

RADIO FIX AND HOLDING DATA RECORD

NAME: ALAMOSA VORTAC

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 372056.97N/1054855.93W

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	FAC FEET	MRA	MAA
1	ALAMOSA	ALS	VORTAC	H							45000

FIX RESTRICTIONS:

MCA V83 10400 SOUTHBOUND
MCA V210 11200 WESTBOUND

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	NW	ALS	VORTAC	322.00	142.00	R	1		10000	14000	9	10
2	SE	ALS	VORTAC	121.38	301.38	R	1-1 1/2		10700	17500	9	16
3	SE		WP	126.43	306.43	R		7	11600	14000	10	18
4	NW	ALS	VORTAC	321.11	141.11	R	1-1 1/2		10700	17500	9	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	371248.00N/1054830.00W	9416	4E
2	230	AAO	371225.00N/1054722.00W	9384	4E
2	310	AAO	371248.00N/1052136.00W	9439	4E
3	230	AAO	371248.00N/1054830.00W	9416	4E
3	310	AAO	371603.00N/1051854.00W	10597	4E
4	230	AAO	371248.00N/1054830.00W	9416	4E
4	310	AAO	370821.00N/1054929.00W	9666	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
3	310	180

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	TAKE-OFF MINIMUMS	KALS	ALAMOSA	CO (US)
2	TAKE-OFF MINIMUMS	KMVI	MONTE VISTA	CO (US)
3	RNAV (GPS)-B	KMVI	MONTE VISTA	CO (US)
4	VOR/DME-B	KALS	ALAMOSA	CO (US)
4	VOR-A	KALS	ALAMOSA	CO (US)

REMARKS:

ASSIGNED FACILITY MAG VAR: 13E 1965
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PATTERN 3 310K OBSTACLE IN SECONDARY AREA. PRIMARY EQUIVALENT = 10420

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE-OFF MINIMUMS		2	KALS	ALAMOSA	CO (US)
DP	ASPEN			KASE	ASPEN	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	TAKE-OFF MINIMUMS		2	KMVI	MONTE VISTA	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
EN ROUTE	J102					(US)
EN ROUTE	J110					(US)
EN ROUTE	J13					(US)
EN ROUTE	J206					(US)
EN ROUTE	J44					(US)
EN ROUTE	V210					(US)
EN ROUTE	V368					(US)
EN ROUTE	V484					(US)
EN ROUTE	V83					(US)
IAP	ILS OR LOC RWY 2		1	KALS	ALAMOSA	CO (US)

IAP	RNAV (GPS) RWY 2		KALS	ALAMOSA	CO (US)
IAP	RNAV (GPS) RWY 20		KALS	ALAMOSA	CO (US)
IAP	VOR-A	4	KALS	ALAMOSA	CO (US)
IAP	VOR/DME-B	4	KALS	ALAMOSA	CO (US)
IAP	RNAV (GPS) RWY 20		KMVI	MONTE VISTA	CO (US)
IAP	RNAV (GPS)-B	3	KMVI	MONTE VISTA	CO (US)
IAP	VOR/DME-A	2	KMVI	MONTE VISTA	CO (US)
STAR	LARKS		KBKF	AURORA	CO (US)
STAR	DEBERRY		KCOS	COLORADO SPRINGS	CO (US)
STAR	LARKS		KAPA	DENVER	CO (US)
STAR	LARKS		KBJC	DENVER	CO (US)
STAR	LARKS		KDEN	DENVER	CO (US)
STAR	LARKS		KFTG	DENVER	CO (US)
STAR	LARKS		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS		KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 16

DATE OF REVISION: 09/14/2017

REASON FOR REVISION:

1. PATTERN 3 MINIMUM HOLDING ALTITUDE CHANGED FROM 10700 TO 11600 PER AIR TRAFFIC REQUEST.
2. HOLDING PATTERN #3 INBOUND COURSE CHANGED FROM 302.38 TO 306.43 PER MAGVAR CHANGE AT KMVI.
3. CLIMB-IN-HOLD OBSTACLE ADDED TO PATTERN #3.
4. KMVI GPS RWY 20 CANCELLED, RNAV (GPS) RWY 20 ADDED.
5. ADDED PATTERN 3 310K OBSTACLE IN SECONDARY AREA. PRIMARY EQUIVALENT REMARK.
6. ADDED PAT 3 PRECIPITOUS TERRAIN ADJUSTEMENT 310K: 180
7. INCREASED PAT 3 MAX TEMPLATE FROM 17 TO 18.

DEVELOPED BY: **DATE:** 03/01/2017 **OFFICE:** AJV-5433 **NAME:** DAVID TEFFETELLER (FRANK MOORE)

APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** PATRICK MULQUEEN

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: BLUE MESA VOR/DME

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 382707.62N/1070222.97W

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	FAC FEET	MRA	MAA
1	BLUE MESA	HBU	VOR/DME	H							45000

FIX RESTRICTIONS:

MCA V95 12900 NORTHEAST BOUND
MCA V160 12900 NORTHEAST BOUND
MCA V421 12900 NORTHBOUND
MCA V95-421 12600 SOUTHBOUND

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	SW	HBU	VOR/DME	211.00	031.00	L	1-1 1/2		13800	29000	10	22
2	SW	HBU	VOR/DME	211.00	031.00	L	1-1 1/2		12000	29000	9	22
3	N		WP	354.50	174.50	L		8	13000	14000	11	11
4	SW		WP	211.00	031.00	L		10	17000	45000	17	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	381603.00N/1071957.00W	10525	4E
1	310	AAO	381024.00N/1072612.00W	12431	4E
2	230	AAO	381636.00N/1071848.00W	10230	4E
3	230	AAO	384042.00N/1070554.00W	11559	2C
4	265	AAO	380854.00N/1071300.00W	12468	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	258
1	310	361
2	230	224
3	230	367
4	265	359

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST
PAT 3 ATC REQUEST
PAT 4 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KGUC	GUNNISON	CO (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
CHART PAT 1 ON ENROUTE LOW.
PAT 4: 10 DME PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	DENVER			KBKF	AURORA	CO (US)
DP	ROCKIES			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	CORTEZ			KCEZ	CORTEZ	CO (US)
DP	TAKE-OFF MINIMUMS			KCEZ	CORTEZ	CO (US)
DP	BAYLR (RNAV)			KAPA	DENVER	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	ROCKIES			KAPA	DENVER	CO (US)
DP	BAYLR (RNAV)			KBJC	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	ROCKIES			KBJC	DENVER	CO (US)
DP	BAYLR (RNAV)			KDEN	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	ROCKIES			KDEN	DENVER	CO (US)
DP	BAYLR (RNAV)			KFTG	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)

DP	ROCKIES		KFTG	DENVER	CO (US)
DP	BAYLR (RNAV)		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	ROCKIES		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	GRAND MESA		KGJT	GRAND JUNCTION	CO (US)
DP	DENVER		KGXY	GREELEY	CO (US)
DP	ROCKIES		KGXY	GREELEY	CO (US)
DP	TAKE-OFF MINIMUMS	1	KGUC	GUNNISON	CO (US)
DP	BLUE MESA		KMTJ	MONTROSE	CO (US)
DP	CANYON		KPUB	PUEBLO	CO (US)
EN ROUTE	J10				(US)
EN ROUTE	J128				(US)
EN ROUTE	J146				(US)
EN ROUTE	J206				(US)
EN ROUTE	J240				(US)
EN ROUTE	J28				(US)
EN ROUTE	V160				(US)
EN ROUTE	V244				(US)
EN ROUTE	V26				(US)
EN ROUTE	V421				(US)
EN ROUTE	V484				(US)
EN ROUTE	V95				(US)
IAP	GPS-B	2	KGUC	GUNNISON	CO (US)
IAP	ILS OR LOC RWY 6	2	KGUC	GUNNISON	CO (US)
IAP	RNAV (RNP) RWY 24	3	KGUC	GUNNISON	CO (US)
IAP	RNAV (RNP) RWY 6	3	KGUC	GUNNISON	CO (US)
IAP	VOR OR GPS-A	2	KGUC	GUNNISON	CO (US)
STAR	LARKS		KBKF	AURORA	CO (US)
STAR	DEBERRY		KCOS	COLORADO SPRINGS	CO (US)
STAR	LARKS		KAPA	DENVER	CO (US)
STAR	LARKS		KBJC	DENVER	CO (US)
STAR	CREDE (RNAV)	4	KDEN	DENVER	CO (US)
STAR	LARKS	2	KDEN	DENVER	CO (US)
STAR	LDORA (RNAV)	4	KDEN	DENVER	CO (US)
STAR	PEEKK (RNAV)	4	KDEN	DENVER	CO (US)
STAR	POWDR	2	KDEN	DENVER	CO (US)
STAR	TELLR (RNAV)	4	KDEN	DENVER	CO (US)
STAR	LARKS		KFTG	DENVER	CO (US)
STAR	LARKS		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS		KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 16

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

UPDATED FIX LOCATION FROM 382702.75N-1070223.25W TO 382702.62N-1070222.97W PER AIRNAV DATA.

DEVELOPED BY: **DATE:** 03/03/2016 **OFFICE:** AJV-5431 **NAME:** ROBERT GRIM

APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: BRESH

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 381824.32N/1040742.80W

TYPE: INT, DME

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	FAC FEET	MRA	MAA
1	BLACK FOREST	BRK	VOR/DME	L	140.00	148.00	45.00	45.00		9000	17500
2	PUEBLO	PUB	VORTAC	H	078.89	086.89	14.23	14.23		9000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRK	VOR/DME	R-140	45	9000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BLACK FOREST (FAC 1) AND PUEBLO (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SPRINGS	1, 2		KCOS	COLORADO SPRINGS	CO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

FAC 1 BRG CHANGED FROM 135 TO 140. FAC 2 BRG CHANGED FROM 073.89 TO 078.89 DUE TO MAG VAR ROTATION FROM E13 TO E8. BRK VOR/DME ESV RADIAL CHANGED FROM 135 TO 140. DUE TO MAG VAR ROTATION FROM E13 TO E8.

DEVELOPED BY: DATE: 01/20/2016 OFFICE: AJV-5431 NAME: ROBERT GRIM

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: COS DEP CON
OTHER: COS ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: BLACK FOREST VOR/DME STATE: CO COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 385640.22N/1043800.49W 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 FEET	MAA
1	BLACK FOREST	BRK	VOR/DME	L						17500

FIX RESTRICTIONS:

MCA V81 10000 NORTHWEST BOUND
 MCA V108 10700 WESTBOUND
 MCA V611 10000 NORTHEAST 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	N	BRK	VOR/DME	339.00	159.00	L	1		10000	14000	9	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (08-000087)	390246.00N/1044140.00W	7940	3A
1	310	AAO	390818.00N/1045033.59W	8055	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	SPRINGS	KCOS	COLORADO SPRINGS	CO (US)
1	TAKEOFF MINIMUMS	KCOS	COLORADO SPRINGS	CO (US)

REMARKS:

PRECIPITOUS TERRAIN EVAL COMPLETED.
 CHART PATTERN 1 ON LOW ENROUTE ALTITUDE CHART.
 ASSIGNED FACILITY MAG VAR 8E/2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS		1	KCOS	COLORADO SPRINGS	CO (US)
DP	TAKEOFF MINIMUMS		1	KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	V108					(US)
EN ROUTE	V611					(US)
EN ROUTE	V81					(US)
EN ROUTE	V83					(US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I-II)			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 35L (SA CAT II)			KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 08R			KPUB	PUEBLO	CO (US)
IAP	VOR RWY 26L			KPUB	PUEBLO	CO (US)
STAR	LARKS			KBKF	AURORA	CO (US)
STAR	QUAIL			KBKF	AURORA	CO (US)
STAR	DEBERRY			KCOS	COLORADO SPRINGS	CO (US)
STAR	LARKS			KAPA	DENVER	CO (US)

STAR	QUAIL	KAPA	DENVER	CO (US)
STAR	LARKS	KBJC	DENVER	CO (US)
STAR	QUAIL	KBJC	DENVER	CO (US)
STAR	LARKS	KDEN	DENVER	CO (US)
STAR	QUAIL	KDEN	DENVER	CO (US)
STAR	LARKS	KFTG	DENVER	CO (US)
STAR	QUAIL	KFTG	DENVER	CO (US)
STAR	LARKS	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS	KGXY	GREELEY	CO (US)
STAR	QUAIL	KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

DELETED KPUB ILS OR LOC RWY 26R FROM FIX USE.
 DELETED KCOS RNAV (GPS) RWY 31 FROM FIX USE.
 UPDATED KPUB FIX USE FROM ILS OR LOC RWY 08L TO ILS OR LOC RWY 08R.
 UPDATED KPUB FIX USE FROM VOR/DME RWY 26R TO VOR RWY 26L.
 UPDATED KCOS FIX USE FROM ILS RWY 17L (SA CAT I) TO ILS RWY 17L (SA CAT I-II).
 ADDED KCOS ILS RWY 35L (SA CAT II) TO FIX USE.
 ADDED ASSIGNED FACILITY MAG VAR 8E/2020 TO REMARKS.
 REMOVED VOR UNUSABLE R-300 TO R-040 BYD 10 NM FROM FIX RESTRICTIONS.

DEVELOPED BY: **DATE:** 06/26/2017 **OFFICE:** AJV-5421 **NAME:** JOHN HAZELTON

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZDV
 ATC FACILITY: COS APP CON
 OTHER: COS ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: DRAKE

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383624.05N/1042451.18W

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	MRA	MAA
1	PUEBLO	PUB	VORTAC	H	354.19	002.19	18.74	18.74	7600	17500
2	HUGO	HGO	VOR/DME	H	244.50	251.50		39.32	7600	17500
3	BLACK FOREST	BRK	VOR/DME	L	145.00	153.00	22.71	22.71	9000	17500

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	N	PUB	VORTAC	354.19	174.19	R	1-1 1/2	9000 17500	11 18
2	S		WP	173.19	353.19	R	7	9000 17500	10 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	385121.00N/1043348.00W	6838	4E
2	230	AAO	384154.00N/1041739.00W	6152	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

PUEBLO (FAC 1) AND HUGO (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PIKES	1, 2, 3		KBKF	AURORA	CO (US)
DP	SPRINGS	1, 2, 3		KCOS	COLORADO SPRINGS	CO (US)
DP	PIKES	1, 2, 3		KAPA	DENVER	CO (US)
DP	PIKES	1, 2, 3		KBJC	DENVER	CO (US)
DP	PIKES	1, 2, 3		KDEN	DENVER	CO (US)
DP	PIKES	1, 2, 3		KFTG	DENVER	CO (US)
DP	PIKES	1, 2, 3		KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES	1, 2, 3		KGXY	GREELEY	CO (US)
EN ROUTE	V389	1, 2, 3				(US)
EN ROUTE	V83	1, 2, 3				(US)
IAP	ILS OR LOC RWY 17L	1, 2, 3	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L	1, 2, 3	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R	1, 2, 3	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I)	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT II)	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 35L (SA CAT II)	1, 2, 3	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L	1, 2	1	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 17L		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 17R		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 17L		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 17R		2	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) RWY 17			KPUB	PUEBLO	CO (US)
IAP	RNAV (GPS) RWY 26L			KPUB	PUEBLO	CO (US)
STAR	OZZZY(RNAV)			KCOS	COLORADO SPRINGS	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

ADDED ILS RWY 35L (SA CAT II) TO FIX USE.

DEVELOPED BY: DATE: 06/26/2017

OFFICE: AJV-5421

NAME: JOHN HAZELTON

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: COS APP CON, COS ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ELLZA

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 390652.63N/1043657.50W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
DP

USE TITLE
SPRINGS

FAC

PAT

AIRPORT IDENT
KCOS

CITY
COLORADO SPRINGS

STATE
CO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/27/2013

REASON FOR REVISION:

UPDATED FIX USE

UPDATED REQUIRED CHARTING TO DEPICT DP, CONTROLLER, AND EN ROUTE LOW

DEVELOPED BY:

DATE: 02/12/2013

OFFICE: AJV-354

NAME: PETER GETZ (NICHOLAS JACKSON)

APPROVED BY:

DATE: 04/30/2013

OFFICE: AJV-354

NAME: DEBORAH COPELAND

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZDV

ATC FACILITY: COS ATCT

OTHER: DEN APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: FALCON VORTAC **STATE:** CO **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 394124.50N/1043715.50W **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	FALCON	FQF	VORTAC	H						45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	SW	FQF	VORTAC	223.74	043.74	R	1		8000	14000	8	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	393104.60N/1043946.90W	6615	6C
1	310	AAO	392543.60N/1045203.00W	6913	6C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 26	KFTG	DENVER	CO (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	DENVER			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	DECI-BELLE			KDEN	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	GRAND MESA			KGJT	GRAND JUNCTION	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J10					(US)
EN ROUTE	J116					(US)
EN ROUTE	J128					(US)
EN ROUTE	J13					(US)
EN ROUTE	J17					(US)
EN ROUTE	J20					(US)
EN ROUTE	J44					(US)
EN ROUTE	J52					(US)
EN ROUTE	J56					(US)
EN ROUTE	J80					(US)
EN ROUTE	V134					(US)
EN ROUTE	V148					(US)
EN ROUTE	V160					(US)
EN ROUTE	V366					(US)
EN ROUTE	V389					(US)
EN ROUTE	V85					(US)
EN ROUTE	V95					(US)
IAP	ILS OR LOC RWY 35R			KAPA	DENVER	CO (US)
IAP	NDB RWY 35			KAPA	DENVER	CO (US)
IAP	RNAV (GPS) RWY 28			KAPA	DENVER	CO (US)
IAP	RNAV (GPS) RWY 35R			KAPA	DENVER	CO (US)
IAP	ILS OR LOC RWY 07			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 08			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 16L			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 16R			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 17L			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 25			KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 34L			KDEN	DENVER	CO (US)
IAP	ILS RWY 17R			KDEN	DENVER	CO (US)
IAP	ILS RWY 26			KDEN	DENVER	CO (US)
IAP	ILS RWY 34L (CAT II)			KDEN	DENVER	CO (US)
IAP	ILS RWY 34L (CAT III)			KDEN	DENVER	CO (US)
IAP	ILS RWY 34R			KDEN	DENVER	CO (US)
IAP	ILS RWY 34R (CAT II)			KDEN	DENVER	CO (US)

IAP	ILS RWY 34R (CAT III)		KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 17		KFTG	DENVER	CO (US)
IAP	ILS OR LOC RWY 26	1	KFTG	DENVER	CO (US)
IAP	ILS OR LOC RWY 35		KFTG	DENVER	CO (US)
IAP	LANDR		KFTG	DENVER	CO (US)
IAP	NDB RWY 26		KFTG	DENVER	CO (US)
IAP	RNAV (GPS) RWY 17		KFTG	DENVER	CO (US)
IAP	RNAV (GPS) RWY 26		KFTG	DENVER	CO (US)
IAP	RNAV (GPS) RWY 35		KFTG	DENVER	CO (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	SAYGE		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	SAYGE		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	SAYGE		KBJC	DENVER	CO (US)
STAR	TOMSN		KBJC	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	SAYGE		KDEN	DENVER	CO (US)
STAR	TOMSN		KDEN	DENVER	CO (US)
STAR	DANDD		KFTG	DENVER	CO (US)
STAR	LARKS		KFTG	DENVER	CO (US)
STAR	POWDR		KFTG	DENVER	CO (US)
STAR	QUAIL		KFTG	DENVER	CO (US)
STAR	RAMMS		KFTG	DENVER	CO (US)
STAR	SAYGE		KFTG	DENVER	CO (US)
STAR	TOMSN		KFTG	DENVER	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	SAYGE		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	TOMSN		KFNL	FORT COLLINS/LOVELAND	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	SAYGE		KGXY	GREELEY	CO (US)
STAR	TOMSN		KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/15/2012

REASON FOR REVISION:

CHANGED HOLDING MAX TEMPLATE FROM 10 TO 18.

REMOVED PAT 2.

CHANGED PAT 1 230KT AND 310KT CONTROLLING OBSTACLE ACCURACY CODES FROM 6A TO 6C.

CHANGED PAT 1 INBOUND COURSE FROM 044.00 TO 043.74.

UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/15/2011

OFFICE: AJV-354

NAME: ADOLFO URRUTIA (STEPHEN PETERSON)

APPROVED BY: **DATE:** 09/11/2012

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZDV

ATC FACILITY: DEN APP CON/FTG TOWER

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HUGO VOR/DME STATE: CO COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 384903.00N/1033717.00W 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	HUGO	HGO	VOR/DME	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	SE	HGO	VOR/DME	131.63	311.63	L	1-1 1/2	10500 45000	9 29
2	SE		WP	128.00	308.00	L	10	13000 45000	15 30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	390030.00N/1035312.00W	6113	4E
1	230	AAO	385042.00N/1034633.00W	5722	4E
2	230	AAO	385130.00N/1035027.00W	5824	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
 PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

UNPLANNED HOLDING APPROVED AT OR ABOVE 10000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
 PAT 2 MIN TEMPLATE 15 PER ATC REQUEST FOR 10 DME HOLDING LEG LENGTH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J171					(US)
EN ROUTE	J197					(US)
EN ROUTE	J20					(US)
EN ROUTE	J24					(US)
EN ROUTE	J52					(US)
EN ROUTE	V108					(US)
EN ROUTE	V169					(US)
EN ROUTE	V263					(US)
EN ROUTE	V366					(US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I)			KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD			KBKF	AURORA	CO (US)
STAR	QUAIL		1	KBKF	AURORA	CO (US)
STAR	OZZZY (RNAV)		2	KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD			KAPA	DENVER	CO (US)
STAR	QUAIL		1	KAPA	DENVER	CO (US)
STAR	DANDD			KBJC	DENVER	CO (US)
STAR	QUAIL		1	KBJC	DENVER	CO (US)
STAR	DANDD			KDEN	DENVER	CO (US)
STAR	QUAIL		1	KDEN	DENVER	CO (US)
STAR	DANDD			KFTG	DENVER	CO (US)
STAR	QUAIL		1	KFTG	DENVER	CO (US)
STAR	QUAIL		1	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL		1	KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. HOLDING PATTERN 2 INBOUND COURSE CHANGED FROM 307 TO 308, AIRPORT MAGVAR CHANGED FROM 9E TO 8E.
2. REMOVED HOLDING LIMITED TO ESTABLISHED PATTERN NOTE.
3. MOVED UNPLANNED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.

DEVELOPED BY: **DATE:** 04/11/2017 **OFFICE:** AJV-5412 **NAME:** KISSY MAXFIELD

APPROVED BY: **DATE:** **OFFICE:** AJV-5410 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZDV
 ATC FACILITY: DEN
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JEWLS

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383158.39N/1034954.69W

TYPE: INT, DME

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	FAC FEET	MRA	MAA
1	BLACK FOREST	BRK	VOR/DME	L	115.00	123.00	45.00	45.00		9000	17500
2	HUGO	HGO	VOR/DME	H	203.17	210.17	19.72	19.72		9000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRK	VOR/DME	R-115	45	9000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BLACK FOREST (FAC 1) AND HUGO (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SPRINGS	1, 2		KCOS	COLORADO SPRINGS	CO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FAC 2 MAGNETIC BRG CHANGED FROM 198.17 TO 203.17 DUE TO MAG VAR ROTATION FROM E12 TO E7.

DEVELOPED BY:

DATE: 04/28/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE: 05/26/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: COS DEP CON
OTHER: COS ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: LAMAR VOR/DME

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 381149.53N/1024115.12W

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	FAC FEET	MRA	MAA
1	LAMAR	LAA	VOR/DME	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	N	LAA	VOR/DME	348.73	168.73	R	1-1 1/2	6000 17500	7 16
2	N		WP	348.73	168.73	R	6	6000 17500	8 17
3	N		WP	345.93	165.93	R	7	6200 17500	9 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	381954.00N/1025715.00W	4551	4E
1	230	AAO	382636.00N/1024412.00W	4344	4E
2	230	AAO	382615.00N/1024721.00W	4416	4E
3	230	AAO	382651.00N/1024757.00W	4439	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.
UNPLANNED HOLDING APPROVED AT OR ABOVE 6000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	TAKE-OFF MINIMUMS			KLHX	LA JUNTA	CO (US)
DP	TAKE-OFF MINIMUMS			KLAA	LAMAR	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	TAKE-OFF MINIMUMS			K8V7	SPRINGFIELD	CO (US)
EN ROUTE	J102					(US)
EN ROUTE	J168					(US)
EN ROUTE	J20-52					(US)
EN ROUTE	V10					(US)
EN ROUTE	V10-244					(US)
EN ROUTE	V210					(US)
EN ROUTE	V210-304					(US)
EN ROUTE	V216					(US)
EN ROUTE	V244					(US)
EN ROUTE	V263					(US)
IAP	RNAV (GPS) RWY 26			KLAA	LAMAR	CO (US)
IAP	RNAV (GPS) RWY 36		2	KLAA	LAMAR	CO (US)
IAP	VOR RWY 18		1	KLAA	LAMAR	CO (US)
IAP	VOR/DME RWY 36		1	KLAA	LAMAR	CO (US)
IAP	RNAV (GPS) RWY 17		3	K8V7	SPRINGFIELD	CO (US)
STAR	DANDD			KBKF	AURORA	CO (US)
STAR	QUAIL			KBKF	AURORA	CO (US)
STAR	OZZZY (RNAV)			KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD			KAPA	DENVER	CO (US)
STAR	QUAIL			KAPA	DENVER	CO (US)
STAR	DANDD			KBJC	DENVER	CO (US)
STAR	QUAIL			KBJC	DENVER	CO (US)
STAR	DANDD			KDEN	DENVER	CO (US)
STAR	QUAIL			KDEN	DENVER	CO (US)
STAR	DANDD			KFTG	DENVER	CO (US)
STAR	QUAIL			KFTG	DENVER	CO (US)
STAR	QUAIL			KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL			KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 11/15/2012

REASON FOR REVISION:

FAC 1 CHANGED FROM VORTAC TO VOR/DME

DEVELOPED BY: **DATE:** 01/31/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** 09/18/2012 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZDV
 ATC FACILITY: DEN
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MASHD

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 391255.83N/1043349.30W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
DP

USE TITLE
SPRINGS

FAC

PAT

AIRPORT IDENT
KCOS

CITY
COLORADO SPRINGS

STATE
CO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/27/2013

REASON FOR REVISION:

UPDATED FIX USE

UPDATED REQUIRED CHARTING BY DEPICTING DP, CONTROLLER, AND EN ROUTE LOW

DEVELOPED BY:

DATE: 02/01/2013

OFFICE: AJV-354

NAME: PETER GETZ (NICHOLAS JACKSON)

APPROVED BY:

DATE: 04/30/2013

OFFICE: AJV-354

NAME: DEBORAH COPELAND

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZDV

ATC FACILITY: COS ATCT

OTHER: DEN APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: PUEBLO VORTAC STATE: CO COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 381739.32N/1042546.01W 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	PUEBLO	PUB	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 LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	PUB	VORTAC	069.22	249.22	R	1-1 1/2	7400 45000	8 29
2	E		WP	069.22	249.22	R	7	7400 45000	9 30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (08-000066)	382224.00N/1043329.00W	6303	4D
1	310	TOWER (08-000066)	382224.00N/1043329.00W	6303	4D
2	230	TOWER (08-000066)	382224.00N/1043329.00W	6306	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KPUB	PUEBLO	CO (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PAT 1 230K OBSTACLE LOCATED 8412 FEET INTO SECONDARY.
 PAT 2 230K OBSTACLE LOCATED 5740 FEET INTO SECONDARY.
 PUB MAGVAR 8E 2020.
 CHART HOLDING PAT 1 ON EN ROUTE HIGH AND CONTROLLER HIGH CHART PER ATC TO ISSUE HOLDING TO SKI COUNTRY AIRCRAFT.
 HOLDING PAT 2 REQUESTED BY ATC TO FACILITATE HOLDING TO SKI COUNTRY AIRCRAFT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	PUEBLO (RNAV) (OBSTACLE)			KAEJ	BUENA VISTA	CO (US)
DP	TAKE-OFF MINIMUMS			K1V6	CANON CITY	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	SPAZZ (RNAV)			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	SPAZZ (RNAV)			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	SPAZZ (RNAV)			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	SPAZZ (RNAV)			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	SPAZZ (RNAV)			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	TAKE-OFF MINIMUMS		1	KPUB	PUEBLO	CO (US)
EN ROUTE	J104					(US)
EN ROUTE	J17					(US)
EN ROUTE	J28					(US)
EN ROUTE	J64					(US)
EN ROUTE	Q37					(US)
EN ROUTE	V10					(US)
EN ROUTE	V244					(US)
EN ROUTE	V389					(US)
EN ROUTE	V611					(US)
EN ROUTE	V81					(US)
EN ROUTE	V83					(US)
IAP	RNAV (RNP) Z RWY 29			K1V6	CANON CITY	CO (US)
IAP	ILS OR LOC RWY 08L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)

IAP	ILS OR LOC RWY 35L	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I-II)	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 35L (SA CAT II)	KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) RWY 31	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 17R	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35L	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (GPS) Y RWY 35R	KCOS	COLORADO SPRINGS	CO (US)
IAP	RNAV (RNP) Z RWY 17R	KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 08R	KPUB	PUEBLO	CO (US)
IAP	ILS OR LOC RWY 26L	KPUB	PUEBLO	CO (US)
IAP	RNAV (GPS) RWY 26L	KPUB	PUEBLO	CO (US)
IAP	VOR RWY 26L	KPUB	PUEBLO	CO (US)
STAR	DANDD	KBKF	AURORA	CO (US)
STAR	LARKS	KBKF	AURORA	CO (US)
STAR	QUAIL	KBKF	AURORA	CO (US)
STAR	DEBERRY	KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD	KAPA	DENVER	CO (US)
STAR	LARKS	KAPA	DENVER	CO (US)
STAR	QUAIL	KAPA	DENVER	CO (US)
STAR	SPAZZ (RNAV)	KAPA	DENVER	CO (US)
STAR	DANDD	KBJC	DENVER	CO (US)
STAR	LARKS	KBJC	DENVER	CO (US)
STAR	QUAIL	KBJC	DENVER	CO (US)
STAR	DANDD	KDEN	DENVER	CO (US)
STAR	LARKS	KDEN	DENVER	CO (US)
STAR	LDORA (RNAV)	KDEN	DENVER	CO (US)
STAR	PEEKK (RNAV)	KDEN	DENVER	CO (US)
STAR	QUAIL	KDEN	DENVER	CO (US)
STAR	DANDD	KFTG	DENVER	CO (US)
STAR	LARKS	KFTG	DENVER	CO (US)
STAR	QUAIL	KFTG	DENVER	CO (US)
STAR	LARKS	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS	KGXY	GREELEY	CO (US)
STAR	QUAIL	KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 20

DATE OF REVISION: 02/01/2018

REASON FOR REVISION:

ADDED KCOS ILS RWY 35L (SA CAT II) AND Q37 TO FIX USE.

DEVELOPED BY: **DATE:** 06/26/2017 **OFFICE:** AJV-5421 **NAME:** JOHN HAZELTON

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: PUB ATCT, COS ATCT
OTHER: COS APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: RED TABLE VOR/DME STATE: CO COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 392621.64N/1065340.85W 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 FEET	MRA	MAA
1	RED TABLE	DBL	VOR/DME	H						45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DBL	VOR/DME	R-062	59	16300	20000

FIX RESTRICTIONS:

SPECIAL RNAV (GPS) Z RWY 15, KASE, ASPEN, CO
 SPECIAL LOC/DME RWY 15, KASE, ASPEN, CO
 SPECIAL GLENO (RNP), KASE, ASPEN, CO

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	N	DBL	VOR/DME	344.00	164.00	R	1-1 1/2	14000 29000	10 22
2	N	DBL	VOR/DME	343.38	163.38	R	1-1 1/2	13700 17500	10 16
3	N	WP	WP	346.38	166.38	R	8	13700 17500	11 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	392506.00N/1064648.00W	11979	4E
2	230	AAO	392506.00N/1064648.00W	11979	4E
3	230	AAO	392512.60N/1064616.80W	12238	6C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	375
2	230	375
3	230	375

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASPEN			KASE	ASPEN	CO (US)
DP	GLENO (RNP)			KASE	ASPEN	CO (US)
DP	LINDZ			KASE	ASPEN	CO (US)
DP	SARDD (OBSTACLE)			KASE	ASPEN	CO (US)
DP	TAKE-OFF MINIMUMS			KASE	ASPEN	CO (US)
DP	ROCKIES		1	KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	BAYLR			KAPA	DENVER	CO (US)
DP	CONNR			KAPA	DENVER	CO (US)
DP	ROCKIES		1	KAPA	DENVER	CO (US)
DP	BAYLR			KBJC	DENVER	CO (US)
DP	CONNR			KBJC	DENVER	CO (US)
DP	ROCKIES		1	KBJC	DENVER	CO (US)
DP	BAYLR			KDEN	DENVER	CO (US)
DP	CONNR			KDEN	DENVER	CO (US)
DP	ROCKIES		1	KDEN	DENVER	CO (US)
DP	BAYLR			KFTG	DENVER	CO (US)
DP	CONNR			KFTG	DENVER	CO (US)
DP	ROCKIES		1	KFTG	DENVER	CO (US)
DP	GYP SUM			KEGE	EAGLE	CO (US)
DP	MEEKER			KEGE	EAGLE	CO (US)
DP	TAKE-OFF MINIMUMS			KEGE	EAGLE	CO (US)
DP	BAYLR			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	CONNR			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	ROCKIES		1	KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	GRAND JUNCTION			KGJT	GRAND JUNCTION	CO (US)
DP	GRAND MESA			KGJT	GRAND JUNCTION	CO (US)
DP	ROCKIES		1	KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
DP	UYRIG (RNAV) DP			KRIL	RIFLE	CO (US)
EN ROUTE	J206					(US)

EN ROUTE	J60			(US)	
EN ROUTE	J80			(US)	
EN ROUTE	V108			(US)	
EN ROUTE	V134			(US)	
EN ROUTE	V356			(US)	
EN ROUTE	V361			(US)	
EN ROUTE	V421			(US)	
IAP	LOC/DME RWY 15		KASE	ASPEN	CO (US)
IAP	LOC/DME-E		KASE	ASPEN	CO (US)
IAP	RNAV (GPS) Z RWY 15		KASE	ASPEN	CO (US)
IAP	RNAV (GPS)-F	3	KASE	ASPEN	CO (US)
IAP	ROARING FORK VISUAL RWY 15		KASE	ASPEN	CO (US)
IAP	VOR/DME-C	2	KASE	ASPEN	CO (US)
IAP	ILS RWY 26		KRIL	RIFLE	CO (US)
IAP	LOC/DME-A		KRIL	RIFLE	CO (US)
IAP	RNAV (GPS) Z RWY 26		KRIL	RIFLE	CO (US)
IAP	RNAV (RNP) Y RWY 26		KRIL	RIFLE	CO (US)
STAR	LARKS		KBKF	AURORA	CO (US)
STAR	POWDR		KBKF	AURORA	CO (US)
STAR	LARKS		KAPA	DENVER	CO (US)
STAR	POWDR		KAPA	DENVER	CO (US)
STAR	LARKS		KBJC	DENVER	CO (US)
STAR	POWDR		KBJC	DENVER	CO (US)
STAR	CREDE		KDEN	DENVER	CO (US)
STAR	LARKS		KDEN	DENVER	CO (US)
STAR	POWDR		KDEN	DENVER	CO (US)
STAR	TELLR		KDEN	DENVER	CO (US)
STAR	LARKS		KFTG	DENVER	CO (US)
STAR	POWDR		KFTG	DENVER	CO (US)
STAR	LARKS		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	POWDR		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	LARKS		KGXY	GREELEY	CO (US)
STAR	POWDR		KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 01/05/2017

REASON FOR REVISION:

ADDED ESV FOR DEN ROCKIES SID AT FIX CONNR

DEVELOPED BY:	DATE: 08/08/2016	OFFICE: AJV-5431	NAME: ANDREW FIELDS
APPROVED BY:	DATE: 11/16/2016	OFFICE: AJV-5430	NAME: LONNIE EVERHART
SIGNATURE:			

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZDV
 ATC FACILITY: ASE ATCT, DEN APP CON
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RIFLE

STATE: NY

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 404124.18N/0723454.89W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	HAMPTON	HTO	VORTAC	H	234.44	221.44	18.29	18.29		18000	45000
2	ROBBINSVILLE	RBV	VORTAC	H	080.93	070.93	92.38	92.38		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

HAMPTON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J174	1				(US)
EN ROUTE	J62	2				(US)
IAP	OOSHN (RNAV)			KBOS	BOSTON	MA (US)
STAR	DEEPO (RNAV)			KACK	NANTUCKET	MA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. DELETED CURRENT FAC 1 (SEY), FAC 3 (MVY), AND FAC 4 (ACK).
2. RENUMBERED CURRENT FAC 2 (HTO) TO FAC 1.
3. ADDED NEW FAC 2 (RBV) TO SUPPORT J62.
4. ADDED DIST FROM FAC TO FAC 1 (HTO).
5. UPDATED FIX USE.

DEVELOPED BY:

DATE: 03/30/2012

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 07/05/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RODDY STATE: CO COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 382130.45N/1052244.56W 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 FEET	MAA
1	PUEBLO	PUB	VORTAC	H	267.20	275.20	45.00	45.00	16000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PUB	VORTAC	R-267	45	16000	19300

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 ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	E	PUB	VORTAC	087.00	267.00	L	1 1/2		18000	45000	16	29
2	E		WP	087.00	267.00	L		10	18000	45000	17	30

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST TO FACILITATE HOLDING TO SKI COUNTRY AIRCRAFT
 PAT 2 ATC REQUEST TO FACILITATE HOLDING TO SKI COUNTRY AIRCRAFT

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

HOLDING PAT 1 CHARTED ON EN ROUTE HIGH CHART AND CONTROLLER HIGH CHART, PAT 2 TO ALLOW RNAV HOLD PER ATC REQUEST.
 HOLDING PATTERN CONTROLLING OBSTACLES NOT DOCUMENTED DUE TO NO IMPACT ON HOLDING ALTITUDES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
EN ROUTE	J28	1	1			(US)
EN ROUTE	V244	1				(US)
IAP	RNAV (GPS)-A			KANK	SALIDA	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 01/05/2017

REASON FOR REVISION:

ESTABLISHED HOLDING PATTERN 1 AND HOLDING PATTERN 2.
 ADDED REMARK "HOLDING PAT 1 CHARTED ON EN ROUTE HIGH CHART AND CONTROLLER HIGH CHART, PAT 2 TO ALLOW RNAV HOLD PER ATC REQUEST".
 ADDED ESV FOR PUB R-267/45/16000-19300.
 ADDED REMARK "HOLDING PATTERN CONTROLLING OBSTACLES NOT DOCUMENTED DUE TO NO IMPACT ON HOLDING ALTITUDES".
 IN FIX USE ADDED PAT 1 TO J28.
 ADDED HOLDING RESTRICTION "HOLDING LIMITED TO ESTABLISHED PATTERNS".

DEVELOPED BY: DATE: 08/05/2016 OFFICE: AJV-5431 NAME: JOHNNIE BAKER (CHRISTINE BAYSE)

APPROVED BY: DATE: 10/24/2016 OFFICE: AJV-5430 NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC
 FPO: WST
 ARTCC: ZDV
 ATC FACILITY: COS DEP CON
 OTHER: COS ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: TOBE VOR/DME

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 371531.17N/1033600.20W

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 NM	FAC FEET	MRA	MAA
1	TOBE	TBE	VOR/DME	L							45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	SPAZZ (RNAV)			KAPA	DENVER	CO (US)
DP	SPAZZ (RNAV)			KBJC	DENVER	CO (US)
DP	SPAZZ (RNAV)			KDEN	DENVER	CO (US)
DP	SPAZZ (RNAV)			KFTG	DENVER	CO (US)
DP	SPAZZ (RNAV)			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J17					(US)
EN ROUTE	J171					(US)
EN ROUTE	V169					(US)
EN ROUTE	V263					(US)
EN ROUTE	V81					(US)
STAR	DEBERRY			KCOS	COLORADO SPRINGS	CO (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 8

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

1. DELETED NDB-A FROM FIX USE, TAD NDB BEING DECOMMISSIONED.
2. REMOVED IAP FROM REQUIRED CHARTING.

DEVELOPED BY: DATE: 04/01/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY: DATE: 07/29/2016

OFFICE:

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TRAIN

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 391817.93N/1043327.62W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
DP

USE TITLE
SPRINGS

FAC

PAT

AIRPORT IDENT
KCOS

CITY
COLORADO SPRINGS

STATE
CO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/27/2013

REASON FOR REVISION:

UPDATED FIX USE

UPDATED REQUIRED CHARTING BY DEPICTING DP, CONTROLLER, AND EN ROUTE LOW

DEVELOPED BY:

DATE: 02/12/2013

OFFICE: AJV-354

NAME: PETER GETZ (NICHOLAS JACKSON)

APPROVED BY:

DATE: 04/30/2013

OFFICE: AJV-354

NAME: DEBORAH COPELAND

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZDV

ATC FACILITY: COS ATCT

OTHER: DEN APP CON