAC **STATE:** SD **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 435833.74N/1030044.38W **TYPE:**

AIRSPACE DOCKET: 20-AGL-34 **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	RAPID CITY	RAP	VORTAC	H						45000

FIX RESTRICTIONS:

MCA V26 11300 SOUTHWEST BOUND
MCA V536 6500 WESTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

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	SE	RAP	VORTAC	142.00	322.00	R	1	5500 16000	5 12
2	SE	RAP	VORTAC	141.00	321.00	R	1	5600 16000	5 12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	435551.00N/1030409.00W	3681	4E
2	200	AAO	435551.00N/1030409.00W	3681	4E
2	310	AAO	435736.00N/1031018.00W	3836	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	VOR OR TACAN RWY 14	KRAP	RAPID CITY	SD (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FACILITY MAG VAR: 13E/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE			KBKF	AURORA	CO (US)
DP	YELLOWSTONE			KAPA	DENVER	CO (US)
DP	YELLOWSTONE			KBJC	DENVER	CO (US)
DP	YELLOWSTONE			KCFO	DENVER	CO (US)
DP	YELLOWSTONE			KDEN	DENVER	CO (US)
DP	YELLOWSTONE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE			KGXY	GREELEY	CO (US)
DP	MEADOW LAKE			KMSP	MINNEAPOLIS	MN (US)
DP	MINNEAPOLIS			KMSP	MINNEAPOLIS	MN (US)
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	BILLINGS			6S8	LAUREL	MT (US)
DP	HOT SPRINGS			KHSR	HOT SPRINGS	SD (US)
DP	TAKEOFF MINIMUMS			49B	STURGIS	SD (US)
DP	CASPER			KCPR	CASPER	WY (US)
EN ROUTE	J151					(US)
EN ROUTE	J157					(US)
EN ROUTE	J158					(US)
EN ROUTE	J17					(US)
EN ROUTE	J82					(US)
EN ROUTE	T286					(US)
EN ROUTE	T288					(US)
EN ROUTE	T322					(US)
EN ROUTE	V169					(US)
EN ROUTE	V26					(US)
EN ROUTE	V491					(US)
EN ROUTE	V536					(US)
EN ROUTE	V86					(US)
IAP	VOR OR TACAN RWY 14		2	KRAP	RAPID CITY	SD (US)
IAP	VOR OR TACAN RWY 32		1	KRAP	RAPID CITY	SD (US)
IAP	TACAN-A			KRCA	RAPID CITY	SD (US)
IAP	RNAV (GPS) RWY 31			KSPF	SPEARFISH	SD (US)
IAP	RNAV (GPS) RWY 11			49B	STURGIS	SD (US)
IAP	RNAV (GPS) RWY 29			49B	STURGIS	SD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 20-AGL-34.

REMARKS: ADDED FACILITY MAG VAR: 13E/1965.

FIX USE: ADDED T322.

INITIATED BY:**DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

NAME: BARRY SMITH**APPROVED BY:****DATE:** 10/07/2021**OFFICE:** AJV-A420**NAME:** MARLON ROBINSON**SIGNATURE:**

RADIO FIX AND HOLDING DATA RECORD

NAME: YALES

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 404739.62N/1044420.40W

TYPE: 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	DENVER	DEN	VOR/DME	H	348.53	356.53	58.98	58.98		10000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DEN	VOR/DME	R-349	59	10000	20000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE	1		KBKF	AURORA	CO (US)
DP	YELLOWSTONE	1		KAPA	DENVER	CO (US)
DP	YELLOWSTONE	1		KBJC	DENVER	CO (US)
DP	YELLOWSTONE	1		KCFO	DENVER	CO (US)
DP	YELLOWSTONE	1		KDEN	DENVER	CO (US)
DP	YELLOWSTONE	1		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE	1		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 01/30/2020

REASON FOR REVISION:

UPDATED FIX USE, ALL REFERENCES TO KFTG (FRONT RANGE) CHANGED TO KCFO (COLORADO AIR AND SPACE PORT).

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: YAMMI

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 404553.79N/1050404.83W

TYPE: WP, INT, 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	DENVER	DEN	VOR/DME	H	334.00	342.00	60.09	60.09		11000	45000
2	CHEYENNE	CYS	VORTAC	H	193.72	206.72		29.92		11000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DEN	VOR/DME	R-334	61	11000	20000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE	1, 2		KBKF	AURORA	CO (US)
DP	MRS HH (RNAV)			KAPA	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KAPA	DENVER	CO (US)
DP	MRS HH (RNAV)			KBJC	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KBJC	DENVER	CO (US)
DP	MRS HH (RNAV)			KCFO	DENVER	CO (US)
DP	YELLOWSTONE			KCFO	DENVER	CO (US)
DP	DDRTH (RNAV)			KDEN	DENVER	CO (US)
DP	YELLOWSTONE	1, 2		KDEN	DENVER	CO (US)
DP	MRS HH (RNAV)			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE	1, 2		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	MRS HH (RNAV)			KGXY	GREELEY	CO (US)
DP	YELLOWSTONE	1, 2		KGXY	GREELEY	CO (US)
DP	MRS HH (RNAV)			KLMO	LONGMONT	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

UPDATED FIX USE - ADDED DDRTH (RNAV) SID @ KDEN.

UPDATED FIX USE - DELETED YAMMI SID.

UPDATED FIX USE - ADDED MRS HH (RNAV) SID @ KAPA, KBJC, KCFO, KGXY, KFNL, KLMO.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ROBERT GRIM

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZDV

ATC FACILITY: DEN DEP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: YOKES STATE: CO COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 403436.96N/1041414.14W 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	DENVER	DEN	VOR/DME	H	014.88	022.88	49.80	49.80	9000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DEN	VOR/DME	R-015	50	9000	20000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	YELLOWSTONE	1		KBKF	AURORA	CO (US)
DP	MRSHH (RNAV)			KAPA	DENVER	CO (US)
DP	YELLOWSTONE	1		KAPA	DENVER	CO (US)
DP	MRSHH (RNAV)			KBJC	DENVER	CO (US)
DP	YELLOWSTONE	1		KBJC	DENVER	CO (US)
DP	MRSHH (RNAV)			KCFO	DENVER	CO (US)
DP	YELLOWSTONE			KCFO	DENVER	CO (US)
DP	CHUWY (RNAV)			KDEN	DENVER	CO (US)
DP	YELLOWSTONE	1		KDEN	DENVER	CO (US)
DP	MRSHH (RNAV)			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YELLOWSTONE	1		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	MRSHH (RNAV)			KGXY	GREELEY	CO (US)
DP	YELLOWSTONE	1		KGXY	GREELEY	CO (US)
DP	MRSHH (RNAV)			KLMO	LONGMONT	CO (US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 DATE OF REVISION: 08/12/2021

REASON FOR REVISION:

REQUIRED CHARTING: ADDED EN ROUTE LOW AND CONTROLLER LOW

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: APRIL SARMENTO

APPROVED BY: DATE: 08/12/2021 OFFICE: AJV-A430 NAME: LONNIE EVERHART

SIGNATURE: