US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - 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
WITTO (IF/IAF)	ECEUS (FB)	209.17 / 3.17	3400
ECEUS	MUSOJ (FB)	209.16 / 3.30	2400
MUSOJ (FAF)	WUBAK/1.50 NM TO ORMEY (FB)	195.63 / 3.37	1300
WUBAK/1.50 NM TO ORMEY	ORMEY (MAP) (FO)	195.63 / 1.50	
ORMEY (MAP)	1100 MSL	195.63	1100
1100 MSL	GVE VORTAC (FO)		4000

MISSED APPROACH

LP: ORMEY
LNAV: ORMEY

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 4000 DIRECT GVE VORTAC AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NE WITTO, LT, 224.00 INBOUND, 4300 FT. IN LIEU OF PT (IAF)
3. FAC: 195.63 FAF: MUSOJ DIST FAF TO MAP: 4.87 THLD: 5.35
4. MIN. ALT: WITTO 4300, ECEUS 3400, MUSOJ 2400, WUBAK/1.50 NM TO ORMEY 1300
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS CLEAR
8. MSA FROM: ORMEY 5300

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 033.00 INBOUND.
CHART FAS OBST: 684 TREE 380900N/0782639W
CHART FAS OBST: 980 TREE 381046N/0782516W
CHART: 974 TREE 381050N/0782517W
WAAS CHANNEL # 62831
REFERENCE PATH ID: W21A
MUSOJ TO RW21: 3.05/50.
FAC CROSSES RWY C/L EXTENDED 3000 FROM THLD.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.52 DEGREES.
LTP HAE: 155.7 M

MAG VAR: 8W EPOCH YEAR: 1985

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
LP MDA	940	1	322	940	1	322	940	1	322	940	1	322			
LNAV MDA	1080	1	462	1080	1	462	1080	1 3/8	462	1080	1 3/8	462			
CIRCLING	1080	1	440	1100	1	460	1100	1 1/2	460	1480	2 3/4	840			

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE STAUNTON/WAYNESBORO/HARRISONBURG ALTIMETER SETTING AND INCREASE ALL MDA 140, AND INCREASE LP CATS C/D VISIBILITY TO 1 3/8 MILE, LNAV CATS C/D TO 1 3/4 MILE, AND CIRCLING CAT D TO 3 MILE.
CHART NOTE: DME/DME RNP-0.3 NA.

@ CAT D 900-2 3/4
@ NA WHEN LOCAL WEATHER NOT AVAILABLE

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 640 THRE: 618	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CHARLOTTESVILLE, VA	AIRPORT NAME: CHARLOTTESVILLE-ALBEMARLE	RNAV	RNAV (GPS) Y RWY 21, AMDT 2	AMDT: 1
				DATED 08/30/2007

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] **ZDC, PCT APP CON, KCHO AMGR.**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **DONALD E. SMITH (DANA MITCHELL)**	FIFO **AJV-352**	DATE: **08/13/2012**

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

CHANGES:

1. CHANGED FROM TDZE TO THRE.
2. REMOVED AND CANCELLED FIX RICOB.
3. FAF ALTITUDE LOWERED TO 2400.
4. ADDED LP MINIMA.
5. LOWERED LNAV/CIRCLING MINIMA / VISIBILITIES.
6. FAF TO MAP CHANGED FROM 5.0NM TO 4.87 NM.
7. TERMINAL ROUTE WITTO TO ECEUS ALT CHANGED FROM 3600 TO 3400.
8. TERMINAL ROUTE ECEUS TO MUSOJ CHANGED FROM 2700 TO 2400.
9. STEPDOWN FIX WUBAK ADDED TO FINAL.
10. MISSED APPROACH CHANGED FROM 'CLIMB TO 4000 DIRECT RICOB AND VIA 111.29 TRACK TO GVE VORTAC AND HOLD' TO 'CLIMB TO 1100, THEN CLIMBING LEFT TURN DIRECT GVE VORTAC AND HOLD'.
11. BACKUP ALTIMETER NOTE CHANGED FROM 'IF' TO 'WHEN'.
12. DELETED VGSI NOT COINCIDENT NOTE.
13. DESCENT ANGLE CHANGED FROM 3.49 TO 3.05.
SEE 8260-10

REASONS:

1. IAW 8260.3B CHG 20 PARA 3.1.
2. MISSED APPROACH COULD START IMMEDIATE TURN - FIX NOT REQUIRED.
3. OBSTACLE EVALUATION.
4. PER FPT REQUEST.
5. OBSTACLE EVALUATION - OE/FPT APPROVAL.
6. FIX ORMEY MOVED SO FINAL CROSSES POINT AT LEAST 3000 FT FROM THRESHOLD.
7. OBSTACLE EVALUATION / DG.
8. OBSTACLE EVALUATION/ DG/ LOWER FAF FOR OPTIMUM DG.
9. OBSTACLE EVALUATION / LOWER MINIMA AVAILABLE.
10. IAW PER 8260.54A PARA 6.2
11. 8260.19 PARA 8-57 (4), (5).
12. VGSI AND GLIDE PATH ANGLE COINCIDENT WITHIN .2.
13. OPTIMUM GPA VIA 8260.54A 1.7.12.
14. VDP BETWEEN MAP AND RUNWAY THRESHOLD.
SEE 8260-10

QUALITY CHECKED

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CITY AND STATE	ELEVATION: 640 THRE: 618	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CHARLOTTESVILLE, VA	AIRPORT NAME: CHARLOTTESVILLE-ALBEMARLE	RNAV	RNAV (GPS) Y RWY 21, AMDT 2	AMDT: 1
				DATED: 08/30/2007

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

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:

CHANGES CONT.
14. VDP REMOVED. 15. HOLDING AT WITTO CHANGED FROM 4100 TO 4300. 16. FAC CHANGED FROM 196.01 TO 195.63.

REASONS:

REASONS CONT.
15. PR ADJ ADDED.
16. MOVED ORMEY TO 3000 FT POINT.

QUALITY CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCHO
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
FTP LATITUDE	380852.7795N
FTP LONGITUDE	0782643.0900W
FTP ELLIPSOIDAL HEIGHT	+01557
FPAP LATITUDE	380724.3710N
FPAP LONGITUDE	0782658.0710W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	5FECAA8F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01884
FPAP ORTHOMETRIC HEIGHT	+01884

QUALITY CHECKED 1

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				DATED: 08/30/2007

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☐ YES ☐ NO		

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:

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ARINC PACKET - 424-18 - RNAV (GPS)

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        GVE   K6011560VTHA N38004896W078091089    N38004896W078091089W0060003822     NARGORDONSVILLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ECEUS K60    W     N38171629W078241831                     W0098     NAR           ECEUS
        SUSAEAENRT   MUSOJ K60    W     N38141143W078254901                     W0098     NAR           MUSOJ
        SUSAEAENRT   ORMEY K60    W     N38092133W078263825                     W0097     NAR           ORMEY
        SUSAEAENRT   WITTO K60    C   L N38201384W078225107                     W0098     NAR           WITTO
        SUSAEAENRT   WUBAK K60    W     N38105062W078262309                     W0097     NAR           WUBAK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHOK6ACHO     0     068YHN38082270W078270840W008000640         1800018000C    MNAR    CHARLOTTESVILLE-ALBEMARLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHOK6FR21-Y AWITTO 010WITTOK6EA0EE AL   HF                    22400050    + 04300     18000                A JS
        SUSAP KCHOK6FR21-Y R      010WITTOK6EA0E  I    IF                                + 04300     18000                A JS
        SUSAP KCHOK6FR21-Y R      011ECEUSK6EA0E S  051TF                    20920032    + 03400                          A JS
        SUSAP KCHOK6FR21-Y R      020MUSOJK6EA1E  F 051TF                    20920033    + 02400                ORMEY K6EAA JS
        SUSAP KCHOK6FR21-Y R      020MUSOJK6EA2WALP        N          ALNAV                                                JS
        SUSAP KCHOK6FR21-Y R      021WUBAKK6EA0E S  031TF                    19560034    V 0130001309        -305          A JS
        SUSAP KCHOK6FR21-Y R      030ORMEYK6EA0EY M 031TF                    19560015      00823             -305          A JS
        SUSAP KCHOK6FR21-Y R      040         0  M     CA                    1956        + 01100                          A JS
        SUSAP KCHOK6FR21-Y R      050GVE  K6D 0VY  L   DF                                + 04000                          A JS
        SUSAP KCHOK6FR21-Y R      060GVE  K6D 0VE  R   HM                    03300050    + 04000                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHOK6GRW21    0068012101 N38085385W078265240+0300    +0155700618000050150R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHOK6PR21-Y RW21 001Y0000W21A0N3808527795W07826430900+015570305N3807243710W07826580710106750000000500F4000005FECAA8F
        SUSAP KCHOK6PR21-Y RW21 002E      +01884+01884LP        62831
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CITY AND STATE	ELEVATION: 640 THRE: 618	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHARLOTTESVILLE, VA	AIRPORT NAME: CHARLOTTESVILLE-ALBEMARLE	RNAV	RNAV (GPS) Y RWY 21, AMDT 2	AMDT: 1
				DATED: 08/30/2007

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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```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCHOK6SORMEYK6EA                0   18018005325                                                                          M
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CITY AND STATE	ELEVATION: 640 THRE: 618	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHARLOTTESVILLE, VA	AIRPORT NAME: CHARLOTTESVILLE-ALBEMARLE	RNAV	RNAV (GPS) Y RWY 21, AMDT 2	AMDT: 1
				DATED: 08/30/2007

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

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.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	WITTO	WITTO	010	IAF	HF	L	FO		224.0(216.0T)	005.0	AA 04300	
		WITTO	010	FACF	IF		FB				AA 04300	
		ECEUS	011	SDF	TF		FB	0.5	209.2(201.2T)	003.2	AA 03400	
		MUSOJ	020	FAF	TF		FB	0.5	209.2(201.2T)	003.3	AA 02400	
		WUBAK	021	SDF	TF		FB	0.3	195.6(187.6T)	003.4	AA 01300 GS 01309	
		ORMEY	030	MAP	TF		FO	0.3	195.6(187.6T)	001.5	AT 00823	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		195.6(187.6T)		AA 01100	
	GVE	050		DF	L	FO				AA 04000	
	GVE	060		HM	R	FO		033.0(025.0T)	005.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GVE	N380048.96	W0780910.89	N3800.816	W07809.182
	ECEUS	N381716.29	W0782418.31	N3817.272	W07824.305
	MUSOJ	N381411.43	W0782549.01	N3814.191	W07825.817
	ORMEY	N380921.33	W0782638.25	N3809.356	W07826.638
	WITTO	N382013.84	W0782251.07	N3820.231	W07822.851
	WUBAK	N381050.62	W0782623.09	N3810.844	W07826.385
	RW21	N380853.85	W0782652.40	N3808.898	W07826.873

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW21	00618	50

CITY AND STATE	ELEVATION: 640 THRE: 618	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHARLOTTESVILLE, VA	AIRPORT NAME: CHARLOTTESVILLE-ALBEMARLE	RNAV	RNAV (GPS) Y RWY 21, AMDT 2	AMDT: 1
				DATED: 08/30/2007

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

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	WITTO (IF/IAF)	ECEUS	1. AAO	382139.00N/0782415.00W	1755 (2C)	500	AT1145	3400
			2. TERRAIN	382139.00N/0782415.00W	1555 (1600)		AS1500	3100
INTERMEDIATE:	ECEUS	MUSOJ	3. AAO	381848.00N/0782709.00W	1499 (2C)	500	AT401	2400
STEPDOWN			4. TERRAIN	381848.00N/0782709.00W	1299 (1300)		AS1000	2300
FINAL: LP	MUSOJ	WUBAK/1.50 NM TO ORMEY	5. AAO	381227.00N/0782624.00W	882 (2C)	250	RA140 DG28	1300
FINAL: LNAV	MUSOJ	WUBAK/1.50 NM TO ORMEY	5. AAO	381227.00N/0782624.00W	882 (2C)	250	RA140 DG28	1300
FINAL: LP STEPDOWN	WUBAK/1.50 NM TO ORMEY	ORMEY	6. TREE (KCHO0020)	380900.36N/0782639.15W	684 (1A)	250		940
FINAL: LNAV STEPDOWN	WUBAK/1.50 NM TO ORMEY	ORMEY	7. TREE (KCHOT0314)	381045.77N/0782516.30W	980 (1A)	250	SA-234 MA67	1080
2. HOLD-IN-LIEU-OF-PT	WITTO	P-6	8. AAO	382627.00N/0782457.00W	3707 (4E)	1000	PR240 SA-701	4300
			9. TERRAIN	382354.50N/0782416.90W	2593 (2600)		AS1500	4100
3. MISSED APPROACH — MAP:	ORMEY / ORMEY	GVE VORTAC	10. AAO	380503.00N/0782039.00W	1680 (2C)	ASC		4000
			11. AAO	380715.00N/0781730.00W	1844 (2C)	1000		2900
ELEV:	916/980		12. TERRAIN	380715.00N/0781730.00W	1644 (1600)		AC1500	3100
			12. OL ANT LTD	380652.21N/0782716.76W	753 (1A)	300	SI	1080
			12. OL ANT LTD	380652.21N/0782716.76W	753 (1A)	300	HAA	1100
			12. OL ANT LTD	380652.21N/0782716.76W	753 (1A)	300	HAA	1100
			13. TOWER (51-000270)	381043.83N/0782509.18W	1167 (1C)	300		1480

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	
CATEGORY A	1.3 NM	350	440	
CATEGORY B	1.5 NM	450	460	
CATEGORY C	1.7 NM	450	460	
CATEGORY D	2.3 NM	550	840	
CATEGORY E	4.5 NM	550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: ORMEY

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	013/ 24.1	4250 (2C)	5300					

CITY AND STATE	ELEVATION: 640 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CHARLOTTESVILLE, VA	CHARLOTTESVILLE-ALBEMARLE	RNAV	RNAV (GPS) Y RWY 21, AMDT 2	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
PCT APP CON CHO TOWER DCA FSS		N W S	OTHER: ASOS	SOURCE: KCHO / KSHD
		F A A		DISTANCE: 0 / 22.28
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24
X V H F X U H F H F	LOCATION: KCHO			ADJUSTMENT: 0 / 140

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 03 (PCL)
	X	HIRL 21 (PCL), 03 (PCL)
		MIRL
	X	REIL 21
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4R 21

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 03
	INSTRUMENT	NPI-G 21
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH	GP ANGLE: 3.05	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD 3000	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (DANA MITCHELL)	DATE: 08/13/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - VDP CLOSE TO MAP.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 974 TREE
381050N/0782517W

KCHO ON SVC A

FAS ALIGNMENT 14.14 DEGREES OFF C/L AT ORMEY DUE TO HIGH TERRAIN IN FINAL.
VDP NOT ESTABLISHED - VDP CLOSE TO MAP
VGSI DATA: 3.00/50.0.

RASS PRESSURE PATTERNS SAME
KCHO 640, KSHD 1201
RA = 140.

TAA NOT DEVELOPED PER CHECKLIST / FPT REQUEST

RADIO FIX AND HOLDING DATA RECORD

NAME: ECEUS **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 381716.29N/0782418.31W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 21			KCHO	CHARLOTTESVILLE	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
REMOVED FIX MAKE UP
UPDATED FORMAT AND FIX USE

DEVELOPED BY: **DATE:** 07/30/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DANA MITCHELL)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MUSOJ **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 381411.43N/0782549.01W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 21			KCHO	CHARLOTTESVILLE	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
REMOVED FIX MAKE UP
UPDATED FORMAT

DEVELOPED BY: **DATE:** 07/30/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DANA MITCHELL)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON, KCHO ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ORMEY **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 380921.33N/0782638.25W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 21			KCHO	CHARLOTTESVILLE	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
REMOVED FIX MAKE UP
UPDATED FORMAT
FIX MOVED 798 FT NE SO FINAL CROSSES POINT WAS AT LEAST 3000 FT FROM THRESHOLD

DEVELOPED BY: **DATE:** 07/30/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DANA MITCHELL)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RICOB **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 380416.61N/0782734.95W **TYPE:** WP

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ORMEY					188.01	5.00				17500

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 10/30/2003

DEVELOPED BY: **DATE:** 08/02/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DANA MITCHELL)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: NYC
ARTCC: ZDC
ATC FACILITY: RIC APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WUBAK **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 381050.62N/0782623.09W **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 21			KCHO	CHARLOTTESVILLE	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 07/30/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DANA MITCHELL)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: ZDC, KCHO ATCT
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: GORDONSVILLE VORTAC **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 380048.96N/0780910.89W **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	DIST FROM FAC FEET	MRA	MAA
1	GORDONSVILLE	GVE	VORTAC	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	GVE	VORTAC	213.00	033.00	R	1		4000	7000	4	8
2	S	GVE	VORTAC	182.00	002.00	R	1		2100	7000	4	8
3	SW		WP	213.00	033.00	R		5	4000	7000	5	9
4	S		WP	182.00	002.00	R		5	2100	7000	5	9
5	W	GVE	VORTAC	268.00	088.00	L	1 1/2		25000	41000	21	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	200' AAO (OBS-117529)	380731.00N/0781713.00W	2030	2C
1	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
2	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
3	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
4	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D
5	265	SPOT ELEVATION (OBS-116087)	380728.50N/0781716.20W	1830	4D

REASON FOR NONSTANDARD HOLDING:
PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED FROM 3300 TO 14,000.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	RNAV (GPS) RWY 27	KLKU	LOUISA	VA (US)

REMARKS:
CHART PAT 5 ENROUTE HIGH (J42) PER ATC REQUEST
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAZIR (RNAV)			KDCA	WASHINGTON	DC (US)
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	WINSTON			KINT	WINSTON-SALEM	NC (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	YEAST			KRIC	RICHMOND	VA (US)
EN ROUTE	J150					(US)
EN ROUTE	J37					(US)
EN ROUTE	J42		5			(US)
EN ROUTE	J75					(US)
EN ROUTE	V3					(US)
EN ROUTE	V375					(US)
EN ROUTE	V38					(US)
EN ROUTE	V39					(US)
EN ROUTE	V453					(US)
EN ROUTE	V473					(US)
EN ROUTE	V476					(US)
IAP	RNAV (GPS) RWY 8			K7W4	BUMPASS	VA (US)
IAP	ILS OR LOC RWY 3		1	KCHO	CHARLOTTESVILLE	VA (US)
IAP	RNAV (GPS) Y RWY 21		3	KCHO	CHARLOTTESVILLE	VA (US)
IAP	RNAV (GPS) RWY 3		3	KCHO	CHARLOTTESVILLE	VA (US)
IAP	RNAV (GPS) Z RWY 21		3	KCHO	CHARLOTTESVILLE	VA (US)
IAP	LOC RWY 4			KCJR	CULPEPER	VA (US)
IAP	RNAV (GPS) RWY 24			KEZF	FREDERICKSBURG	VA (US)
IAP	LOC/DME RWY 27		2	KLKU	LOUISA	VA (US)
IAP	RNAV (GPS) RWY 27		4	KLKU	LOUISA	VA (US)
IAP	GPS RWY 8		4	KOMH	ORANGE	VA (US)
IAP	VOR/DME OR GPS-A		2	KOMH	ORANGE	VA (US)
STAR	SMYRNA			KDOV	DOVER	DE (US)
STAR	SOUTH BOSTON			KIGX	CHAPEL HILL	NC (US)
STAR	SOUTH BOSTON			KLHZ	LOUISBURG	NC (US)
STAR	SOUTH BOSTON			KHNZ	OXFORD	NC (US)
STAR	FRAZI (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
STAR	SOUTH BOSTON			KRDU	RALEIGH/DURHAM	NC (US)

INFO ONLY

STAR	SOUTH BOSTON	KTDF	ROXBORO	NC (US)
STAR	SOUTH BOSTON	KTTA	SANFORD	NC (US)
STAR	SOUTH BOSTON	KJNX	SMITHFIELD	NC (US)
STAR	JAIKE (RNAV)	KCDW	CALDWELL	NJ (US)
STAR	JAIKE (RNAV)	KLDJ	LINDEN	NJ (US)
STAR	JAIKE (RNAV)	K47N	MANVILLE	NJ (US)
STAR	JAIKE (RNAV)	KMMU	MORRISTOWN	NJ (US)
STAR	DYLIN	KEWR	NEWARK	NJ (US)
STAR	PHLBO (RNAV)	KEWR	NEWARK	NJ (US)
STAR	JAIKE (RNAV)	KSMQ	SOMERVILLE	NJ (US)
STAR	JAIKE (RNAV)	KTEB	TETERBORO	NJ (US)
STAR	PAATS (RNAV)	KTTN	TRENTON	NJ (US)
STAR	KORRY	KLGA	NEW YORK	NY (US)
STAR	PAATS (RNAV)	KMQS	COATESVILLE	PA (US)
STAR	PAATS (RNAV)	KPHL	PHILADELPHIA	PA (US)
STAR	PAATS (RNAV)	KPNE	PHILADELPHIA	PA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
PAT 3 LEG LENGTH CHANGED FROM 5 NM TO 4 NM

DEVELOPED BY: **DATE:** 08/24/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WITTO **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 382013.84N/0782251.07W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	CASANOVA	CSN	VORTAC	H	239.27	233.27	30.36	30.36		4300	17500
2	GORDONSVILLE	GVE	VORTAC	H	337.00	331.00	22.19	22.19		4300	17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE		WP	044.00	224.00	L		5	4300	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	382627.00N/0782457.00W	3708	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 OBSTACLE CLEARANCE

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE 240 FT REQUIRED.
HOLDING OBSTACLE HAS SECONDARY AREA EQUIVILENCE OF 3007 FT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARSENAL	1, 2		KHEF	MANASSAS	VA (US)
EN ROUTE	V140	1				(US)
EN ROUTE	V3-39	2				(US)
IAP	RNAV (GPS) Y RWY 21		1	KCHO	CHARLOTTESVILLE	VA (US)
IAP	GPS RWY 8			KOMH	ORANGE	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FIX USE.
REMOVED FAC 3 WP INFORMATION.
ADDED HOLDING RESTRICTION.
ADDED PRECIPITOUS TERRAIN EVAL.
ADDED DEST FROM FACILITY FAC 1 & 2.
RAISED MINIMUM ALTITUDE FROM 4000 TO 4300.

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-352 **NAME:** STEVE BRUMMETT

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CHARLOTTESVILLE** STATE: **VA**

AIRPORT NAME: **CHARLOTTESVILLE ALBEMARLE** ID: **KCHO**

PROCEDURE: **RNAV (GPS) Y RWY 21** AMDT: **1**

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

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

1. Distance from **MAP** to 1000' point **2.54**
   (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 **187.63**
4. High Terrain in **FINAL** segment containing 1000' point **682**
5. Distance from **THLD** to 1500' point **2.10**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **2.13**
7. True Course of **INTERMEDIATE** segment containing 1500' point **201.16**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1299**
9. Threshold Coordinates (if straight-in) ... **380853.85N** / **0782652.40W**
10. ARP Coordinates ..... **380822.70N** / **0782708.40W**
11. Runway Approach End and distance furthest from ARP.....RWY **21**
    Distance **.62** NM
12. FAF Coordinates ..... **381411.43N** / **0782549.01W**
    (Click to Select)

REMARKS: MAP: ORMEY 380921.33N/0782638.25W
APPROACH / DRAWING ATTACHED