US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - 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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ELREY (IF)	ZLOGR (TF) (FB) (RNP 1.00)	082.62 / 3.00	10000
ZLOGR	JPRKS (RF) (FB) (RNP 1.00)	(2.90 NM RADIUS CCW (CFFTV)/9.11	8700
ETHAL (IF)	JPRKS (TF) (FB) (RNP 1.00)	262.72 / 4.27	8700
JPRKS	KELYG (TF) (FB) (RNP 1.00)	262.66 / 2.00	8100
CAPTJ (IF)	BCALN (TF) (FB) (RNP 1.00)	082.60 / 3.01	10000
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 10000 ON TRACK 262.52 TO GIVTE AND ON TRACK 315.00 TO HYGEN AND HOLD

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 309.00 INBOUND.
CHART FAS OBST: 5468 POLE 395021N/1043957W
DISTANCE TO THLD FROM 388 HATH: 1.04 NM.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
CHART MANDATORY 11000 AT CAPTJ
CHART MANDATORY 11000 AT ELREY
#TCH 5410.3 MSL (DO NOT CHART)
CHART LOC RWY 26.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT GASTI
3. FAC: 262.58 FAF: ____ DIST FAF TO MAP: 4.99 THLD: ____
4. MIN. ALT: GASTI 7000
5. DIST TO THLD FROM OM: 4.99 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 7000 GS ALT AT: GASTI 7000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.3# 34:1 IS CLEAR
8. MSA FROM: RW25 9900

MAG VAR: 8E EPOCH YEAR: 2015

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
AUTHORIZATION REQUIRED															
RNP 0.10 DA	5743	4000	388	5743	4000	388	5743	4000	388	5743	4000	388			
RNP 0.30 DA	5783	5000	428	5783	5000	428	5783	5000	428	5783	5000	428			

NOTES:
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 6000 AND RNP 0.30
(SEE FORM 8260-10)

QUALITY A CHECKED

CITY AND STATE	ELEVATION: 5434 THRE: 5355 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
DENVER, CO	DENVER INTL	RNAV	RNAV (RNP) Z RWY 25, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[X] YES [ ] NO		**CONCURRENT**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] **ZDV, DEN ATCT, DEN APP CON, CO AERO, AFLD MGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
CHARLIE SCHNEIDER	**AJV-354**	**01/05/2012**

APPROVED BY

NAME:		FIFO	DATE:
DEZ SILAGYI	**MANAGER**	**AJV-354**	

CHANGES:

1. ORIGINAL PROCEDURE

REASONS:

1. FPT REQUEST

EFFECTIVE CONCURRENT WITH: KDEN ILS OR LOC RWY 25 AMDT 3

6/10/2012: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 1/05/12
1. UPDATED UNCOMPENSATED BARO-VNAV NOTE HIGH TEMP FROM 10C (50F) TO 46C (116F)
2. CHANGED ELREY FROM (IAF) TO (IF) AND REMOVED (IF) FROM ZLOGR
3. REMOVED PLANVIEW NOTE AT BCALN
4. CHANGED CAPTJ FROM (IAF) TO (IF) AND REMOVED (IF) FROM BCALN

QUALITY CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
BCALN	BRNWL (RF) (FB) (RNP 1.00)	(2.77 NM RADIUS CW (CFFTT)/4.35	9800
BRNWL	PROCD (TF) (FB) (RNP 0.80)	172.68 / 1.69	9400
PROCD	KELYG (RF) (FB) (RNP 0.80)	(3.30 NM RADIUS CW (CFFTS)/5.19	8100
KELYG	GASTI (TF) (FB) (RNP 0.80)	262.63 / 3.73	7000
GASTI (FAF)	RW25 (MAP) (TF) (FO)	262.58 / 4.99	
RW25 (MAP)	GIVTE (TF) (FB) (1.00)	262.52/9.00	
GIVTE	HYGEN (TF) (FO) (RNP 1.00)	315.00/23.25	10000

NOTES, (CONT.):
ALL CATS VISIBILITY TO 1 3/8 MILE
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 26, EXCEPT FOR ARRIVALS AT CAPTJ AND ELREY
CHART PLANVIEW NOTE ELREY: MAX 210 KIAS
CHART PLANVIEW NOTE AT CAPTJ: MAX 210 KIAS

CHART PLANVIEW NOTE ADJACENT TO CAPTJ: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO ELREY: RF REQUIRED.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS
CHART PLANVIEW NOTE AT CAPTJ: (RNP 0.80).
CHART PLANVIEW NOTE AT ELREY: (RNP 0.80).
CHART PLANVIEW NOTE AT ETHAL: (RNP 0.80).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -25C (-13F) OR ABOVE 46C (116F).

4

CITY AND STATE	ELEVATION: 5434 THRE: 5355 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
DENVER, CO	DENVER INTL	RNAV	RNAV (RNP) Z RWY 25, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-18 - RNAV (RNP)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BCALN K20    W     N39580683W104285482                    E0085     NAR           BCALN
        SUSAEAENRT   BRNWL K20    W     N39551858W104252120                    E0085     NAR           BRNWL
        SUSAEAENRT   CAPTJ K20    W     N39580878W104324946                    E0086     NAR           CAPTJ
        SUSAEAENRT   CFFTS K20    W     N39533959W104294035                    E0085     NAR           CNF(CFFTS)
        SUSAEAENRT   CFFTT K20    W     N39552049W104285723                    E0085     NAR           CNF(CFFTT)
        SUSAEAENRT   CFFTV K20    W     N39472570W104271001                    E0085     NAR           CNF(CFFTV)
        SUSAEAENRT   ELREY K20    W     N39443360W104310615                    E0085     NAR           ELREY
        SUSAEAENRT   ETHAL K20    C     N39501673W104213461                    E0085     NAR           ETHAL
        SUSAEAENRT   GASTI K20    C     N39502352W104343344                    E0086     NAR           GASTI
        SUSAEAENRT   GIVTE K20    W     N39503059W104524321                    E0087     NAR           GIVTE
        SUSAEAENRT   HYGEN K20    C   L N40090389W105105791                    E0089     NAR           HYGEN
        SUSAEAENRT   JPRKS K20    W     N39501981W104270742                    E0085     NAR           JPRKS
        SUSAEAENRT   KELYG K20    W     N39502116W104294319                    E0085     NAR           KELYG
        SUSAEAENRT   PROCD K20    W     N39533715W104252276                    E0085     NAR           PROCD
        SUSAEAENRT   ZLOGR K20    W     N39443160W104271260                    E0085     NAR           ZLOGR

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2ADEN     0     160YHN39514200W104402340E008005434         1800018000C    MNAR    DENVER INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2FH25-Z ACAPTJ 010CAPTJK2EA0E  B    IF                                  11000     18000210              A-FS
        SUSAP KDENK2FH25-Z ACAPTJ 020BCALNK2EA0E       TF                                + 10000                         A FS
        SUSAP KDENK2FH25-Z ACAPTJ 030BRNWLK2EA0E   R010RF       0027700826    17270044   + 09800                 CFFTT K2EAA FS
        SUSAP KDENK2FH25-Z ACAPTJ 040PROCDK2EA0E    081TF                               + 09400                         A FS
        SUSAP KDENK2FH25-Z ACAPTJ 050KELYGK2EA0EE  R081RF       0033001727    26260052   + 08100                 CFFTS K2EAA FS
        SUSAP KDENK2FH25-Z AELREY 010ELREYK2EA0E  B    IF                                  11000     18000210              A-FS
        SUSAP KDENK2FH25-Z AELREY 020ZLOGRK2EA0E    010TF                               + 10000                         A FS
        SUSAP KDENK2FH25-Z AELREY 030JPRKSK2EA0E   L010RF       0029000826    26270091   + 08700                 CFFTV K2EAA FS
        SUSAP KDENK2FH25-Z AELREY 040KELYGK2EA0EE   010TF                               + 08100                         A FS
        SUSAP KDENK2FH25-Z AETHAL 010ETHALK2EA0E  B    IF                                          18000                   A FS
        SUSAP KDENK2FH25-Z AETHAL 020JPRKSK2EA0E    010TF                               + 08700                         A FS
        SUSAP KDENK2FH25-Z AETHAL 030KELYGK2EA0EE   010TF                               + 08100                         A FS
        SUSAP KDENK2FH25-Z H      010KELYGK2EA0E  I    IF                               + 08100     18000               A FS
        SUSAP KDENK2FH25-Z H      020GASTIK2EA1E  F 081TF                               + 07000                 RW25 BK2PGA FS
        SUSAP KDENK2FH25-Z H      020GASTIK2EA2W                                            A031A011                      FS
        SUSAP KDENK2FH25-Z H      030RW25 K2PG0GY M 031TF                                05410              -300          A FS
        SUSAP KDENK2FH25-Z H      040GIVTEK2EA0E M  010TF                                                                A FS
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: **5434** **THRE: 5355**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DENVER, CO	AIRPORT NAME: **DENVER INTL**	**RNAV**	**RNAV (RNP) Z RWY 25, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
SUSAP KDENK2FH25-Z H      050HYGENK2EA0EY   010TF                                  + 10000                          A FS
SUSAP KDENK2FH25-Z H      060HYGENK2EA0EE  R   HM                      30900070    + 10000                          A FS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2GRW25    0120002625 N39502637W104410217+0000    +161420535500005515OIIERP1

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2SRW25 K2PGB             0   18018009925                                                              M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 5434 THRE: 5355	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DENVER, CO	AIRPORT NAME: DENVER INTL	RNAV	RNAV (RNP) Z RWY 25, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CAPTJ	CAPTJ	010		IF		FB				AT 11000	AB 210
	CAPTJ	BCALN	020		TF		FB				AA 10000	
	CAPTJ	BRNWL	030		RF	R	FB	1.0		004.4	AA 09800	
	CAPTJ	PROCD	040		TF		FB	0.8			AA 09400	
	CAPTJ	KELYG	050		RF	R	FB	0.8		005.2	AA 08100	
	ELREY	ELREY	010		IF		FB				AT 11000	AB 210
	ELREY	ZLOGR	020		TF		FB	1.0			AA 10000	
	ELREY	JPRKS	030		RF	L	FB	1.0		009.1	AA 08700	
	ELREY	KELYG	040		TF		FB	1.0			AA 08100	
	ETHAL	ETHAL	010		IF		FB					
	ETHAL	JPRKS	020		TF		FB	1.0			AA 08700	
	ETHAL	KELYG	030		TF		FB	1.0			AA 08100	
		KELYG	010	FACF	IF		FB				AA 08100	
		GASTI	020	FAF	TF		FB	0.8			AA 07000	
		RW25	030	MAP	TF		FO	0.3			AT 05410	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	GIVTE	040		TF		FB	1.0				
	HYGEN	050		TF		FO	1.0			AA 10000	
	HYGEN	060		HM	R	FO		309.0(317.0T)	007.0	AA 10000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BCALN	N395806.83	W1042854.82	N3958.114	W10428.914
	BRNWL	N395518.58	W1042521.20	N3955.310	W10425.353
	CAPTJ	N395808.78	W1043249.46	N3958.146	W10432.824
	CFFTS	N395339.59	W1042940.35	N3953.660	W10429.673
	CFFTT	N395520.49	W1042857.23	N3955.342	W10428.954
	CFFTV	N394725.70	W1042710.01	N3947.428	W10427.167
	ELREY	N394433.60	W1043106.15	N3944.560	W10431.103
	ETHAL	N395016.73	W1042134.61	N3950.279	W10421.577
	GASTI	N395023.52	W1043433.44	N3950.392	W10434.557
	GIVTE	N395030.59	W1045243.21	N3950.510	W10452.720
	HYGEN	N400903.89	W1051057.91	N4009.065	W10510.965
	JPRKS	N395019.81	W1042707.42	N3950.330	W10427.124
	KELYG	N395021.16	W1042943.19	N3950.353	W10429.720
	PROCD	N395337.15	W1042522.76	N3953.619	W10425.379
	ZLOGR	N394431.60	W1042712.60	N3944.527	W10427.210
	RW25	N395026.37	W1044102.17	N3950.440	W10441.036

RUNWAY DATA — THRESHOLD

QUALITY 1

CITY AND STATE	ELEVATION: **5434** **THRE: 5355**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: Orig-E
DENVER, CO	AIRPORT NAME: **DENVER INTL**	**RNAV**	**RNAV (RNP) Z RWY 25, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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RWY	ELEVATION	TCH
RW25	05355	55

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 5434 THRE: 5355	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DENVER, CO	AIRPORT NAME: DENVER INTL	RNAV	RNAV (RNP) Z RWY 25, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	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.
INTERMEDIATE	ELREY	ZLOGR	1. AAO	394233.00N/1042906.00W	5939 (4E)	1000	AC98 AT2963	10000
(RNP 1.00)			2. TERRAIN	394233.00N/1042912.00W	5739 (5700)		AS1500	7200
INTERMEDIATE	ZLOGR	JPRKS	3. AAO	394242.00N/1042857.00W	5922 (4E)	500	AC98 AT2180	8700
STEPDOWN			4. TERRAIN	394230.00N/1042700.00W	5640 (5600)		AS1500	7100
(RNP 1.00)								
INTERMEDIATE	ETHAL	JPRKS	5. AAO	394818.00N/1042212.00W	5597 (4E)	500	AC98 AT2505	8700
(RNP 1.00)			6. TERRAIN	394821.00N/1042224.00W	5397 (5400)		AS1500	6900
INTERMEDIATE:	JPRKS	KELYG	7. AAO	394821.00N/1042948.00W	5640 (4E)	500	AC98 AT1862	8100
STEPDOWN			8. TERRAIN	394827.00N/1042945.00W	5427 (5400)		AS1500	6900
(RNP 1.00)								
INTERMEDIATE	CAPTJ	BCALN	9. TOWER (08-000369)	395626.90N/1043209.80W	5579 (5D)	1000	AC50 AT3371	10000
(RNP 1.00)			10. TERRAIN	395624.00N/1043206.00W	5322 (5300)		AS1500	6800
INTERMEDIATE	BCALN	BRNWL	11. AAO	395342.00N/1042306.00W	5384 (4E)	500	AC98 AT3818	9800
STEPDOWN			12. TERRAIN	395612.00N/1042857.00W	5151 (5200)		AS1500	6700
(RNP 1.00)								
INTERMEDIATE:	BRNWL	PROCD	13. AAO	395251.00N/1042700.00W	5427 (4E)	500	AC98 AT3375	9400
STEPDOWN			14. TERRAIN	395339.00N/1042645.00W	5191 (5200)		AS1500	6700
(RNP 0.80)								
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA	HYGEN				ASC		10000
			21. AAO	395401.67N/1045925.72W	5679 (2C)	1000	AC20	6700
ELEV:	5467/5532		22. TERRAIN	395401.67N/1045925.72W	5479 (5500)		AS1500	7000

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW25**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	269/ 29.0	8721 (4E)	9900					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
DENVER, CO	ELEVATION: 5434 AIRPORT NAME: DENVER INTL	RNAV	RNAV (RNP) Z RWY 25, ORIG	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZDV ARTCC DEN APP CON DEN TOWER	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KDEN DISTANCE: 0 HOURS REMOTE OPERATION: 0
SATISFACTORY ON: X V H F, X U H F, H F	LOCATION: KDEN	ADJUSTMENT: 0

4. MONITOR STATUS		
PRIMARY NAVAID:		
MONITOR POINT:		
HRS OPTN:	CAT 1	
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
X	ALSF-2 35R, 34L, 35L, 34R
	(S) SALS
X	MALSR 16L, 17R, 08, 25, 17L, 16R, 07, 26
X	HIRL 35R, 16L, 34L, 17R, 35L, 08, 25, 17L, 16R, 07, 34R, 26
	MIRL
	REIL
X	TDZ 35R, 16L, 34L, 17R, 35L, 16R, 07, 34R, 26
X	C/L 35R, 16L, 34L, 17R, 35L, 08, 25, 17L, 16R, 07, 34R, 26
X	OTHER (SPECIFY) PAPI-4R 35R, 35L, 16R, 07 PAPI-4L 16L, 34L, 17R, 08, 25, 17L, 34R, 26

6. RUNWAY MARKINGS	
BASIC	
ALL WEATHER	PIR-G 35R, 16L, 34L, 17R, 35L, 25, 17L, 16R, 34R, 26
INSTRUMENT	

7. RUNWAY VISUAL RANGE	
APPROACH	35R, 16L, 34L, 17R, 35L, 08, 25, 17L, 16R, 07, 34R, 26
MIDFIELD	35R, 16L, 34L, 17R, 35L, 17L, 16R, 34R
ROLL OUT	35R, 16L, 34L, 17R, 35L, 08, 25, 17L, 16R, 07, 34R, 26

8. GLIDE PATH		
GP ANGLE: 3.00		ELEV RWY THRESHOLD: 5355.0
DISTANCE FROM RWY:		ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.3

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY:	DATE:
CHARLIE SCHNEIDER	01/05/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

MISSED APPROACH IAW 8260.52

25 DEGREE BANK ANGLE USED IN MISSED APPROACH TO ALLOW FOR MINIMUM SEGMENT LENGTH

BARO-VNAV NA BELOW -25C (-13F) OR ABOVE 10C (50F).
ACT: -25
DELTA ISA LOW: -29.1324

VEB ROC APPLIED/USED.
VEB DATA: SEE ATTACHED SPREADSHEETS.

BACK-UP ALTIMETER NOT PUBLISHED. REDUNDANT REPORTING ON AIRPORT.

VGSI DATA: 3.00/83.3

THE MAXIMUM TREE HEIGHT WITHIN 10NM OF DEN IS 75FT AGL, 50 FT WITHIN 20,000 FT
SOURCE FROM COLORADO STATE FOREST SERVICE, DIVISION OF COLORADO STATE UNIVERSITY

RF SEGMENT RADIUS/BANK ANGLE COMPUTATIONS:

SEGMENT	ALT	KIAS	KTAS	HAA	VKTW*	TR	BA
BCALN-BRNWL	10485	210	254.04	5051.2	43.0	2.77	24.92
PROCD-KELYG	9400	210	249.48	3966.2	44.0	3.30	20.82
ZLOGR-JPRKS	11000	210	256.20	5566.2	46.0	2.90	24.68

*VKTW: OBTAINED FROM HISTORICAL WIND DATA (MITRE) 99% USED

MAX SPEED ELREY TO ZLOGR 210 KIAS
MAX SPEED ZLOGR TO JPRKS - 210 KIAS
MAX SPEED JPRKS TO KELYG - 210 KIAS
MAX SPEED CAPTJ TO BCALN - 210 KIAS
MAX SPEED BCALN TO BRNWL- 210 KIAS
MAX SPEED BRNWL TO PROCD- 210 KIAS
MAX SPEED PROCD TO KELYG - 210 KIAS

KDEN ASOS ON SERVICE A/24 HRS

INITIAL, INTERMEDIATE AND INTERMEDIATE STEPDOWN FIX ALTITUDES AND LOCATIONS PER ATC REQUEST FOR SEPARATION AND AIRSPACE PURPOSES

PROCEDURE CONNECTED TO MULTIPLE RNAV STARS, RADAR REQUIRED NOTE PER ATC REQUEST

AVERAGE COLD TEMPERATURE BASED ON 5 YEAR HISTORY (2006-2010)

OBST #20: 2011-ANM-603-NRA

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE:	PROCD	KELYG	15. AAO	394851.00N/1042951.00W	5620 (4E)	500	AC98 AT1882	8100
STEPDOWN			16. TERRAIN	394900.00N/1042945.00W	5414 (5400)		AS1500	6900
(RNP 0.80)								
INTERMEDIATE:	KELYG	GASTI	17. AAO	394845.00N/1043242.00W	5663 (4E)	500	AC98 VEB2	6300
STEPDOWN			18. TERRAIN	394845.00N/1043245.00W	5463 (5500)		AS1500	7000
(RNP 0.80)								
FINAL: RNP 0.10	GASTI	RW25	19. POLE (08-000826)	395021.00N/1043957.00W	5468 (1A)	21.71:1	AC3 MA46	5743/388
FINAL: RNP 0.30	GASTI	RW25	19. POLE (08-000826)	395021.00N/1043957.00W	5468 (1A)	21.67:1	AC3 MA21	5783/428
MISSED APPROACH	DA	RW25	19. POLE (08-000826)	395021.00N/1043957.00W	5468 (1A)	ASC		
(RNP 0.10-1.00)		(40:1)						
MISSED APPROACH	DA	RW25	19. POLE (08-000826)	395021.00N/1043957.00W	5468 (1A)	ASC		
(RNP 0.30-1.00)		(40:1)						
MISSED APPROACH	RW25	GIVTE				ASC		
(RNP 0.10-1.00)		(40:1)						
MISSED APPROACH	RW25	GIVTE				ASC		
(RNP 0.30-1.00)		(40:1)						
MISSED APPROACH	GIVTE	HYGEN				ASC		
(RNP 1.00)		(40:1)						

3. MISSED APPROACH										
	MAP:									
	ELEV:									

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450							
CATEGORY D	2.3 NM		550							
CATEGORY E	4.5 NM		550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
DENVER, CO	ELEVATION: 5434 AIRPORT NAME: DENVER INTL	RNAV	RNAV (RNP) Z RWY 25, ORIG	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS ☐ FAA ☐ A/C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING	☐ **ALS**
	☐ **(S) SALS**
	☐ **MALS**
	☐ **HIRL**
	☐ **MIRL**
	☐ **REIL**
	☐ **TDZ**
	☐ **C/LINE**
	☐ **OTHER (SPECIFY)**

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:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: BCALN **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395806.83N/1042854.82W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: BRNWL **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395518.58N/1042521.20W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CAPTJ **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395808.78N/1043249.46W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFTS **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395339.59N/1042940.35W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFTT **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395520.49N/1042857.23W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFTV **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394725.70N/1042710.01W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ELREY **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394433.60N/1043106.15W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ETHAL **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395016.73N/1042134.61W **TYPE:** WP, RADAR, 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	DIST FROM FAC FEET	MRA	MAA
1	DENVER	I-ERP	LOC/DME		082.51	090.51	14.82	17.13		10000	13000
2	FALCON	FQF	VORTAC	H	042.68	053.68		14.99		10000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-ERP	LOC/DME	R-083	18	10000	13000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES
ILS/DME COORDINATES 395023.66N/1044048.62W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 25	1, 2		KDEN	DENVER	CO (US)
IAP	RNAV (GPS) Y RWY 25			KDEN	DENVER	CO (US)
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
FIX MOVED 122 FT WEST, COORDINATES REVISED
FAC 1 BRG CHANGED FROM 079.52/090.52 TO 082.51/090.51, ADDED DIST TO FAC
FAC 2 BRG CHANGED FROM 042.73/053.73 TO 042.68/053.68, ADDED DIST TO FAC
UPDATED FIX USE
RAISED FAC 1 AND 2 MRA FROM 7000 TO 10000
ADDED FAC 1 ESV DATA

DEVELOPED BY: **DATE:** 11/14/2011 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: GASTI **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395023.52N/1043433.44W **TYPE:** WP, RADAR, 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	DIST FROM FAC FEET	MRA	MAA
1	DENVER	I-ERP	LOC/DME		082.51	090.51	4.82	7.13	43344	7000	11000
2	FALCON	FQF	VORTAC	H	002.05	013.05		9.21		7000	11000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES
ILS/DME COORDINATES 395023.66N/1044048.62W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 25	1, 2		KDEN	DENVER	CO (US)
IAP	RNAV (GPS) Y RWY 25			KDEN	DENVER	CO (US)
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE
REMOVED OLD FAC 1
FIX MOVED 437FT EAST, COORDINATES REVISED
FAC 1 BRG CHANGED FROM 079.52/090.52 TO 082.51/090.51
FAC 2 BRG CHANGED FROM 001.61/012.61 TO 002.05/013.05
FAC 1 DME CHANGED FROM 4.74 TO 4.82, ADDED DIST FROM FAC
ADDED FAC 2 DIST FROM FAC

DEVELOPED BY: **DATE:** 11/12/2011 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: GIVTE **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395030.59N/1045243.21W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 25			KDEN	DENVER	CO (US)
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
MOVED FIX 3.32 NM WEST TO ACCOMODATE RNP MISSED APPROACH LEGS.
FIX NAME RETAINED PER ATC REQUEST.
REMOVED FAC 1 - NO LONGER NEEDED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/14/2011 **OFFICE:** AJV-354 **NAME:** VICTOR BOONE

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: HYGEN **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 400903.89N/1051057.91W **TYPE:** WP, 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	DIST FROM FAC FEET	MRA	MAA
1	GILL	GLL	VOR/DME	H	221.00	234.00	35.81	35.81		8000	17500
2	FALCON	FQF	VORTAC	H	306.00	317.00	37.90	37.90		8000	17500
3	DENVER	DEN	VOR/DME	H	302.30	310.30	31.49	31.49		9100	17500
4	KREMMLING	RLG	VOR/DME	H	066.87	080.87	58.70	58.70		17000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RLG	VOR/DME	R-067	59	17000	18000

FIX RESTRICTIONS:
MCA V220 17000 SOUTHWEST BOUND
MCA V85 11500 NORTHWEST BOUND

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	FQF	VORTAC	306.00	306.00	R	1		10000	14000	11	12
2	SE		WP	126.00	306.00	R		7	10200	14000	10	11
3	SE	DEN	VOR/DME	302.30	302.30	R	1		10400	14000	11	12
4	SE		WP	129.00	309.00	R		7	9000	14000	10	11
5	SE	FQF	VORTAC	306.00	306.00	R	1		9100	14000	11	12
6	SE	DEN	VOR/DME	302.30	302.30	R	1		9100	14000	11	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	401511.20N/1053651.40W	14455	6C
1	230	AAO	400824.00N/1052103.00W	8780	4E
1	310	AAO	400821.00N/1052415.00W	8846	4E
2	230	AAO	400824.00N/1052103.00W	8780	4E
2	310	AAO	400813.20N/1052117.30W	8788	6C
3	230	AAO	400824.00N/1052103.00W	8780	4E
3	310	AAO	401703.00N/1052424.00W	9023	4E
4	230	AAO	400824.00N/1052103.00W	8780	4E
5	230	AAO	400824.00N/1052103.00W	8780	4E
6	230	AAO	400824.00N/1052103.00W	8780	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
UPN	265	375
1	230	86
1	310	267
2	310	232
3	230	97
3	310	283
5	230	83
6	230	97

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC Z RWY 29R	KBJC	DENVER	CO (US)
1	ILS OR LOC Y RWY 29R	KBJC	DENVER	CO (US)
3	ILS OR LOC Z RWY 29R	KBJC	DENVER	CO (US)
3	ILS OR LOC Y RWY 29R	KBJC	DENVER	CO (US)

REMARKS:
GILL (FAC 1) AND FALCON (FAC 2) USED TO ESTABLISH FIX COORDINATES
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 16300.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 CONTROLLING OBSTRUCTION (230 KIAS) 11750.28 FT INTO SECONDARY AREA (7929 EQUIV).
PAT 2 CONTROLLING OBSTRUCTION (230 KIAS) 11585.56 FT INTO SECONDARY AREA (7810 EQUIV).
PAT 3 CONTROLLING OBSTRUCTION (230 KIAS) 11789.04 FT INTO SECONDARY AREA (7956 EQUIV).
PAT 4 CONTROLLING OBSTRUCTION (230 KIAS) 11585.56 FT INTO SECONDARY AREA (7810 EQUIV).
PAT 5 CONTROLLING OBSTRUCTION (230 KIAS) 11750.28 FT INTO SECONDARY AREA (7929 EQUIV).
PAT 6 CONTROLLING OBSTRUCTION (230 KIAS) 11789.04 FT INTO SECONDARY AREA (7956 EQUIV).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V220	1, 2, 4				(US)
EN ROUTE	V85	1, 2				(US)

IAP	ILS OR LOC Y RWY 29R	1, 2, 3	1, 3	KBJC	DENVER	CO (US)
IAP	ILS OR LOC Z RWY 29R	1, 2, 3	1, 3	KBJC	DENVER	CO (US)
IAP	RNAV (GPS) RWY 29L		2	KBJC	DENVER	CO (US)
IAP	RNAV (GPS) RWY 29R		2	KBJC	DENVER	CO (US)
IAP	ILS OR LOC RWY 25	1, 2, 3	1, 6	KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 34L	1, 2, 3	5, 6	KDEN	DENVER	CO (US)
IAP	ILS OR LOC RWY 34R	1, 2, 3	5, 6	KDEN	DENVER	CO (US)
IAP	ILS RWY 34L (CAT II/III)	1, 2, 3	5, 6	KDEN	DENVER	CO (US)
IAP	ILS RWY 34L (SA CAT I)	1, 2, 3	5, 6	KDEN	DENVER	CO (US)
IAP	ILS RWY 34R (CAT II/CAT III)	1, 2, 3	5, 6	KDEN	DENVER	CO (US)
IAP	ILS RWY 34R (SA CAT I)	1, 2, 3	5, 6	KDEN	DENVER	CO (US)
IAP	RNAV (GPS) Y RWY 25		4	KDEN	DENVER	CO (US)
IAP	RNAV (GPS) Y RWY 34L		4	KDEN	DENVER	CO (US)
IAP	RNAV (GPS) Y RWY 34R		4	KDEN	DENVER	CO (US)
IAP	RNAV (RNP) Z RWY 34L		4	KDEN	DENVER	CO (US)
IAP	RNAV (RNP) Z RWY 34R		4	KDEN	DENVER	CO (US)
IAP	RNAV (GPS) RWY 33			KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	TOMSN	1, 2		KDEN	DENVER	CO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
FACILITY 4 ADDED TO FIX MAKE-UP
FIX MOVED 1630.70 FT NE FAC 1DME CHANGED FROM 36.08 TO 35.81, FAC 2 MAG BRG CHANGED FROM 305.60 TO 306, TRUE BRG CHANGED FROM 316.60 TO 317.00 DME AND DISTANCE CHANGED FROM 37.93 TO 37.90, FAC 3 MAG BRG CHANGED FROM 298.83 TO 299.30, TRUE BRG CHANGED FROM 309.83 TO 310.30 DISTANCE CHANGED FROM 31.55 TO 31.49.
HOLDING PAT 1 & 2 CRS INBOUND CHANGED FROM 305.60 TO 306.00. PAT 3 CRS INBOUND CHANGED FROM 298.83 TO 302.30
FIX USE UPDATED
CHANGED FAC 1 MRA FROM 9000 TO 8000
RAISED MCA FOR 85 NORTHWEST BOUND FROM 11300 TO 11500
ADDED PATTERN 4, 5, 6

DEVELOPED BY: **DATE:** 12/08/2011 **OFFICE:** AJV-311 **NAME:** LORETTA ZUEST

APPROVED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** RAY NUSSEAR

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: JPRKS **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395019.81N/1042707.42W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-353 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: KELYG **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395021.16N/1042943.19W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: PROCD **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 395337.15N/1042522.76W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZLOGR **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394431.60N/1042712.60W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 25			KDEN	DENVER	CO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/03/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **DENVER** STATE: **CO**

AIRPORT NAME: **DENVER INTL** ID: **KDEN**

PROCEDURE: **RNAV (RNP) Z RWY 25** AMDT: **ORIG**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.11**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **270.58**
4. High Terrain in **FINAL** segment containing 1000' point **5429**
5. Distance from **THLD** to 1500' point **4.79**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **270.58**
8. High Terrain in **FINAL** segment containing 1500' point **5429**
9. Threshold Coordinates (if straight-in) ... **395026.37N / 1044102.17W**
10. ARP Coordinates ..... **395142.00N / 1044023.40W**
11. Runway Approach End and distance furthest from ARP.....RWY **07**
    Distance **2.77** NM
12. FAF Coordinates ..... **395023.52N / 1043433.44W**
    (Click to Select)

REMARKS: Approach/Drawing attached.

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Dez Silagyi, Manager, Terminal Procedures & Charting Services, Western Team, AJV-354

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

5/31/2012

DENVER, CO (KFTG)
ILS OR LOC RWY 17 AMDT 1
ILS OR LOC RWY 35 AMDT 1
TAKE-OFF MINIMUMS AMDT 3

DENVER, CO (KAPA)
TAKE-OFF MINIMUMS AMDT 5

DENVER, CO (KBJC)
TAKE-OFF MINIMUMS AMDT 5

DENVER, CO (KDEN)
ILS OR LOC RWY 35L AMDT 5
ILS OR LOC RWY 35R AMDT 3
RNAV (GPS) Y RWY 35L AMDT 2
RNAV (GPS) Y RWY 35R AMDT 2
RNAV (RNP) Z RWY 35L ORIG
RNAV (RNP) Z RWY 35R ORIG
ILS OR LOC RWY 25 AMDT 3
ILS OR LOC RWY 7 AMDT 3
ILS OR LOC RWY 8 AMDT 5
ILS RWY 26 AMDT 3
RNAV (GPS) Y RWY 25 AMDT 1
RNAV (GPS) Y RWY 26 AMDT 1
RNAV (GPS) Y RWY 7 AMDT 1
RNAV (GPS) Y RWY 8 AMDT 1
RNAV (RNP) Z RWY 25 ORIG

RNAV (RNP) Z RWY 26 ORIG
RNAV (RNP) Z RWY 7 ORIG
RNAV (RNP) Z RWY 8 ORIG
ILS OR LOC RWY 16R AMDT 1
ILS RWY 16L AMDT 3
RNAV (GPS) Y RWY 16L AMDT 1
RNAV (GPS) Y RWY 16R AMDT 1
RNAV (RNP) Z RWY 16L ORIG
RNAV (RNP) Z RWY 16R ORIG
ILS OR LOC RWY 17L AMDT 4
ILS RWY 17R AMDT 3
RNAV (GPS) Y RWY 17L AMDT 1
RNAV (GPS) Y RWY 17R AMDT 1
RNAV (RNP) Z RWY 17L ORIG
RNAV (RNP) Z RWY 17R ORIG
ILS OR LOC RWY 34L AMDT 2
ILS OR LOC RWY 34R AMDT 3
RNAV (GPS) Y RWY 34L AMDT 2
RNAV (GPS) Y RWY 34R AMDT 2
RNAV (RNP) Z RWY 34L ORIG
RNAV (RNP) Z RWY 34R ORIG

Estimated Chart Date: 5/31/2011

Please publish these changes in the National Flight Data Digest.

COLORADO

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Denver	Denver Intl	Airport	KDEN / DEN	Old 11° East / New 08° East	2015
Denver		ILS	ACX	Old 11° East / New 08° East	2015
Denver		ILS	LTT	Old 11° East / New 08° East	2015
Denver		ILS	DPP	Old 09° East / New 08° East	2015
Denver		ILS	AQD	Old 09° East / New 08° East	2015
Denver		ILS	OUF	Old 09° East / New 08° East	2015
Denver		ILS	JOY	Old 11° East / New 08° East	2015
Denver		ILS	ERP	Old 11° East / New 08° East	2015
Denver		ILS	DZG	Old 11° East / New 08° East	2015

Denver		ILS	DXU	Old 09° East / New 08° East	2015
Denver		ILS	BXP	Old 11° East / New 08° East	2015
Denver		ILS	DQQ	Old 11° East / New 08° East	2015
Denver		ILS	FUI	Old 11° East / New 08° East	2015
Denver	DENVER	VOR/ DME	DEN	Old 11° East / New 08° East	2015
Denver	MILE HIGH	VORTAC	DVV	Old 11° East / New 08° East	2015

If you have any questions please notify Dez Silagyi (405-954-9977).