Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 01/24/2012	Task #: 2007072521568002003	Request #: 20070725215680
Procedure: RNAV (RNP) Y RWY 21 ORIG		Airport ID: KABQ	Airport: ALBUQUERQUE INTL SUNPORT		Reimbursable #:
City: ALBUQUERQUE	ST: NM	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type: RNP	Specialist: SCOTT CORY			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/29/2012	06/01/2012	JILL OLSON	
QA:	06/01/2012	06/01/2012	STEVEN SZUKALA	
Liaison:	06/01/2012		Alfonso	APPROVAL REQUEST

Procedure Comments:

Remark Type: INFORMATION

pkg 5 of 8

ALBUQUERQUE, NM ALBUQUERQUE INTL SUNPORT (KABQ) RNAV (RNP) Y RWY 21, ORIG (RNP) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ALBUQUERQUE (ABQ) VTAC, REV 15; BGEYE, ORIG; CADAT, REV 1; CFDXF, ORIG; CFDXG, ORIG; CFDXH, ORIG; CLIPS, ORIG; FOXRR, ORIG; HUMKU, ORIG; KAGNE, ORIG; KEIFR, ORIG; NODME-INT, REV 2; TEENR, ORIG; WAPMA, ORIG.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

RNAV (RNP) Y RWY 21

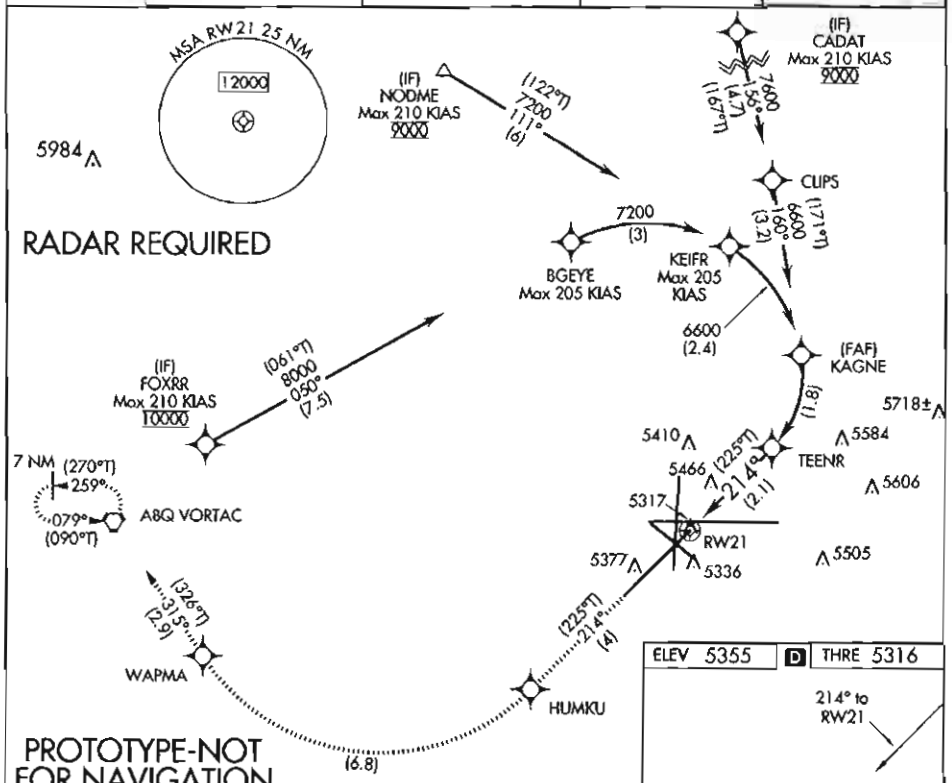
ALBUQUERQUE INTL SUNPORT (ABQ)

APP CRS	Rwy Idg	10000
214°	THRE	5316
	Apt Elev	5355

For uncompensate Baro-VNAV systems, procedure NA below -12°C (11°F) or above 47°C (116°F). RF Required. GPS Required.

MISSED APPROACH: Climb to 8000 on track 214° to HUMKU, right turn to WAPMA, then on track 315° to ABQ VORTAC and hold.

ATIS	ALBUQUERQUE APP CON	ALBUQUERQUE TOWER	GND CON	CLNC DEL
118.0 257.7	123.9 354.1	120.3 351.9	121.9 348.6	119.2 259.3

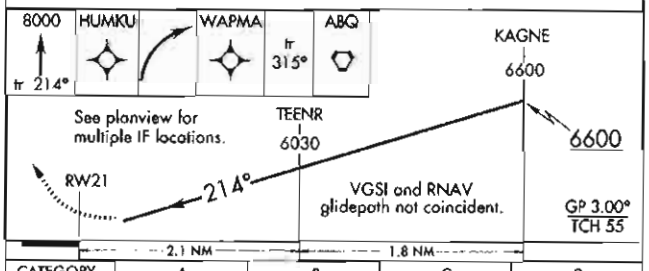


ELEV 5355 D THRE 5316

214° to RW21

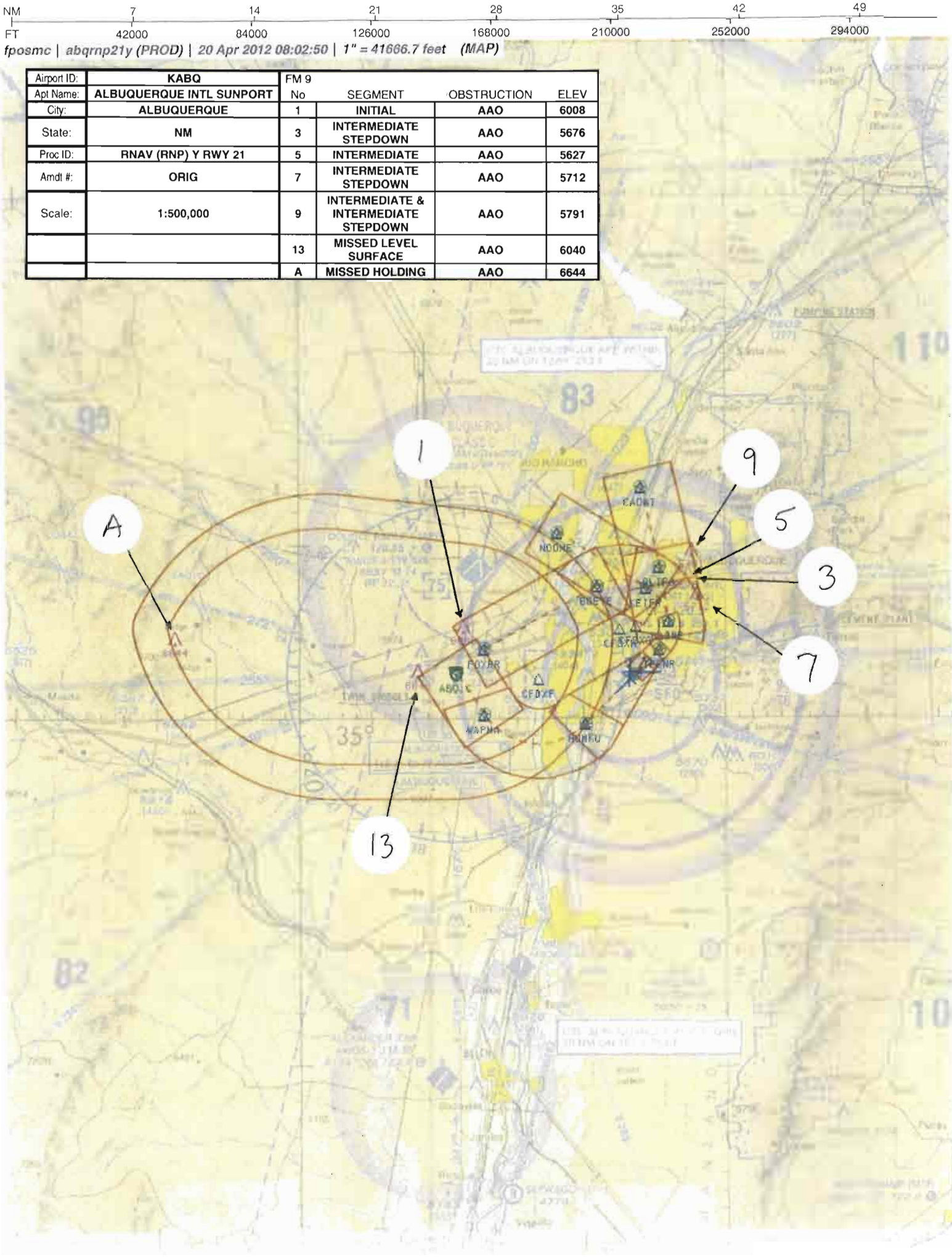
FOXRR:	3504.007N / 10646.996W
BGEYE:	3507.617N / 10639.019W
KEIFR:	3507.540N / 10635.571W
CFDXH:	3505.160N / 10637.375W
NODME:	3510.727N / 10641.808W
KAGNE:	3505.620N / 10634.009W
CADAT:	3513.346N / 10635.949W
CLIPS:	3508.742N / 10634.640W
TEENR:	3503.976N / 10634.648W
CFDXG:	3505.309N / 10636.281W
RW21:	3502.503N / 10636.423W
HUMKU:	3459.646N / 10639.872W
WAPMA:	3500.219N / 10647.028W
CFDXF:	3502.333N / 10643.166W
ABQ:	3502.628N / 10648.979W

TDZ/CL Rwys 3 and 8
HIRL Rwys 3-21 and 8-26
MIRL Rwys 12-30 and 17-35
REIL Rwys 3, 17, 21, 26, 30 and 35



CATEGORY	A	B	C	D
RNP 0.30 DA	5758-1½ 442 (500-1½)			

AUTHORIZATION REQUIRED



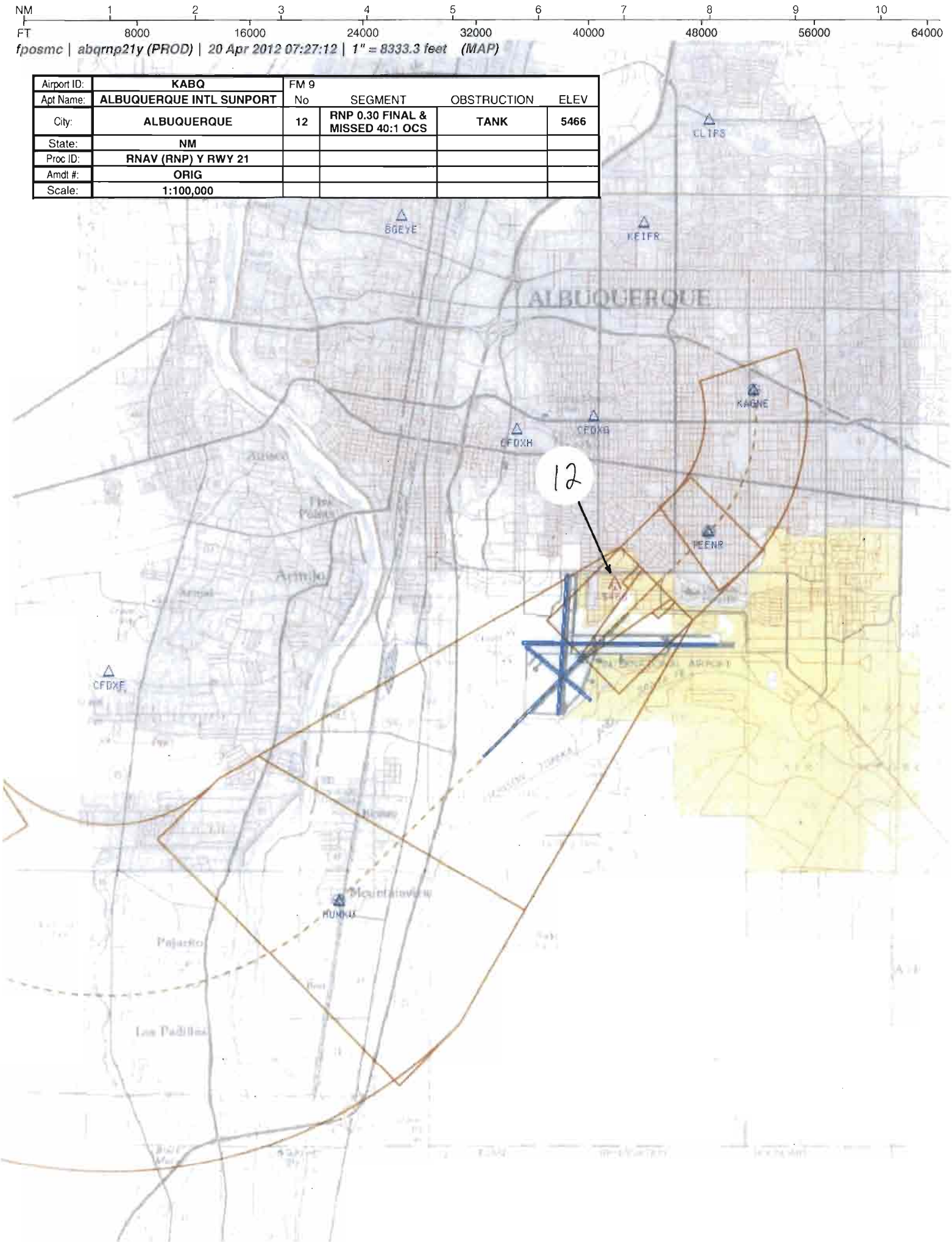
Airport ID:	KABQ	FM 9			
Apt Name:	ALBUQUERQUE INTL SUNPORT	No	SEGMENT	OBSTRUCTION	ELEV
City:	ALBUQUERQUE	1	INITIAL	AAO	6008
State:	NM	3	INTERMEDIATE STEPDOWN	AAO	5676
Proc ID:	RNAV (RNP) Y RWY 21	5	INTERMEDIATE	AAO	5627
Amdt #:	ORIG	7	INTERMEDIATE STEPDOWN	AAO	5712
Scale:	1:500,000	9	INTERMEDIATE & INTERMEDIATE STEPDOWN	AAO	5791
		13	MISSED LEVEL SURFACE	AAO	6040
		A	MISSED HOLDING	AAO	6644

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fposmc | abqrnp21y (PROD) | 20 Apr 2012 07:27:12 | 1" = 8333.3 feet (MAP)

Airport ID:	KABQ	FM 9			
Apt Name:	ALBUQUERQUE INTL SUNPORT	No	SEGMENT	OBSTRUCTION	ELEV
City:	ALBUQUERQUE	12	RNP 0.30 FINAL & MISSED 40:1 OCS	TANK	5466
State:	NM				
Proc ID:	RNAV (RNP) Y RWY 21				
Amdt #:	ORIG				
Scale:	1:100,000				



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
FOXRR (IF)	BGEYE (TF) (FB) (RNP 1.00)	050.12 / 7.47	8000
BGEYE	KEIFR (RF) (FB) (RNP 1.00)	(2.80 NM RADIUS CW CFDXH)/2.97	7200
NODME (IF)	KEIFR (TF) (FB) (RNP 1.00)	110.86 / 6.02	7200
KEIFR	KAGNE (RF) (FB) (RNP 1.00)	(2.80 NM RADIUS CW CFDXH)/2.38	6600
CADAT (IF)	CLIPS (TF) (FB) (RNP 1.00)	155.86 / 4.72	7600
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 8000 ON TRACK 213.80 TO HUMKU, RIGHT TURN TO WAPMA, THEN ON TRACK 315.34 TO ABQ VORTAC AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT KAGNE
3. FAC: % FAF: DIST FAF TO MAP: 3.86 THLD:
4. MIN. ALT: KAGNE 6600
5. DIST TO THLD FROM OM: 3.86 MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 6600 GS ALT AT: KAGNE 6600, TEENR 6030 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 55.0# 34:1 IS CLEAR
8. MSA FROM: RW21 12000

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 079.00 INBOUND.
CHART FAS OBST: 5466 TANK 350317N/1063558W
CHART 5317 SIGN 350229N/1063624W
DISTANCE TO THLD FROM 442 HATH: 1.21 NM.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 5371.1 MSL (DO NOT CHART)
CHART MANDATORY 10000 AT FOXRR
CHART MANDATORY 9000 AT NODME
CHART MANDATORY 9000 AT CADAT

MAG VAR: 11E EPOCH YEAR: 1995

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 0.30 DA	5758	1 1/2	442	5758	1 1/2	442	5758	1 1/2	442	5758	1 1/2	442			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -12C (11F) OR ABOVE 47C (116F).
CHART NOTE: RF REQUIRED.
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE AT BGEYE : MAX 205 KIAS.
(SEE FORM 8260-10)

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 5355 THRE: 5316 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
ALBUQUERQUE, NM	ALBUQUERQUE INTL SUNPORT	RNAV	RNAV (RNP) Y RWY 21, ORIG	AMDT: NONE
				DATED

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] **ZAB, ABQ ATCT, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
SCOTT M. CORY	**AJV-353**	**04/19/2012**

APPROVED BY		
NAME:	FIFO	DATE:
LARRY H STROUT MANAGER	**AJV-353**	

CHANGES:

1. ORIGINAL PROCEDURE.

REASONS:

1. FPT REQUEST.

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
CLIPS	KAGNE (TF) (FB) (RNP 1.00)	159.57 / 3.16	6600
KAGNE (FAF)	%TEENR (RF) (FB)	(1.89 NM RADIUS CW CFDXG)/1.79	
TEENR	%RW21 (MAP) (TF) (FO)	213.82 / 2.07	
RW21 (MAP)	HUMKU (TF) (FB) (RNP 1.00)	213.80 / 4.02	
HUMKU	WAPMA (RF) (FB) (RNP 1.00)	(3.81 NM RADIUS CW CFDXF) / 6.76	
WAPMA	ABQ VORTAC (TF) (FO) (RNP 1.00)	315.34 / 2.89	8000

NOTES, (CONT.):
CHART PLANVIEW NOTE AT KEIFR : MAX 205 KIAS.
CHART PLANVIEW NOTE AT CADAT : MAX 210 KIAS.
CHART PLANVIEW NOTE AT FOXRR : MAX 210 KIAS.
CHART PLANVIEW NOTE AT NODME : MAX 210 KIAS.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 5355 THRE: 5316	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
ALBUQUERQUE, NM	AIRPORT NAME: ALBUQUERQUE INTL SUNPORT	RNAV	RNAV (RNP) Y RWY 21, 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:

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.

ARINC PACKET - 424-18 - RNAV (RNP)

```
          1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAD        ABQ   K2011320VTHA N35023766W106485872    N35023766W106485872E0130057492     NARALBUQUERQUE

          1         2         3         4         5         6         7         8         9         0         1         2         3
WP        12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAEAENRT   BGEYE K20    W     N35073705W106390114                    E0091     NAR           BGEYE
          SUSAEAENRT   CADAT K20    W     N35132076W106355692                    E0091     NAR           CADAT
          SUSAEAENRT   CFDXF K20    W     N35022000W106430998                    E0091     NAR           CNF(CFDXF)
          SUSAEAENRT   CFDXG K20    W     N35051857W106361687                    E0091     NAR           CNF(CFDXG)
          SUSAEAENRT   CFDXH K20    W     N35050959W106372250                    E0091     NAR           CNF(CFDXH)
          SUSAEAENRT   CLIPS K20    W     N35084453W106343842                    E0091     NAR           CLIPS
          SUSAEAENRT   FOXRR K20    W     N35040040W106465976                    E0092     NAR           FOXRR
          SUSAEAENRT   HUMKU K20    W     N34593879W106395233                    E0091     NAR           HUMKU
          SUSAEAENRT   KAGNE K20    W     N35053720W106340055                    E0091     NAR           KAGNE
          SUSAEAENRT   KEIFR K20    W     N35073243W106353428                    E0091     NAR           KEIFR
          SUSAEAENRT   NODME K20    C   L N35104364W106414851                    E0092     NAR           NODME
          SUSAEAENRT   TEENR K20    W     N35035853W106343885                    E0091     NAR           TEENR
          SUSAEAENRT   WAPMA K20    W     N35001315W106470170                    E0092     NAR           WAPMA

          1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KABQK2AABQ     0     137YHN35022470W106363310E011005355         1800018000C    MNAR    ALBUQUERQUE INTL SUNPORT

          1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KABQK2FH21-Y ACADAT 010CADATK2EA0E  B    IF                                  09000 .   18000210              A-FS
          SUSAP KABQK2FH21-Y ACADAT 020CLIPSK2EA0E    010TF                               + 07600                         A FS
          SUSAP KABQK2FH21-Y ACADAT 030KAGNEK2EA0EE   010TF                               + 06600                         A FS
          SUSAP KABQK2FH21-Y AFOXRR 010FOXRRK2EA0E  B    IF                                  10000     18000210              A-FS
          SUSAP KABQK2FH21-Y AFOXRR 020BGEYEK2EA0E    010TF                               + 08000         205               A-FS
          SUSAP KABQK2FH21-Y AFOXRR 030KEIFRK2EA0E   R010RF       0028000501    11090030   + 07200         205    CFDXH K2EAA-FS
          SUSAP KABQK2FH21-Y AFOXRR 040KAGNEK2EA0EE  R010RF       0028001109    15960024   + 06600                CFDXH K2EAA FS
          SUSAP KABQK2FH21-Y ANODME 010NODMEK2EA0E  B    IF                                  09000     18000210              A-FS
          SUSAP KABQK2FH21-Y ANODME 020KEIFRK2EA0E    010TF                               + 07200         205               A-FS
          SUSAP KABQK2FH21-Y ANODME 030KAGNEK2EA0EE  R010RF       0028001109    15960024   + 06600                CFDXH K2EAA FS
          SUSAP KABQK2FH21-Y H      020KAGNEK2EA1E  F    IF                               + 06600     18000       RW21  K2PGA FS
          SUSAP KABQK2FH21-Y H      020KAGNEK2EA2W                                          A031                          FS
          SUSAP KABQK2FH21-Y H      021TEENRK2EA0E   R031RF       0018902138    21380018   + 06030               -300CFDXG K2EAA FS
          SUSAP KABQK2FH21-Y H      030RW21 K2PG0GY M 031TF                               05371               -300          A FS
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 5355 THRE: 5316	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALBUQUERQUE, NM	AIRPORT NAME: **ALBUQUERQUE INTL SUNPORT**	**RNAV**	**RNAV (RNP) Y RWY 21, 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 KABQK2FH21-Y H      040HUMKUK2EA0E M  010TF                                                                A FS
SUSAP KABQK2FH21-Y H      050WAPMAK2EA0E   R010RF       0038102138    31530068                          CFDXF K2EAA FS
SUSAP KABQK2FH21-Y H      060ABQ  K2D 0VY   010TF                                  + 08000                        A FS
SUSAP KABQK2FH21-Y H      070ABQ  K2D 0VE  L   HM                      07900070    + 08000                        A FS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2GRW21    0100002138 N35023027W106362546-0100    +15992053160000551 50R

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
        SUSAP KABQK2SRW21 K2PG              0   18018012025                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 5355 THRE: 5316	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALBUQUERQUE, NM	AIRPORT NAME: **ALBUQUERQUE INTL SUNPORT**	**RNAV**	**RNAV (RNP) Y RWY 21, 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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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CADAT	CADAT	010		IF		FB				AT 09000	AB 210
	CADAT	CLIPS	020		TF		FB	1.0			AA 07600	
	CADAT	KAGNE	030		TF		FB	1.0			AA 06600	
	FOXRR	FOXRR	010		IF		FB				AT 10000	AB 210
	FOXRR	BGEYE	020		TF		FB	1.0			AA 08000	AB 205
	FOXRR	KEIFR	030		RF	R	FB	1.0		003.0	AA 07200	AB 205
	FOXRR	KAGNE	040		RF	R	FB	1.0		002.4	AA 06600	
	NODME	NODME	010		IF		FB				AT 09000	AB 210
	NODME	KEIFR	020		TF		FB	1.0			AA 07200	AB 205
	NODME	KAGNE	030		RF	R	FB	1.0		002.4	AA 06600	
		KAGNE	020	FAF	IF		FB				AA 06600	
		TEENR	021		RF	R	FB	0.3		001.8	AA 06030	
		RW21	030	MAP	TF		FO	0.3			AT 05371	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HUMKU	040		TF		FB	1.0				
	WAPMA	050		RF	R	FB	1.0		006.8		
	ABQ	060		TF		FO	1.0			AA 08000	
	ABQ	070		HM	L	FO		079.0(090.0T)	007.0	AA 08000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ABQ	N350237.66	W1064858.72	N3502.628	W10648.979
	BGEYE	N350737.05	W1063901.14	N3507.618	W10639.019
	CADAT	N351320.76	W1063556.92	N3513.346	W10635.949
	CFDXF	N350220.00	W1064309.98	N3502.333	W10643.166
	CFDXG	N350518.57	W1063616.87	N3505.310	W10636.281
	CFDXH	N350509.59	W1063722.50	N3505.160	W10637.375
	CLIPS	N350844.53	W1063438.42	N3508.742	W10634.640
	FOXRR	N350400.40	W1064659.76	N3504.007	W10646.996
	HUMKU	N345938.79	W1063952.33	N3459.647	W10639.872
	KAGNE	N350537.20	W1063400.55	N3505.620	W10634.009
	KEIFR	N350732.43	W1063534.28	N3507.541	W10635.571
	NODME	N351043.64	W1064148.51	N3510.727	W10641.809
	TEENR	N350358.53	W1063438.85	N3503.976	W10634.648
	WAPMA	N350013.15	W1064701.70	N3500.219	W10647.028
	RW21	N350230.27	W1063625.46	N3502.505	W10636.424

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH

QUALITY CHECKED

CITY AND STATE	ELEVATION: 5355 THRE: 5316 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALBUQUERQUE, NM	**ALBUQUERQUE INTL SUNPORT**	**RNAV**	**RNAV (RNP) Y RWY 21, 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:

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.

RW21 05316 55

QUALITY CHECKED

CITY AND STATE	ELEVATION: 5355 THRE: 5316	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALBUQUERQUE, NM	AIRPORT NAME: ALBUQUERQUE INTL SUNPORT	RNAV	RNAV (RNP) Y RWY 21, 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	FOXRR	BGEYE	1. AAO	350457.00N/1064824.00W	6008 (2D)	500	AC30 VEB146 AT1316	8000
(RNP 1.00)			2. TERRAIN	350451.00N/1064821.00W	5807 (5800)		AS1500	7300
INTERMEDIATE: STEPDOWN	BGEYE	KEIFR	3. AAO	350809.00N/1063248.00W	5676 (2D)	500	AC30 AT994	7200
(RNP 1.00)			4. TERRAIN	350806.00N/1063245.00W	5476 (5500)		AS1500	7000
INTERMEDIATE	NODME	KEIFR	5. AAO	350842.00N/1063315.00W	5627 (2D)	500	AC30 AT1043	7200
(RNP 1.00)			6. TERRAIN	350842.00N/1063318.00W	5423 (5400)		AS1500	6900
INTERMEDIATE: STEPDOWN	KEIFR	KAGNE	7. AAO	350651.00N/1063154.00W	5712 (2D)	500	AC30 AT358	6600
(RNP 1.00)			8. TERRAIN	350651.00N/1063154.00W	5512 (5500)		AS1000	6500
INTERMEDIATE	CADAT	CLIPS	9. AAO	350921.00N/1063218.00W	5791 (2D)	500	AC30 AT1279	7600
(RNP 1.00)			10. TERRAIN	350921.00N/1063224.00W	5587 (5600)		AS1500	7100
INTERMEDIATE: STEPDOWN	CLIPS	KAGNE	9. AAO	350921.00N/1063218.00W	5791 (2D)	500	AC30	6400
(RNP 1.00)			11. TERRAIN	350906.00N/1063215.00W	5587 (5600)		AS1000	6600
FINAL: RNP 0.30	KAGNE	TEENR (FROP)				ASC		6030
FINAL: RNP 0.30	TEENR	RW21	12. TANK (35-000168)	350317.00N/1063558.00W	5466 (1B)	20.42:1	AC10 MA11	5758/442
MISSED APPROACH	*DA*	*RW21*	12. TANK (35-000168)	350317.00N/1063558.00W	5466 (1B)	ASC	AC10	
(RNP 0.30-1.00)		*(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: **RW21**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (35-000303)	026/ 12.9	10816 (5E)	12000					

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ALBUQUERQUE, NM	ELEVATION: 5355 AIRPORT NAME: ALBUQUERQUE INTL SUNPORT	RNAV	RNAV (RNP) Y RWY 21, ORIG	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZAB ARTCC ABQ TOWER	[ ] NWS [ ] FAA [ ] A/C OTHER: ASOS	SOURCE: KABQ DISTANCE: HOURS REMOTE OPERATION: 24
SATISFACTORY ON:		
[X] VHF [X] UHF [ ] HF	LOCATION: KABQ	ADJUSTMENT: 0

4. MONITOR STATUS

PRIMARY NAVAID:

MONITOR POINT:

HRS OPTN: CAT 1

HRS OPTN: CAT 3

5. APPROACH & RUNWAY LIGHTING

	ALS
	(S) SALS
X	MALSR 08, 03
X	HIRL 21, 08, 03, 26
X	MIRL 17, 12, 30, 35
X	REIL 17, 21, 30, 35, 03, 26
X	TDZ 08, 03
X	C/L 21, 08, 03, 26
X	OTHER (SPECIFY) VASI-6L 08 PAPI-4L 21, 30, 03, 26 VASI-4L 17, 35

6. RUNWAY MARKINGS

BASIC BSC-G 12, 30

ALL WEATHER PIR-G 21, 08, 03, 26

INSTRUMENT NPI-G 17, 35

7. RUNWAY VISUAL RANGE

APPROACH 08, 03

MIDFIELD

ROLL OUT

8. GLIDE PATH

GP ANGLE: 3.00

DISTANCE FROM RWY:

ELEV RWY THRESHOLD: 5316.1

ELEV GP ANTENNA:

THRESHOLD CROSSING HEIGHT: 55.0

9. FINAL APPROACH COURSE AIMING

[X] RUNWAY THRESHOLD FT. FROM THRESHOLD

[X] ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: SCOTT M. CORY

DATE: 04/19/2012

TITLE: AERONAUTICAL INFORMATION SPECIALIST

OFFICE: AJV-353

PART C - REMARKS:

MAX SPEED FOXRR TO BGEYE - 210 KIAS.

MAX SPEED NODME TO KEIFR - 210 KIAS.

MAX SPEED CADAT TO CLIPS - 210 KIAS.

MAX SPEED BGEYE TO KEIFR - 205 KIAS.

MAX SPEED KEIFR TO KAGNE - 205 KIAS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BACKUP ALTIMETER NOT PUBLISHED DUE TO REDUNDANT WEATHER SOURCES AT AIRPORT.

3. KABQ ASOS ON SERVICE-A.

5. VGSI DATA: PAPI-4L DOES EXIST FOR RWY 21 BUT ADDITIONAL DATA IS UNAVAILABLE PER FPT/AIRPORT MANAGER; CHARTED NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

SEE ATTACHED AIRSPACE LETTER.

AUTHORIZATION REQUIRED (AR). FAAO 8260.52 CRITERIA USED; IPDS USED FOR PROCEDURE EVALUATION.

BARO-VNAV NA BELOW -12C (11F) OR ABOVE 47C (116F). DESCENT RATE: STANDARD TEMP 1029 HIGH TEMP 1201 HIGH TEMPERATURE LIMIT AND DESCENT VALUES DERIVED FROM AFS-400 CALCULATOR.

ISA DEVIATION USED: -16.40C (2.48F)

AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010); ACT: -12C.

5317 MSL SIGN (KABQT0004) 350229.46N/1063624.47W PENETRATES RNP VISUAL OIS BY 3.90'; OBSTACLE CHARTED IAW FAAO 8260.52 PARA 3.6.

POFZ PENETRATIONS:
5318 SIGN (KABQT0001) (20/3) 350233.48N/1063626.84W (4.90)
5317 SIGN (KABQT0004) (20/3) 350229.46N/1063624.47W (3.90)
DUE TO POFZ PENETRATIONS, PROCEDURE LIMITED TO 250' HATH AND 3/4 SM VIS.

PROCEDURE ENTRY TRANSITIONS ESTABLISHED PER AIR TRAFFIC/LEAD CARRIER REQUEST: FOXRR TRANSITION TIES TO KRKEE (RNAV) STAR; NODME TRANSITION TIES TO LOWBO (RNAV) STAR; CADAT TRANSITION TIES TO SNDIA (RNAV) STAR.

205 KIAS MAX USED IN INTERMEDIATE RF SEGMENTS (BGEYE-KEIFR, KEIFR-KAGNE) PER FPT/LEAD CARRIER REQUEST TO REDUCE TURN RADIUS AND MAINTAIN LESS THAN 25 DEGREE BANK ANGLE IAW AFS MEMO DATED 10/3/2011.

100' VEGETATION USED EXCEPT 50' VEGETATION APPLIED WITHIN CLOSE PROXIMITY OF AIRPORT PER MAP/SATELLITE IMAGE STUDY AND EXISTING PROCEDURES.

VEB ROC (RNP 0.30 HIGHER VALUE) APPLIED.

VEB DATA: SEE ATTACHED SPREADSHEETS.

CONT.

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
MISSED APPROACH	*RW21*	*HUMKU*				*ASC*		
(RNP 0.30-1.00)		*(40:1)*						
MISSED APPROACH	*HUMKU*	*WAPMA*				*ASC*		
(RNP 1.00)		*(40:1)*						
MISSED APPROACH	*WAPMA*	*ABQ VORTAC*				*ASC*		
(RNP 1.00)		*(40:1)*						
MISSED APPROACH	*DA*	*ABQ VORTAC*				*ASC*		*8000*
(RNP 1.00)		*LEVEL SURFACE*	13. AAO	350221.00N/1065139.00W	6040 (2D)	1000	AC30	7100
ELEV:	5440	*AIRSPACE*	14. TERRAIN	350221.00N/1065139.00W	5840 (5800)		AS1500	7300

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

QUALITY 1 CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ALBUQUERQUE, NM	**ELEVATION: 5355** AIRPORT NAME: ALBUQUERQUE INTL SUNPORT	RNAV	RNAV (RNP) Y RWY 21, ORIG	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	[ ] NWS OTHER:	SOURCE:
	[ ] FAA	DISTANCE:
	[ ] A/C	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:

CONTINUED.

MISSED APPROACH: FAAO 8260.52 PARA 4.2 (STANDARD RNP MA); IPDS USED FOR EVALUATION.

RF SEGMENT RADIUS/BANK ANGLE COMPUTATIONS:

SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA
BGEYE-KEIFR	8000	205	237.5	2645.1	42@	2.80	22.13
KEIFR-KAGNE	7200	205	234.6	1845.1	30&	2.80	20.01
KAGNE-TEENR	6600	165	187.0	1245.1	30&	1.89	19.96
HUMKU-WAPMA	8000	265	307.0	2645.1	42@	3.81	24.98

@VKTW OBTAINED FROM 99% HISTORICAL WIND DATA (MITRE).
&VKTW OBTAINED IAW AFS MEMO DATED 10/3/2011.

RADIO FIX AND HOLDING DATA RECORD

NAME: ALBUQUERQUE VORTAC **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350237.66N/1064858.72W **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	ALBUQUERQUE	ABQ	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V68 10000 SOUTHEAST BOUND
MCA V190 11500 NORTHEAST BOUND
MCA V12 10700 EASTBOUND

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	W	ABQ	VORTAC	257.00	077.00	L	1-1 1/2		8000	29000	8	22
2	W		WP	259.00	079.00	L		7	8000	14000	9	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	350259.50N/1071124.70W	6900	6A
1	230	AAO	350445.00N/1070833.00W	6503	4E
1	310	AAO	350259.50N/1071124.70W	6900	6A
2	230	AAO	350418.00N/1070845.00W	6644	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID INBOUND/OUTBOUND TRAFFIC
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING NA R-360 CW TO R-110. UNPLANNED HOLDING NA BELOW 10000 R-167 CW TO R-359.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 3	KABQ	ALBUQUERQUE	NM (US)
1	TAKEOFF MINIMUMS	KABQ	ALBUQUERQUE	NM (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHEZZ (RNAV)			KPHX	PHOENIX	AZ (US)
DP	RIMMM (RNAV)			KPHX	PHOENIX	AZ (US)
DP	ST. JOHNS			KPHX	PHOENIX	AZ (US)
DP	SCOTTSDALE			KSDL	SCOTTSDALE	AZ (US)
DP	ALBUQUERQUE		1	KABQ	ALBUQUERQUE	NM (US)
DP	LARGO		1	KABQ	ALBUQUERQUE	NM (US)
DP	TAKEOFF MINIMUMS		1	KABQ	ALBUQUERQUE	NM (US)
DP	ZIASE			KSAF	SANTA FE	NM (US)
EN ROUTE	J13					(US)
EN ROUTE	J15					(US)
EN ROUTE	J18					(US)
EN ROUTE	J57					(US)
EN ROUTE	J6					(US)
EN ROUTE	J72					(US)
EN ROUTE	J78					(US)
EN ROUTE	V12					(US)
EN ROUTE	V187					(US)
EN ROUTE	V190					(US)
EN ROUTE	V234					(US)
EN ROUTE	V263					(US)
EN ROUTE	V291					(US)
EN ROUTE	V60					(US)
EN ROUTE	V611					(US)
EN ROUTE	V68					(US)
IAP	HI TACAN RWY 8		1	KABQ	ALBUQUERQUE	NM (US)
IAP	HI-ILS OR LOC RWY 8			KABQ	ALBUQUERQUE	NM (US)
IAP	ILS OR LOC RWY 3		1	KABQ	ALBUQUERQUE	NM (US)
IAP	ILS OR LOC RWY 8		1	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 17		2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 35		2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) Y RWY 3			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) Y RWY 8			KABQ	ALBUQUERQUE	NM (US)

IAP	RNAV (RNP) Y RWY 21	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 26	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 21	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 26	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 3	2	KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 8	2	KABQ	ALBUQUERQUE	NM (US)
IAP	VOR OR TACAN RWY 8	1	KABQ	ALBUQUERQUE	NM (US)
IAP	ILS RWY 22		KAEG	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 22		KAEG	ALBUQUERQUE	NM (US)
STAR	CURLY		KABQ	ALBUQUERQUE	NM (US)
STAR	FRIHO		KABQ	ALBUQUERQUE	NM (US)
STAR	LAVAN		KABQ	ALBUQUERQUE	NM (US)
STAR	MIERA		KABQ	ALBUQUERQUE	NM (US)
STAR	CURLY		KAEG	ALBUQUERQUE	NM (US)
STAR	FRIHO		KAEG	ALBUQUERQUE	NM (US)
STAR	LAVAN		KAEG	ALBUQUERQUE	NM (US)
STAR	MIERA		KAEG	ALBUQUERQUE	NM (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:** 10/20/2011

REASON FOR REVISION:
DELETED PAT 3 (NOT USED)
ADDED REASON FOR PAT 2 NON STANDARD HOLDING
UPDATED PRECIPITOUS TERRAIN EVAL REMARK
DELETED CLIMB-IN-HOLD REMARK
MOVE UNPLANNED HOLDING REMARK TO HOLDING RESTRICTIONS
UPDATED FIX USE
LOWERED PAT 1 MAX TEMPLATE FROM 25 TO 22

DEVELOPED BY: **DATE:** 04/05/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (DANA MITCHELL)

APPROVED BY: **DATE:** 08/08/2011 **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: BGEYE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350737.05N/1063901.14W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CADAT **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 351320.76N/1063556.92W **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) RWY 17			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 26			KABQ	ALBUQUERQUE	NM (US)
STAR	SNDIA (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
DELETED FAC 1.
REMOVED REMARK.
ADDED STAR TO REQUIRED CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFDXF **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350220.00N/1064309.98W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 21			KABQ	ALBUQUERQUE	NM (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/11/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CFDXG **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350518.57N/1063616.87W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFDXH **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350509.59N/1063722.50W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CLIPS **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350844.53N/1063438.42W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: FOXRR **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350400.40N/1064659.76W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
STAR	KRKEE (RNAV)			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HUMKU **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 345938.79N/1063952.33W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/11/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

QUALITY

RADIO FIX AND HOLDING DATA RECORD

NAME: KAGNE **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350537.20N/1063400.55W **TYPE:** WP

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

REMARKS:
PFAF LOCATION ESTABLISHED WITH 8260.54A FORMULA 2-16B.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KEIFR **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350732.43N/1063534.28W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: NODME **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 351043.64N/1064148.51W **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 FAC NM	FAC FEET	MRA	MAA
1	ALBUQUERQUE	ABQ	VORTAC	H	023.00	036.00	10.00	10.00		9000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V611	1				(US)
IAP	ILS OR LOC RWY 3	1		KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Y RWY 26			KABQ	ALBUQUERQUE	NM (US)
STAR	LOWBO (RNAV)			KABQ	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED FAC 1 DIST FROM FAC (NM).
UPDATED FAC 1 MRA FROM 8000 TO 9000.
ADDED STAR TO REQUIRED CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/12/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TEENR **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350358.53N/1063438.85W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/11/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAPMA **STATE:** NM **COUNTRY:** US

LATITUDE/LONGITUDE: 350013.15N/1064701.70W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 21			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (RNP) Z RWY 21			KABQ	ALBUQUERQUE	NM (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/11/2012 **OFFICE:** AJV-353 **NAME:** SCOTT CORY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAB
ATC FACILITY: ABQ ATCT
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **ALBUQUERQUE** STATE: **NM**

AIRPORT NAME: **ALBUQUERQUE INTL SUNPORT** ID: **KABQ**

PROCEDURE: **RNAV (RNP) Y RWY 21** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(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	**3.23**
(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	**SEE REMARKS**
4. High Terrain in	**FINAL**	segment containing 1000' point	**5369**
5. Distance from	**THLD**	to 1500' point	**5.43**
(If 1500' point in PT maneuvering area or holding pattern note in remarks)			
6. Width of	**INTERMEDIATE**	segment at 1500' point	**4.00**
7. True Course of	**INTERMEDIATE**	segment containing 1500' point	**170.57***
8. High Terrain in	**INTERMEDIATE**	segment containing 1500' point	**5587**

9. Threshold Coordinates (if straight-in) ... **350230.27N** / **1063625.46W**

10. ARP Coordinates ..... **350224.70N** / **1063633.10W**

11. Runway Approach End and distance furthest from ARP ..... RWY **26**

Distance **1.67** NM

12. FAF Coordinates ..... **350537.20N** / **1063400.55W**

REMARKS: Approach/Drawing attached.

3. 1000 FT POINT LOCATED IN RF FINAL SEGMENT (KAGNE-TEENR) - SEE ATTACHED DRAWING

***1500' POINT LOCATED/DOCUMENTED IN TF INTERMEDIATE SEGMENT (CLIPS-KAGNE); RF INTERMEDIATE SEGMENT**

(KEIFR-KAGNE) ALSO CONTAINS 1500' POINT BUT IS FULLY CONTAINED WITHIN STRAIGHT INTERMEDIATE SEGMENT AREA.

Do not remove from package.

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	6600
LTP Elevation:	5316.1
Glidepath Angle:	3
TCH:	55
RNP Value:	0.30
Δ ISA:	-16.4
Straight In Segment	
(*Wingspan =<262*) LTP to Origin:	**3,889.45'**
(*Wingspan =<136*) LTP to Origin:	**3,685.20'**
OCS Slope Ratio:	**20.42 : 1**
RF Turn Segment | Bank angle:	**19.96°**
(*Wingspan =<262*) LTP to Origin:	**4,292.20'**
(*Wingspan =<136*) LTP to Origin:	**3,852.95'**
OCS Slope Ratio:	**20.42 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	6600	
LTP Elevation:	5316.1	
ACT:	-12.00°C	
Min Glidepath Angle	2.91°	
NA Below	-12.00°C	10.40°F
NA Above	37.61°C	99.70°F

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	5,316.10
TCH (ft)	55.00
OCS Slope	20.42
OCS Origin Distance (ft) *(measured along-track from LTP)*	4,292.20
Obstacle Distance (ft) *(measured along-track from LTP)*	43,973.31
VEB ROC *(at obstacle)*	**425**
Glidepath MSL altitude at Obstacle	7,721.98
OCS MSL altitude at Obstacle	7,297.08

CLIPS → KAGNE

↓

CADAT → CLIPS

Do not remove from package.

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	0.00
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	000° 00' 00.00"
PFAF Longitude:	000° 00' 00.00"

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	6600
LTP Elevation:	5316.1
Glidepath Angle:	3
TCH:	55
RNP Value:	0.30
Δ ISA:	-16.4
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	3,889.45'
(*Wingspan =<136*) **LTP to Origin:**	3,685.20'
OCS Slope Ratio:	20.42 : 1
RF Turn Segment | Bank angle:	19.96°
(*Wingspan =<262*) **LTP to Origin:**	4,292.20'
(*Wingspan =<136*) **LTP to Origin:**	3,852.95'
OCS Slope Ratio:	20.42 : 1

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	6600	
LTP Elevation:	5316.1	
ACT:	-12.00°C	
Min Glidepath Angle	2.91°	
NA Below	-12.00°C	10.40°F
NA Above	37.61°C	99.70°F

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	5,316.10
TCH (ft)	55.00
OCS Slope	20.42
OCS Origin Distance (ft) *(measured along-track from LTP)*	4,292.20
Obstacle Distance (ft) *(measured along-track from LTP)*	26,838.67
VEB ROC *(at obstacle)*	**362**
Glidepath MSL altitude at Obstacle	6,794.92
OCS MSL altitude at Obstacle	6,432.42

KEIFR - KAGNE

(from FOXRR + NODME)

Do not remove from package.

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	6600
LTP Elevation:	5316.1
Glidepath Angle:	3
TCH:	55
RNP Value:	0.30
Δ ISA:	-16.4
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	**3,889.45'**
(*Wingspan =<136*) **LTP to Origin:**	**3,685.20'**
OCS Slope Ratio:	**20.42 : 1**
RF Turn Segment | Bank angle:	**19.96°**
(*Wingspan =<262*) **LTP to Origin:**	**4,292.20'**
(*Wingspan =<136*) **LTP to Origin:**	**3,852.95'**
OCS Slope Ratio:	**20.42 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	6600	
LTP Elevation:	5316.1	
ACT:	-12.00°C	
Min Glidepath Angle	**2.91°**	
NA Below	**-12.00°C**	**10.40°F**
NA Above	**37.61°C**	**99.70°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	5,316.10
TCH (ft)	55.00
OCS Slope	20.42
OCS Origin Distance (ft) *(measured along-track from LTP)*	4,292.20
Obstacle Distance (ft) *(measured along-track from LTP)*	32,124.89
VEB ROC *(at obstacle)*	**382**
Glidepath MSL altitude at Obstacle	7,079.42
OCS MSL altitude at Obstacle	6,697.67

BGEYE-KEIFR

Do not remove from package.

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	0.00
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	000° 00' 00.00"
PFAF Longitude:	000° 00' 00.00"

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	6600
LTP Elevation:	5316.1
Glidepath Angle:	3
TCH:	55
RNP Value:	0.30
Δ ISA:	-16.4
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	3,889.45'
(*Wingspan =<136*) **LTP to Origin:**	3,685.20'
OCS Slope Ratio:	20.42 : 1
RF Turn Segment | Bank angle:	19.96°
(*Wingspan =<262*) **LTP to Origin:**	4,292.20'
(*Wingspan =<136*) **LTP to Origin:**	3,852.95'
OCS Slope Ratio:	20.42 : 1

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	6600	
LTP Elevation:	5316.1	
ACT:	-12.00°C	
Min Glidepath Angle	2.91°	
NA Below	-12.00°C	10.40°F
NA Above	37.61°C	99.70°F

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	5,316.10
TCH (ft)	55.00
OCS Slope	20.42
OCS Origin Distance (ft) *(measured along-track from LTP)*	4,292.20
Obstacle Distance (ft) *(measured along-track from LTP)*	104,795.23
VEB ROC *(at obstacle)*	**646**
Glidepath MSL altitude at Obstacle	11,126.34
OCS MSL altitude at Obstacle	10,479.93

FOXRR - BGEYE

Do not remove from package.

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	6600
LTP Elevation:	5316.1
Glidepath Angle:	3
TCH:	55
RNP Value:	0.30
Δ ISA:	-16.4
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	3,889.45'
(*Wingspan =<136*) **LTP to Origin:**	3,685.20'
OCS Slope Ratio:	20.42 : 1
RF Turn Segment | Bank angle:	19.96°
(*Wingspan =<262*) **LTP to Origin:**	4,292.20'
(*Wingspan =<136*) **LTP to Origin:**	3,852.95'
OCS Slope Ratio:	20.42 : 1

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	6600	
LTP Elevation:	5316.1	
ACT:	-12.00°C	
Min Glidepath Angle	2.91°	
NA Below	-12.00°C	10.40°F
NA Above	37.61°C	99.70°F

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	5,316.10
TCH (ft)	55.00
OCS Slope	20.42
OCS Origin Distance (ft) *(measured along-track from LTP)*	4,292.20
Obstacle Distance (ft) *(measured along-track from LTP)*	31,881.85
VEB ROC *(at obstacle)*	**381**
Glidepath MSL altitude at Obstacle	7,066.31
OCS MSL altitude at Obstacle	6,685.45

NODME - KEIFR