Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/06/2010	Task #: 2009082815410007003	Request #: 20090828154100
Procedure: RNAV (RNP) Z RWY 3 ORIG		Airport ID: KCHS	**Airport:** CHARLESTON AFB/INTL		Reimbursable #:
City: CHARLESTON	**ST:** SC	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID:	**Fac. Type:** RNP		**Specialist:** CHRISTOPHER COX		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/17/2012	05/02/2012	MARLON ROBINSON	
QA:	05/02/2012	05/02/2012	SCOTT BEARD	
Liaison:	05/02/2012		Alfonso	

21

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

Pkg 3 of 5

CHARLESTON, SC CHARLESTON AFB/INTL (KCHS) RNAV (RNP) Z RWY 3, ORIG (RNP) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BAMDE, REV 3; CFFGB, ORIG; CFFGC, ORIG; HODIL, ORIG; JEKDA, ORIG; RECHY, REV 1; RORDY, ORIG; STNNS, REV 1; UZADY, ORIG; ZUNSU, ORIG; (INFO ONLY) AALEX, ORIG; DDENA, ORIG; FEPID, REV 2.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

CHARLESTON, SOUTH CAROLINA AL-76 (FAA) FIG

RNAV (RNP) Z RWY 3

CHARLESTON AFB/INTL (CHS)

APP CRS	Rwy Idg	7000
031°	THRE	21
	Apt Elev	46

For uncompensated Baro-VNAV systems, Procedure NA below -5°C (23°F) or above 48(118°) GPS Required.

MISSED APPROACH; Climb to 3000 on track 031° to BAMDE and hold.

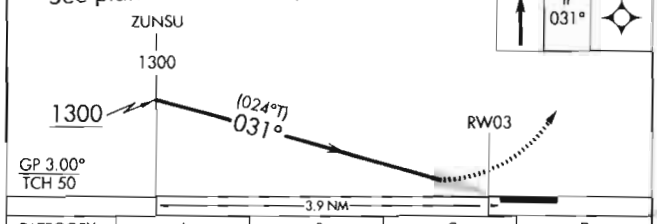
ATIS	CHARLESTON APP CON	CHARLESTON TOWER	GND CON	CLNC DEL
124.75	120.7 306.925	126.0 239.0	121.9 348.6	127.325 291.65

AALEX: 3303.213/8020.447
BAMDE: 3304.959/7956.338
CFFGB: 3248.594/8002.090
CFFGC: 3250.517/8007.116
DDENA: 3241.147/8020.648
FEPID: 3242.320/8008.514
HODIL: 3245.752/8006.675
JEKDA: 3247.354n-07959.719w
RECHY: 3251.951/8014.480
RORDY: 3248.611/8008.649
STNNS: 3249.143/7958.408
UZADY: 3246.313n-08002.781w
ZUNSU: 3249.567/8004.629
RW03: 3253.089/8002.737

PROTOTYPE: NOT FOR NAVIGATION

(IAF) AALEX 5000 (RF REQUIRED)
(IF) RECHY 4000
(FAF) ZUNSU
(IAF) STNNS 4000 (RF REQ)
(IF) JEKDA Max 210 KIAS
RORDY Max 210 KIAS
HODIL
UZADY
(IF) FEPID
(IAF) DDENA 5000
BAMDE
RW03
MSA RW03 25 NM 3100
4 NM
ELEV 46
THRE 21

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.20 DA	315-1		294 (300-1)	
RNP 0.30 DA	474-1½		453 (500-1½)	

AUTHORIZATION REQUIRED

TDZ/CL Rwy 15
REIL Rwys 3 and 21
HIRL Rwys 3-21 and 15-33

CHARLESTON, SOUTH CAROLINA
Orig FIG

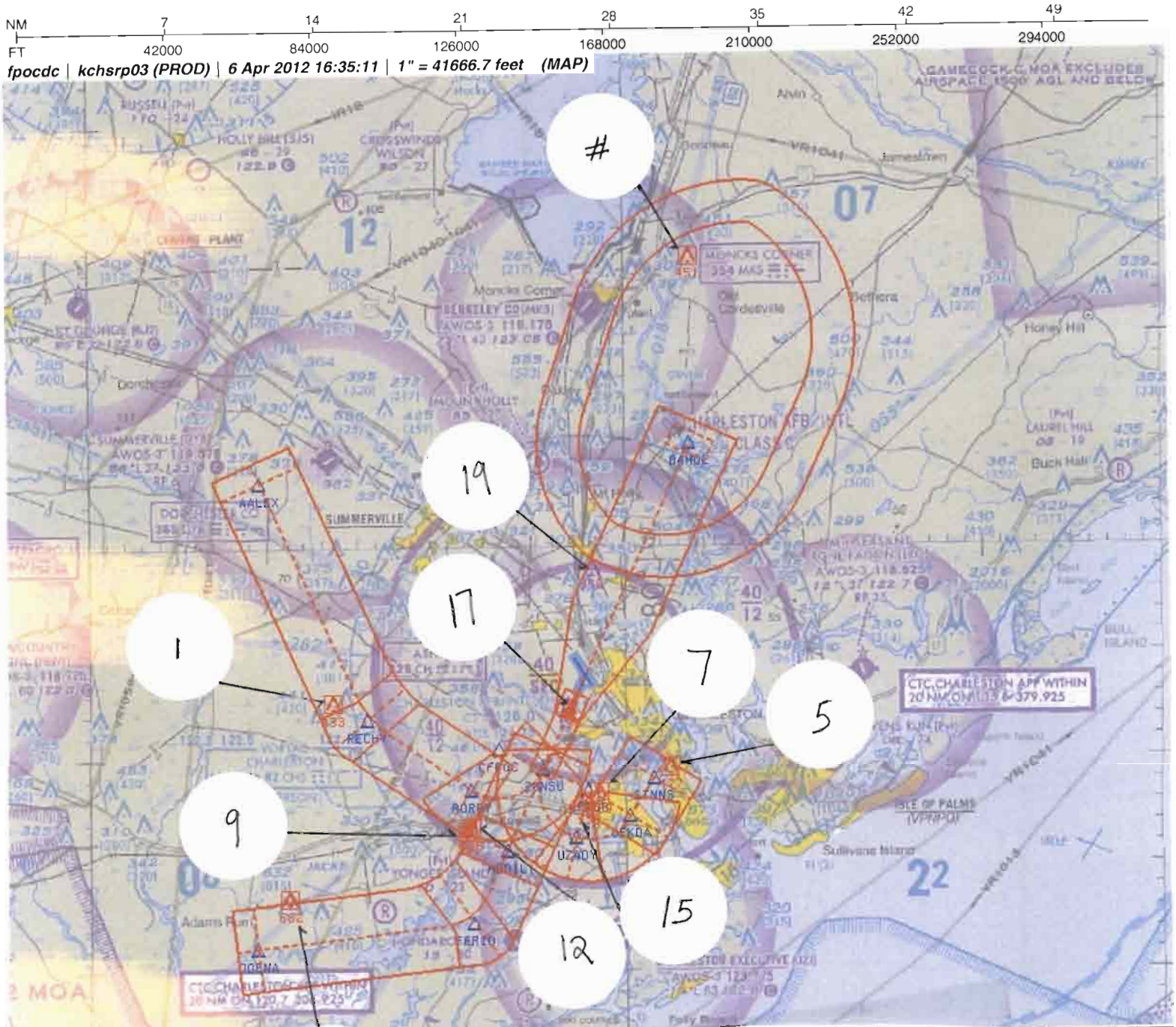
32°54'N-80°02'W

CHARLESTON AFB/INTL (CHS)

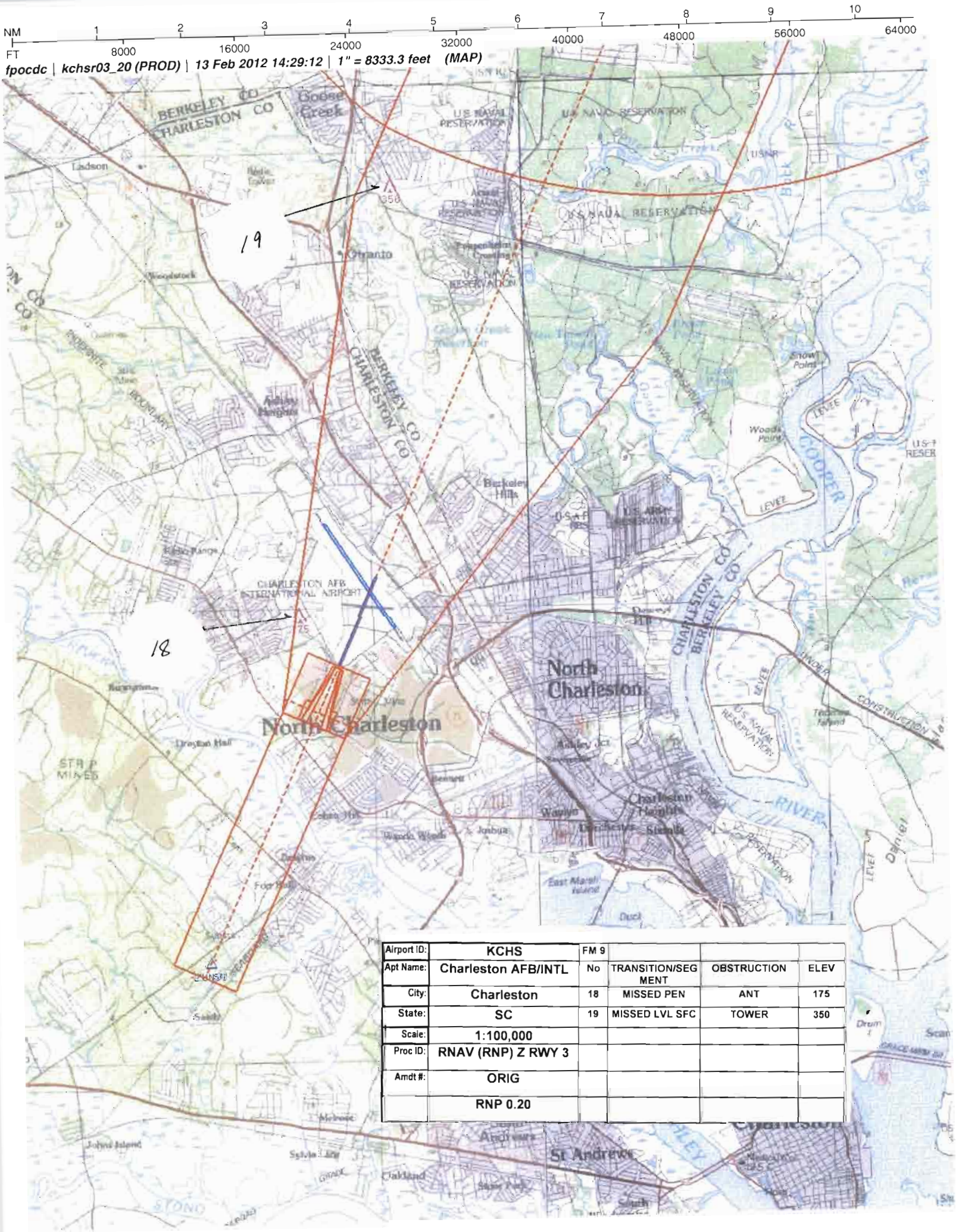
RNAV (RNP) Z RWY 3

AUTOMATED AL-76 RNAV (RNP) Z RWY 3

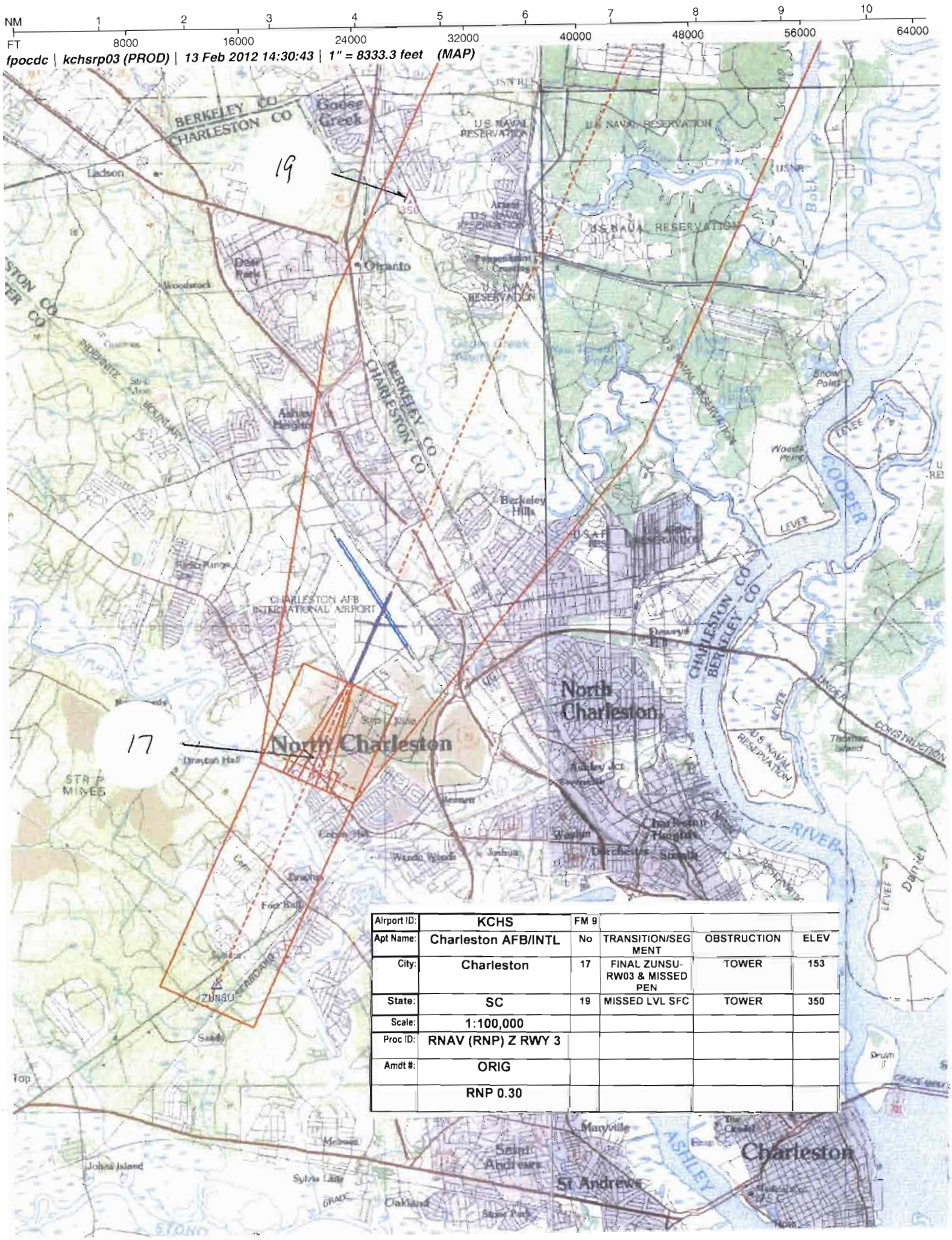
SE-2
03/06/2012
COMPILER: GJ
REVIEWER:
DBL CHKR:
EFF DATE: FIG



Airport ID:	KCHS	FM 9			
Apt Name:	Charleston AFB/INTL	No	TRANSITION/SEGMENT	OBSTRUCTION	ELEV
City:	Charleston	1	INIT AALEX-RECHY	TOWER	413
State:	SC	1	INT RECHY-RORDY	TOWER	413
Scale:	1:500,000	12	INT SD RORDY-ZUNSU	AAO	230
Proc ID:	RNAV (RNP) Z RWY 3	3	INIT DDENA-FEPID	TOWER	632
Amdt #:	ORIG	9	INT FEPID-HODIL	AAO	233
	Obs depicted with accuracy except 16,18,#	9	INT SD HODIL-ZUNSU	AAO	233
	RNP 0.30	5	INIT STNNS-JEKDA	TOWER	427
		7	INT JEDKA-UZADY	TOWER	419
		15	INT SD UZADY-ZUNSU	TOWER	408
		17	FINAL ZUNSU-RW03 & MISSED PEN	TOWER	153
		19	MISSED LVL SFC	TOWER	350
		#	MISSED HOLD	TOWER	451



Airport ID:	KCHS	FM 9			
Apt Name:	Charleston AFB/INTL	No	TRANSITION/SEGMENT	OBSTRUCTION	ELEV
City:	Charleston	18	MISSED PEN	ANT	175
State:	SC	19	MISSED LVL SFC	TOWER	350
Scale:	1:100,000				
Proc ID:	RNAV (RNP) Z RWY 3				
Amdt #:	ORIG				
	RNP 0.20				



Airport ID:	KCHS	FM 9			
Apt Name:	Charleston AFB/INTL	No	TRANSITION/SEGMENT	OBSTRUCTION	ELEV
City:	Charleston	17	FINAL ZUNSU-RW03 & MISSED PEN	TOWER	153
State:	SC	19	MISSED LVL SFC	TOWER	350
Scale:	1:100,000				
Proc ID:	RNAV (RNP) Z RWY 3				
Amdt #:	ORIG				
	RNP 0.30				

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
AALEX (IAF)	RECHY (TF) (FB) (RNP 1.00)	162.91 / 12.31	4000
DDENA (IAF)	FEPID (TF) (FB) (RNP 1.00)	090.42 / 10.31	3000
STNNS (IAF)	JEKDA (TF) (FB) (RNP 1.00)	218.77 / 2.10	3200
JEKDA (IF)	UZADY (RF) (FB) (RNP 1.00)	(2.35 NM RADIUS CW (CFFGB))/2.98	2500
FEPID (IF)	HODIL (TF) (FB) (RNP 1.00)	031.35 / 3.76	2100
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 3000 ON TRACK 031.40 TO BAMDE AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 211.46 INBOUND.
CHART FAS OBST: 153 TOWER 325207N/0800310W
DISTANCE TO THLD FROM 294 HATH: 0.77 NM.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 70.6 MSL (DO NOT CHART)
CHART MANDATORY 4000 AT RECHY.
CHART 4000 AT STNNS.
CHART 5000 AT DDENA AND AALEX.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT ZUNSU
3. FAC: 031.38 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: ZUNSU 1300
5. DIST TO THLD FROM OM: 3.86 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1300 GS ALT AT: ZUNSU 1300 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 50.0# 34:1 IS CLEAR
8. MSA FROM: RW03 3100

MAG VAR: 7W EPOCH YEAR: 2010

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 0.20 DA	315	1	294	315	1	294	315	1	294	315	1	294			
RNP 0.30 DA	474	1 1/2	453	474	1 1/2	453	474	1 1/2	453	474	1 1/2	453			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -5C (23F) OR ABOVE 48C (118F).
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE AT JEKDA : MAX 210 KIAS.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 46 THRE: 21	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CHARLESTON, SC	AIRPORT NAME: CHARLESTON AFB/INTL	RNAV	RNAV (RNP) Z RWY 3, 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] **ZJX, CHS APP CON, APRT MGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:
	FIOG	

DEVELOPED BY

NAME:	FIFO	DATE:
CHRISTOPHER COX	**AJV-352**	**02/04/2012**

APPROVED BY

NAME:		FIFO	DATE:
DARRYEL ADAMS	**MANAGER**	**AJV-352**	

CHANGES:

ORIGINAL

REASONS:

QUALITY 4 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
RECHY (IF)	RORDY (TF) (FB) (RNP 1.00)	131.13 / 5.94	2400
RORDY	ZUNSU (RF) (FB) (RNP 1.00)	(2.30 NM RADIUS CCW (CFFGC))/4.01	1300
HODIL	ZUNSU (TF) (FB) (RNP 1.00)	031.36 / 4.18	1300
UZADY	ZUNSU (RF) (FB) (RNP 1.00)	(2.35 NM RADIUS CW (CFFGB))/4.10	1300
ZUNSU (FAF)	RW03 (MAP) (TF) (FO)	031.38 / 3.86	
RWY03 (MAP)	BAMDE (TF) (FO) (RNP 1.00)	031.40 / 13.01	3000

NOTES, (CONT.):
CHART PLANVIEW NOTE AT RORDY : MAX 210 KIAS.
CHART PLANVIEW NOTE ADJACENT TO STNNS IAF: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO AALEX IAF: RF REQUIRED.

CITY AND STATE	ELEVATION: 46 THRE: 21	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CHARLESTON, SC	AIRPORT NAME: CHARLESTON AFB/INTL	RNAV	RNAV (RNP) Z RWY 3, 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:

QUALITY CHECKED

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   AALEX K70    W     N33031277W080202677                      W0074     NAR           AALEX
        SUSAEAENRT   BAMDE K70    W     N33045754W079562025                      W0077     NAR           BAMDE
        SUSAEAENRT   CFFGB K70    W     N32483563W080020535                      W0075     NAR           CNF(CFFGB)
        SUSAEAENRT   CFFGC K70    W     N32503102W080070692                      W0075     NAR           CNF(CFFGC)
        SUSAEAENRT   DDENA K70    W     N32410880W080203888                      W0073     NAR           DDENA
        SUSAEAENRT   FEPID K70    W     N32421918W080083079                      W0074     NAR           FEPID
        SUSAEAENRT   HODIL K70    W     N32454511W080064049                      W0075     NAR           HODIL
        SUSAEAENRT   JEKDA K70    W     N32472126W079594312                      W0076     NAR           JEKDA
        SUSAEAENRT   RECHY K70    W     N32515702W080142880                      W0074     NAR           RECHY
        SUSAEAENRT   RORDY K70    W     N32483662W080083891                      W0075     NAR           RORDY
        SUSAEAENRT   STNNS K70    W     N32490858W079582444                      W0076     NAR           STNNS
        SUSAEAENRT   UZADY K70    W     N32461877W080024688                      W0075     NAR           UZADY
        SUSAEAENRT   ZUNSU K70    W     N32493397W080043773                      W0075     NAR           ZUNSU

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHSK7ACHS     0     090YHN32535510W080022590W007000046        1800018000C    MNAR    CHARLESTON AFB/INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHSK7FH03-Z AAALEX 010AALEXK7EA0E  A    IF                                  + 05000     18000                A FS
        SUSAP KCHSK7FH03-Z AAALEX 020RECHYK7EA0E  B 010TF                                    04000                          A FS
        SUSAP KCHSK7FH03-Z AAALEX 030RORDYK7EA0E    010TF                                  + 02400         210              A-FS
        SUSAP KCHSK7FH03-Z AAALEX 040ZUNSUK7EA0EE  L010RF       0023001311    03140040    + 01300                CFFGC K7EAA FS
        SUSAP KCHSK7FH03-Z ADDENA 010DDENAK7EA0E  A    IF                                  + 05000     18000                A FS
        SUSAP KCHSK7FH03-Z ADDENA 020FEPIDK7EA0E  B 010TF                                  + 03000                          A FS
        SUSAP KCHSK7FH03-Z ADDENA 030HODILK7EA0E    010TF                                  + 02100                          A FS
        SUSAP KCHSK7FH03-Z ADDENA 040ZUNSUK7EA0EE   010TF                                  + 01300                          A FS
        SUSAP KCHSK7FH03-Z ASTNNS 010STNNSK7EA0E  A    IF                                  + 04000     18000                A FS
        SUSAP KCHSK7FH03-Z ASTNNS 020JEKDAK7EA0E  B 010TF                                  + 03200         210              A-FS
        SUSAP KCHSK7FH03-Z ASTNNS 030UZADYK7EA0E   R010RF       0023502188    29140030    + 02500                CFFGB K7EAA FS
        SUSAP KCHSK7FH03-Z ASTNNS 040ZUNSUK7EA0EE  R010RF       0023502914    03140041    + 01300                CFFGB K7EAA FS
        SUSAP KCHSK7FH03-Z H      020ZUNSUK7EA1E  F    IF                                  + 01300     18000      RW03  K7PGA FS
        SUSAP KCHSK7FH03-Z H      020ZUNSUK7EA2W                                             A031A021                       FS
        SUSAP KCHSK7FH03-Z H      030RW03 K7PG0GY M 031TF                                    00071              -300        A FS
        SUSAP KCHSK7FH03-Z H      040BAMDEK7EA0EYM  010TF                                  + 03000                          A FS
        SUSAP KCHSK7FH03-Z H      050BAMDEK7EA0EE  R   HM                      21150040    + 03000                          A FS

                1         2         3         4         5         6         7         8         9         0         1         2
```

CITY AND STATE	ELEVATION: 46 THRE: 21	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHARLESTON, SC	AIRPORT NAME: **CHARLESTON AFB/INTL**	**RNAV**	**RNAV (RNP) Z RWY 3, 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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```
RUNWAY  1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------
        SUSAP KCHSK7GRW03    0070000314 N32530535W080024417+0300    -0026500021000050150R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------
        SUSAP KCHSK7SRW03 K7PG              0   18018003125                                                          M
```

CITY AND STATE	ELEVATION: 46 THRE: 21	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHARLESTON, SC	AIRPORT NAME: **CHARLESTON AFB/INTL**	**RNAV**	**RNAV (RNP) Z RWY 3, 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
	AALEX	AALEX	010	IAF	IF		FB				AA 05000	
	AALEX	RECHY	020		TF		FB	1.0			AT 04000	
	AALEX	RORDY	030		TF		FB	1.0			AA 02400	AB 210
	AALEX	ZUNSU	040		RF	L	FB	1.0		004.0	AA 01300	
	DDENA	DDENA	010	IAF	IF		FB				AA 05000	
	DDENA	FEPID	020		TF		FB	1.0			AA 03000	
	DDENA	HODIL	030		TF		FB	1.0			AA 02100	
	DDENA	ZUNSU	040		TF		FB	1.0			AA 01300	
	STNNS	STNNS	010	IAF	IF		FB				AA 04000	
	STNNS	JEKDA	020		TF		FB	1.0			AA 03200	AB 210
	STNNS	UZADY	030		RF	R	FB	1.0		003.0	AA 02500	
	STNNS	ZUNSU	040		RF	R	FB	1.0		004.1	AA 01300	
		ZUNSU	020	FAF	IF		FB				AA 01300	
		RW03	030	MAP	TF		FO	0.3			AT 00071	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	BAMDE	040		TF		FO	1.0			AA 03000	
	BAMDE	050		HM	R	FO		211.5(204.5T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AALEX	N330312.77	W0802026.77	N3303.213	W08020.446
	BAMDE	N330457.54	W0795620.25	N3304.959	W07956.338
	CFFGB	N324835.63	W0800205.35	N3248.594	W08002.089
	CFFGC	N325031.02	W0800706.92	N3250.517	W08007.115
	DDENA	N324108.80	W0802038.88	N3241.147	W08020.648
	FEPID	N324219.18	W0800830.79	N3242.320	W08008.513
	HODIL	N324545.11	W0800640.49	N3245.752	W08006.675
	JEKDA	N324721.26	W0795943.12	N3247.354	W07959.719
	RECHY	N325157.02	W0801428.80	N3251.950	W08014.480
	RORDY	N324836.62	W0800838.91	N3248.610	W08008.649
	STNNS	N324908.58	W0795824.44	N3249.143	W07958.407
	UZADY	N324618.77	W0800246.88	N3246.313	W08002.781
	ZUNSU	N324933.97	W0800437.73	N3249.566	W08004.629
	RW03	N325305.35	W0800244.17	N3253.089	W08002.736

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW03	00021	50

CITY AND STATE	ELEVATION: 46 THRE: 21	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHARLESTON, SC	AIRPORT NAME: **CHARLESTON AFB/INTL**	**RNAV**	**RNAV (RNP) Z RWY 3, 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.
INITIAL: (RNP 1.00)	AALEX	RECHY	1. TOWER (45-000029)	325218.00N/0801622.00W	413 (2C)	1000	AC20 AT2567	4000
			2. TERRAIN	325845.00N/0801527.00W	66 (100)		AS1500	1600
INITIAL: (RNP 1.00)	DDENA	FEPID	3. TOWER (45-000904)	324307.00N/0801849.00W	632 (5D)	1000	AC50 AT1318	3000
			4. TERRAIN	324309.00N/0802012.00W	37 (0)		AS1500	1500
INITIAL: (RNP 1.00)	STNNS	JEKDA	5. TOWER (45-001317)	324916.00N/0795726.00W	427 (2D)	1000	AC50 AT1723	3200
			6. TERRAIN	324642.00N/0795812.00W	33 (0)		AS1500	1500
INTERMEDIATE: (RNP 1.00)	JEKDA	UZADY	7. TOWER (45-000624)	324807.00N/0800125.00W	419 (5D)	500	AC50 AT1531	2500
			8. TERRAIN	324542.00N/0800000.00W	30 (0)		AS1500	1500
INTERMEDIATE: (RNP 1.00)	FEPID	HODIL	9. AAO	324615.00N/0800851.00W	233 (4E)	500	AC98 AT1269	2100
			10. TERRAIN	324627.00N/0800854.00W	33 (0)		AS1500	1500
INTERMEDIATE: (RNP 1.00)	RECHY	RORDY	1. TOWER (45-000029)	325218.00N/0801622.00W	413 (2C)	500	AC20 AT1398 VEB69	2400
			11. TERRAIN	325130.00N/0801357.00W	37 (0)		AS1500	1500
INTERMEDIATE: STEPDOWN	RORDY	ZUNSU	12. AAO	324624.00N/0800842.00W	230 (4E)	500	AC98 AT472	1300
(RNP 1.00)			13. TERRAIN	324633.00N/0800909.00W	30 (0)		AS1000	1000
2. PROCEDURE TURN								
3. MISSED APPROACH MAP:								
3. MISSED APPROACH								
3. MISSED APPROACH ELEV:								

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: **RW03**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	MSA
360-360	TWR (45-000706)	089/ 17.7	2016 (5D)	3100					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CHARLESTON, SC	ELEVATION: 46 AIRPORT NAME: CHARLESTON AFB/INTL	RNAV	RNAV (RNP) Z RWY 3, ORIG	ASO

GUIDANCE CHECKED

PART B - SUPPLEMENTAL DATA

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

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

X	ALSF-2 15
	(S) SALS
X	MALSR 33
X	HIRL 21, 33, 15, 03
	MIRL
X	REIL 21, 03
X	TDZ 15
X	C/L 33, 15
X	OTHER (SPECIFY) PAPI-4L 21, 33, 15, 03

5. APPROACH & RUNWAY LIGHTING

6. RUNWAY MARKINGS	BASIC
	ALL WEATHER PIR-G 21, 33, 15, 03
	INSTRUMENT

7. RUNWAY VISUAL RANGE	APPROACH 33, 15	
	MIDFIELD 33, 15	
	ROLL OUT 33, 15	

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 20.6
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 50.0

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

10. WAIVERS: NONE

PART D - PREPARED BY: CHRISTOPHER COX	DATE: 2/07/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

MAX SPEED RORDY TO ZUNSU - 210 KIAS.

MAX SPEED JEKDA TO UZADY - 210 KIAS.

VDP NOT ESTABLISHED - RNP PROCEDURE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BLOCK 3: ALTIMETER SETTING
SOURCE: KCHS
DISTANCE:
ASOS IS ON SERVICE-A.
BACKUP ALTIMETER SOURCE NOT REQUIRED, REDUNDANT WEATHER SERVICE AVAILABLE.

VGSI DATA: 3.00/50

SEE ATTACHED AIRSPACE LETTER.

MANDATORY ALTITUDES REQUIRED BY ATC.

AUTHORIZATION REQUIRED (AR) PER AJV-3 MEMO DATED 05/17/2011.

AVERAGE LOW TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010): 06 27F 07 26F 08 19F 09 19F 10 18F

ISA DEVIATION: -20

ACT: -5C

APPLIED MEMO DATED OCT 03, 2011: REVISED PERFORMACE BASED NAVIGATION (PBN) FLY-BY (FB)/RADIUS-TO-FIX (RF) TURN MAXIMUM BANK ANGLE LIMITS; OMNI-DIRECTIONAL TAILWIND REQUIREMENTS; AND MINIMUM INITIAL DEPARTURE LEG SEGMENT LENGTH DESIGN CRITERIA TO DDENA TRANSITION

HISTORICAL WIND DATA USED USED FOR TAILWIND VALUE:
JEKDA TO UZADY-47(47.3), UZADY TO ZINSU-47, RORDY TO ZINSU-47

8260.52 TABLE 1-3 USED FOR TURNS AT RECHY AND FEPID

RF TURN DATA

SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA
UZADY-ZUNSU	2500	210.0	220.5	2454	47.00	2.35	23.95
JEKDA-UZADY	3200	210.0	223.44	3154	47.00	2.35	24.42
RORDY-ZUNSU	2400	210.0	220.08	2354	47.00	2.30	24.34

TF TURN DATA

SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA
FEPID	3285	250	266.43	3239	52.39	4.56	18.01
RECHY	4000	250	270.00	3954	59.54	4.88	18.00

FEPID TO HODIL MIN LENGTH 2.65 BASED ON AFS LEG LENGTH CALCULATOR.

QUALITY CHECKED

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: STEPDOWN	HODIL	ZUNSU	9. AAO	324615.00N/0800851.00W	233 (4E)	500	AC 98 AT469	1300
(RNP 1.00)			14. TERRAIN	324633.00N/0800848.00W	30 (0)		AS1000	1000
INTERMEDIATE: STEPDOWN	UZADY	ZUNSU	15. TOWER (45-000870)	324736.00N/0800203.00W	408 (5D)	500	AC50 AT342	1300
(RNP 1.00)			16. TERRAIN	324957.00N/0800609.00W	23 (0)		AS1000	1000
FINAL: (RNP 0.20)	ZUNSU	RW03				ASC	MA42	315/294
FINAL: (RNP 0.30)	ZUNSU	RW03	17. TOWER (45-001679)	325207.00N/0800310.00W	153 (2C)	20.69:1	AC20 MA45	474/453
MISSED APPROACH	DA	RW03 (40:1)	18. ANT* (KCHS0086)	325337.09N/0800315.83W	175 (2C)	ASC	AC20	
(RNP 0.20-1.00)								
MISSED APPROACH	DA	RW03 (40:1)	17. TOWER (45-001679)	325207.00N/0800310.00W	153 (2C)	ASC	AC20	
(RNP 0.30-1.00)								
MISSED APPROACH	RW03	BAMDE (40:1)				ASC		
(RNP 0.20-1.00)								
MISSED APPROACH	RW03	BAMDE (40:1)				ASC		
(RNP 0.30-1.00)								
3. MISSED APPROACH MAP:	DA / DA	BAMDE				ASC		3000
			19. TOWER (45-001724)	325843.00N/0800150.00W	350 (1A)	1000	AC3	1400
ELEV:	59/168		20. TERRAIN	330000.00N/0795851.00W	50 (100)		AS1500	1600

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
CHARLESTON, SC	ELEVATION: 46 AIRPORT NAME: CHARLESTON AFB/INTL	RNAV	RNAV (RNP) Z RWY 3, ORIG	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ N W S ☐ F A A ☐ A / C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ V H F ☐ U H F ☐ H F	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: 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: BAMDE **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 330457.54N/0795620.25W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	NE		WP	031.46	211.46	R		4	3000	14000	5	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-000850)	331323.00N/0795619.00W	451	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 21		1	KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 3		1	KCHS	CHARLESTON	SC (US)
IAP	RNAV (RNP) Z RWY 21			KCHS	CHARLESTON	SC (US)
IAP	RNAV (RNP) Z RWY 3			KCHS	CHARLESTON	SC (US)
STAR	AMYLU (RNAV)			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
CHANGED PAT 1 MAX TEMPLATE FROM 13 TO 14.

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFGB **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324835.63N/0800205.35W **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 3			KCHS	CHARLESTON	SC (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFGC **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 325031.02N/0800706.92W **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 3			KCHS	CHARLESTON	SC (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HODIL **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324545.11N/0800640.49W **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 3			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JEKDA **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324721.26N/0795943.12W **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 3			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RECHY **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 325157.02N/0801428.80W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 3			KCHS	CHARLESTON	SC (US)
STAR	OSPRI (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	OSPRI (RNAV)			KJZI	CHARLESTON	SC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED IAP TO REQUIRED CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RORDY **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324836.62N/0800838.91W **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 3			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: STNNS **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324908.58N/0795824.44W **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 (RNP) Z RWY 3			KCHS	CHARLESTON	SC (US)
STAR	AMYLU (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	AMYLU (RNAV)			KJZI	CHARLESTON	SC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED IAP TO REQUIRED CHARTING.
UPDATED FIX USE.
REVISED LAT/LONG, FIX MOVED 1438' EAST.

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: UZADY **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324618.77N/0800246.88W **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 3			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUNSU **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324933.97N/0800437.73W **TYPE:** WP

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

REMARKS:
LNAV/VNAV FORMULA USED TO ESTABISH PFAF LOCATION.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 3			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: AALEX **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 330312.77N/0802026.77W **TYPE:** WP

INFO ONLY

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 33			KCHS	CHARLESTON	SC (US)
IAP	RNAV (RNP) Z RWY 3			KCHS	CHARLESTON	SC (US)
STAR	OSPRI (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	OSPRI (RNAV)			KJZI	CHARLESTON	SC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 08/25/2011

DEVELOPED BY: **DATE:** 02/26/2011 **OFFICE:** AVN-110 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 07/13/2011 **OFFICE:** AVN-110 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: DDENA **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324108.80N/0802038.88W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 15			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 21			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 3			KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 33			KCHS	CHARLESTON	SC (US)
IAP	RNAV (RNP) Z RWY 33			KCHS	CHARLESTON	SC (US)
STAR	BAGGY (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	DDENA (RNAV)			KCHS	CHARLESTON	SC (US)
STAR	BAGGY (RNAV)			KJZI	CHARLESTON	SC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 08/25/2011

DEVELOPED BY: **DATE:** 02/23/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 07/13/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: FEPID **STATE:** SC **COUNTRY:** US

LATITUDE/LONGITUDE: 324219.18N/0800830.79W **TYPE:** WP

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

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	SW		WP	211.35	031.35	R		4	3000	14000	5	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	COMMUNICATION TOWER (KJZIT0009)	323957.20N/0800309.89W	507	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 21		1	KCHS	CHARLESTON	SC (US)
IAP	RNAV (GPS) Y RWY 3		1	KCHS	CHARLESTON	SC (US)
IAP	RNAV (RNP) Z RWY 3			KCHS	CHARLESTON	SC (US)
STAR	BAGGY (RNAV)			KCHS	CHARLESTON	SC (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
UPDATED LAT LONGS: FIX MOVED .3 NM SE
REMOVED FAC 1
UPDATED FIX USE
ADDED PRECIPITOUS TERRAIN NOTE TO REMARKS
MOVED HOLDING LIMITED NOTE TO HOLD RESTRICTIONS
UPDATED MAX TEMPLATE SIZE PAT 1 FROM 13 TO 14
UPDATED PAT 1 CONTROLLING OBSTACLE
ADDED STAR TO REQUIRED CHARTING

INFO ONLY

07/06/2011: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/28/2011
1. PAT 1 LEG LENGTH DME CHANGED FROM 5 TO 4

DEVELOPED BY: **DATE:** 03/07/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** 07/08/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZJX
ATC FACILITY: CHS APP CON
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CHARLESTON** STATE: **SC**

AIRPORT NAME: **CHARLESTON AFB/INTL** ID: **KCHS**

PROCEDURE: **RNAV (RNP) Z RWY 03** 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	**2.92**
(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	**024.38**
4. High Terrain in	**FINAL**	segment containing 1000' point	**30**
5. Distance from	**THLD**	to 1500' point	**4.63**
(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	*
8. High Terrain in	**INTERMEDIATE**	segment containing 1500' point	**30**

9. Threshold Coordinates (if straight-in) ... **325305.35N** / **0800244.17W**

10. ARP Coordinates ..... **325355.10N** / **0800225.90W**

11. Runway Approach End and distance furthest from ARP ..... RWY **3**

Distance **0.94** NM

12. FAF Coordinates ..... **324933.97N** / **0800437.73W**

REMARKS: Approach/Drawing attached.

***1500 FT POINT IN RF SEG. 0.77 NM FROM PFAF. 2.30 NM RADIUS.**

RORDY-ZUNSU

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CHARLESTON** STATE: **SC**

AIRPORT NAME: **CHARLESTON AFB/INTL** ID: **KCHS**

PROCEDURE: **RNAV (RNP) Z RWY 03** 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	**2.92**
(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	**024.38**
4. High Terrain in	**FINAL**	segment containing 1000' point	**30**
5. Distance from	**THLD**	to 1500' point	**5.34**
(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	*
8. High Terrain in	**INTERMEDIATE**	segment containing 1500' point	**23**

9. Threshold Coordinates (if straight-in) ... **325305.35N** / **0800244.17W**

10. ARP Coordinates ..... **325355.10N** / **0800225.90W**

11. Runway Approach End and distance furthest from ARP ..... RWY **3**

Distance **0.94** NM

12. FAF Coordinates ..... **324933.97N** / **0800437.73W**

REMARKS: Approach/Drawing attached.

***1500 FT POINT IN RF SEG. .96 NM FROM PFAF. 2.35 NM RADIUS.**

UZADY-ZUNSU

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CHARLESTON** STATE: **SC**

AIRPORT NAME: **CHARLESTON AFB/INTL** ID: **KCHS**

PROCEDURE: **RNAV (RNP) Z RWY 03** 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	**2.92**
(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	**024.38**
4. High Terrain in	**FINAL**	segment containing 1000' point	**30**
5. Distance from	**THLD**	to 1500' point	**6.37**
(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	**024.36**
8. High Terrain in	**INTERMEDIATE**	segment containing 1500' point	**30**

9. Threshold Coordinates (if straight-in) ... **325305.35N** / **0800244.17W**

10. ARP Coordinates ..... **325355.10N** / **0800225.90W**

11. Runway Approach End and distance furthest from ARP ..... RWY **3**

Distance **0.94** NM

12. FAF Coordinates ..... **324933.97N** / **0800437.73W**

REMARKS: Approach/Drawing attached.

HODIL-ZUNSU

KCHS RNP 03
hodil-ZUNSU
DO NOT REMOVE FROM PACKAGE

PFAF
Calculations

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

Latitude / Longitude used for straight segment only

VEB
OCS Origin & Slope

Intermediate Segment Altitude:	1300
LTP Elevation:	21
Glidepath Angle:	3
TCH:	50
RNP Value:	0.30
Δ ISA:	-19.9
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	**3,674.91'**
(*Wingspan =<136*) **LTP to Origin:**	**3,468.00'**
OCS Slope Ratio:	**20.69 : 1**
RF Turn Segment | Bank angle:	**0.00°**
(*Wingspan =<262*) **LTP to Origin:**	**NA**
(*Wingspan =<136*) **LTP to Origin:**	**NA**
OCS Slope Ratio:	**NA**

Version 2.0

VEB
Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	1400	
LTP Elevation:	284.4	
ACT:	-18.89°C	
Min Glidepath Angle	**2.75°**	
NA Below	**-15.67°C**	**3.79°F**
NA Above	**47.34°C**	**117.21°F**

Intermediate Segment
VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	38.00
TCH (ft)	50.00
OCS Slope	20.69
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,804.10
Obstacle Distance (ft) *(measured along-track from LTP)*	50,702.05
VEB ROC *(at obstacle)*	**449**
Glidepath MSL altitude at Obstacle	2,806.78
OCS MSL altitude at Obstacle	2,357.40

KCHS
RNAV (RNP) Z RWY 3, ORIG
UZADY to PFAF(ZUNSU)

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:	1300
LTP Elevation:	21
Glidepath Angle:	3
TCH:	50
RNP Value:	0.30
Δ ISA:	-19.9
Straight In Segment	
(*Wingspan =<262*) LTP to Origin:	**3,674.91'**
(*Wingspan =<136*) LTP to Origin:	**3,468.00'**
OCS Slope Ratio:	**20.69 : 1**
RF Turn Segment | Bank angle:	**23.95°**
(*Wingspan =<262*) LTP to Origin:	**4,257.96'**
(*Wingspan =<136*) LTP to Origin:	**3,728.79'**
OCS Slope Ratio:	**20.69 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	2500	
LTP Elevation:	9.5	
ACT:	-12.00°C	
Min Glidepath Angle	**2.79°**	
NA Below	**-12.00°C**	**10.40°F**
NA Above	**49.31°C**	**120.77°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	21.00
TCH (ft)	50.00
OCS Slope	20.69
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,804.10
Obstacle Distance (ft) *(measured along-track from LTP)*	52,439.85
VEB ROC *(at obstacle)*	**457**
Glidepath MSL altitude at Obstacle	2,885.15
OCS MSL altitude at Obstacle	2,428.37

KALB RNP 03
RORDY-ZUNSU
DO NOT REMOVE FROM PACKAGE

PFAF Calculations

Min Intermediate Segment Alt (a):	0.00
LTP MSL Elevation (b):	0.00
TCH:	0.00
Glidepath Angle (Θ):	0.00°
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	000° 00' 00.00"
LTP/FTP Longitude:	000° 00' 00.00"
True RWY Bearing/True Course:	0.00
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:	1300
LTP Elevation:	21
Glidepath Angle:	3
TCH:	50
RNP Value:	0.30
Δ ISA:	-20
Straight In Segment	
(*Wingspan =<262*) **LTP to Origin:**	**3,676.93'**
(*Wingspan =<136*) **LTP to Origin:**	**3,469.93'**
OCS Slope Ratio:	**20.70 : 1**
RF Turn Segment | Bank angle:	**0.00°**
(*Wingspan =<262*) **LTP to Origin:**	**NA**
(*Wingspan =<136*) **LTP to Origin:**	**NA**
OCS Slope Ratio:	**NA**

Version 2.0

VEB Temperature Limits

Glidepath Angle:	3.00°	
Max Glidepath Angle:	3.50°	
PFAF Elevation:	1400	
LTP Elevation:	284.4	
ACT:	-18.89°C	
Min Glidepath Angle	**2.75°**	
NA Below	**-15.67°C**	**3.79°F**
NA Above	**47.34°C**	**117.21°F**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	38.00
TCH (ft)	50.00
OCS Slope	20.69
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,804.10
Obstacle Distance (ft) *(measured along-track from LTP)*	43,856.99
VEB ROC *(at obstacle)*	**420**
Glidepath MSL altitude at Obstacle	2,432.54
OCS MSL altitude at Obstacle	2,012.30