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
EMI VORTAC (IAF)	WOOLY (NOPT) (FB)	205.04 / 9.75	3200
WOOLY (IF/IAF)	ICIYU (FB)	219.64 / 5.82	2500
ICIYU (FAF)	YOYBU/2.80 NM TO YAYTU (FB)	219.60 / 3.20	
YOYBU/2.80 NM TO YAYTU	YAYTU (MAP) (FO)	219.58 / 2.80	
YAYTU (MAP)	939 MSL	219.58	
939 MSL	EMI VORTAC (FO)		3000

MISSED APPROACH

LNAV: YAYTU

CLIMBING RIGHT TURN TO 3000 DIRECT EMI VORTAC AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 297.64 INBOUND.
CHART FAS OBST: 719 TREE 391150N/0770855W
CHART 739 TREE 391223N/0770817W.
FAC CROSSES MID POINT OF RWY 14-32.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NE WOOLY, RT, 219.64 INBOUND, 3200 FT. IN LIEU OF PT (IAF)
3. FAC: 219.60 FAF: ICIYU DIST FAF TO MAP: 6.00 THLD: ____
4. MIN. ALT: WOOLY 3200, ICIYU 2500, YOYBU/2.80 NM TO YAYTU 1480
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: ____
8. MSA FROM: YAYTU 3300

MAG VAR: 9W 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
CIRCLING	1020	1	481	1020	1	481	1020	1 1/2	481	1100	2	561			

NOTES:
CHART NOTE: CIRCLING TO RWY 32 NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EMI VORTAC AIRWAY RADIALS 151 CW 269.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 539 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
GAITHERSBURG, MD	AIRPORT NAME: MONTGOMERY COUNTY AIRPARK	RNAV	RNAV (GPS)-A, 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] **ZDC, ZNY, POTOMAC APP CON, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **DONALD E. SMITH (RODNEY TEMPLETON)**	FIFO **AJV-352**	DATE: **12/20/2011**
APPROVED BY		
NAME: **DARRYEL ADAMS**	FIFO **AJV-352**	DATE:

CHANGES:

REASONS:

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NOTES, (CONT.):
CHART NOTE: WHEN LOCAL ALTIMETER SETTING IS NOT RECEIVED USE WASHINGTON DULLES INTL ALTIMETER SETTING: INCREASE ALL MDA 80 FT.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 539 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
GAITHERSBURG, MD	AIRPORT NAME: MONTGOMERY COUNTY AIRPARK	RNAV	RNAV (GPS)-A, ORIG	AMDT: NONE
				DATED:

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:

REASONS:

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR 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.

ARINC PACKET - 424-8 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        EMI   K6011790VTHA N39294203W076584286    N39294203W076584286W0080008202     NARWESTMINSTER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ICIYU K60    W     N39151828W077060039                      W0109     NAR           ICIYU
        SUSAEAENRT   WOOLY K60    C   L N39201918W077021117                      W0109     NAR           WOOLY
        SUSAEAENRT   YAYTU K60    W     N39100815W077095597                      W0108     NAR           YAYTU
        SUSAEAENRT   YOYBU K60    W     N39123293W077080608                      W0108     NAR           YOYBU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGAIK6AGAI     0     042YHN39100600W077095760W009000539         1800018000C    MNAR    MONTGOMERY COUNTY AIRPARK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGAIK6FRNV-A AEMI   010EMI  K6D 0V  A    IF                                                18000                B JC
        SUSAP KGAIK6FRNV-A AEMI   020WOOLYK6EA0EE B 010TF                    20500098    + 03200                                B JC
        SUSAP KGAIK6FRNV-A AWOOLY 010WOOLYK6EA0EE AR   HF                    21960040    + 03200     18000                      B JC
        SUSAP KGAIK6FRNV-A R      010WOOLYK6EA0E  I    IF                                + 03200     18000                      B JC
        SUSAP KGAIK6FRNV-A R      020ICIYUK6EA0E  F 051TF                    21960058    + 02500                  YAYTU K6EAB JC
        SUSAP KGAIK6FRNV-A R      021YOYBUK6EA0E S  031TF                    21960032    V 0148001480         000          B JC
        SUSAP KGAIK6FRNV-A R      030YAYTUK6EA0EY M 031TF                    21960028      01100              000          B JC
        SUSAP KGAIK6FRNV-A R      040         0  M     CA                    2196        + 00939                                B JC
        SUSAP KGAIK6FRNV-A R      050EMI  K6D 0VY  R   DF                                + 03000                                B JC
        SUSAP KGAIK6FRNV-A R      060EMI  K6D 0VE  R   HM                    29760060    + 03000                                B JC

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGAIK6SYAYTUK6EA                0   18018003325                                                                        M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 539 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
GAITHERSBURG, MD	AIRPORT NAME: MONTGOMERY COUNTY AIRPARK	RNAV	RNAV (GPS)-A, ORIG	AMDT: NONE
				DATED:

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-8 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	EMI	EMI	010	IAF	IF		FB					
	EMI	WOOLY	020		TF		FB	1.0	205.0(196.0T)	009.8	AA 03200	
	WOOLY	WOOLY	010	IAF	HF	R	FO		219.6(210.6T)	004.0	AA 03200	
		WOOLY	010	FACF	IF		FB				AA 03200	
		ICIYU	020	FAF	TF		FB	0.5	219.6(210.6T)	005.8	AA 02500	
		YOYBU	021	SDF	TF		FB	0.3	219.6(210.6T)	003.2	AA 01480 GS 01480	
		YAYTU	030	MAP	TF		FO	0.3	219.6(210.6T)	002.8	AT 01100	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		219.6(210.6T)		AA 00939	
	EMI	050		DF	R	FO				AA 03000	
	EMI	060		HM	R	FO		297.6(288.6T)	006.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	EMI	N392942.03	W0765842.86	N3929.701	W07658.714
	ICIYU	N391518.28	W0770600.39	N3915.305	W07706.007
	WOOLY	N392019.18	W0770211.17	N3920.320	W07702.186
	YAYTU	N391008.15	W0770955.97	N3910.136	W07709.933
	YOYBU	N391232.93	W0770806.08	N3912.549	W07708.101

QUALITY CHECKED

CITY AND STATE	ELEVATION: 539 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
GAITHERSBURG, MD	AIRPORT NAME: MONTGOMERY COUNTY AIRPARK	RNAV	RNAV (GPS)-A, ORIG	AMDT: NONE
				DATED:

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.
INITIAL	EMI VORTAC	WOOLY	1. AAO	393021.00N/0765829.00W	1099 (2C)	1000	AT1101	3200
			2. TERRAIN	393021.00N/0765833.00W	899 (900)		AS1500	2400
INTERMEDIATE	WOOLY (IF/IAF)	ICIYU	3. TOWER (24-000603)	391910.00N/0770024.00W	1084 (5E)	500	AC125 AT791	2500
			4. TERRAIN	392021.00N/0770509.00W	739 (700)		AS1500	2200
FINAL: LNAV	ICIYU	YOYBU/2.80 NM TO YAYTU	5. AAO	391441.00N/0770655.00W	819 (2C)	250	RA76 DG335	1480
FINAL: LNAV STEPDOWN	YOYBU/2.80 NM TO YAYTU	YAYTU	6. TREE	391150.00N/0770855.00W	719 (2C)	250		980
2. HOLD-IN-LIEU-OF-PT	WOOLY	P-5	1. AAO	393021.00N/0765829.00W	1099 (2C)	1000	AT1101	3200
			7. TERRAIN	393021.00N/0765829.00W	899 (900)		AS1500	2400
3. MISSED APPROACH — MAP:	YAYTU	EMI VORTAC				ASC		3000
			8. TWR (24-000050)	392049.00N/0771017.00W	1198 (1C)	1000		2200
ELEV:	920		9. TERRAIN	393133.00N/0770006.00W	955 (1000)		AS1500	2500
			10. TWR (24-000632)	391108.00N/0770908.00W	716 (2C)	300		1020
			11. TREE	391124.00N/0770859.00W	719 (2C)	300		1020
			11. TREE	391124.00N/0770859.00W	719 (2C)	300		1020
			12. TOWER (24-000970)	390753.33N/0771026.46W	723 (1C)	300	HAA	1100

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	481
CATEGORY B	1.5 NM	450	481
CATEGORY C	1.7 NM	450	481
CATEGORY D	2.3 NM	550	561
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: YAYTU

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (24-000066)	338/ 28.7	2231 (2D)	3300					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
GAITHERSBURG, MD	ELEVATION: 539 AIRPORT NAME: MONTGOMERY COUNTY AIRPARK	RNAV	RNAV (GPS)-A, ORIG	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZDC ARTCC PCT APP CON LEESBURG FSS		N W S	OTHER: AWOS-3	SOURCE: KGAI / KIAD
		F A A		DISTANCE: 0 / 19.08
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: KGAI			ADJUSTMENT: 0 / 76

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

5. APPROACH & RUNWAY LIGHTING		
		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 14 (PCL), 32 (PCL)
	X	REIL 14, 32 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-4L 14

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 14, 32
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: NONE

PART D - PREPARED BY: DONALD E. SMITH (RODNEY TEMPLETON)	DATE: 12/20/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 739 TREE 391223.00N/0770817.00W.

NON-STANDARD BANK ANGLE OF 25 DEGREES USED FOR MISSED APPROACH DUE TO SHORT SEGMENT LENGTH.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS: (FPT NOTIFIED)

20:1
R32
592 POLE (KGAI0022) 390951.18N-0770926.85W (26.50)
565 POLE (KGAIA027) 390953.50N-0770932.43W (24.08)
598 TREE (KGAIA037) 390946.23N-0770928.07W (21.11)
589 POLE (24-000635) 390946.00N-0770930.00W (17.44)
561 BUSH (KGAI0017) 390952.55N-0770931.29W (13.60)
574 TREE (KGAI00005) 390947.67N-0770931.29W (11.84)
570 BUSH (KGAI00007) 390950.17N-0770928.07W (5.21)
596 TREE (KGAIA041) 390945.06N-0770924.69W (4.94)
589 TREE (KGAI0008) 390945.35N-0770925.47W (1.27)
595 TREE (KGAI0012) 390944.83N-0770923.67W (0.04)

VGSI: NONE

AVERAGE VEGATION HEIGHT 100 FT PER FPT.

VDP NOT ESTABLISHED-FINAL IS CIRCLING ONLY.

FAC CROSSES MID POINT OF RWY 14-32.

CIRCLING TO RWY 32 NA AT NIGHT.

RASS PRESSURE PATTERNS SAME
KGAI 539, KIAD 312
RA = 75.57.
SEE ATTACHED AIRSPACE LETTER.

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ICIYU **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 391518.28N/0770600.39W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-A			KGAI	GAITHERSBURG	MD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/18/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (RODNEY TEMPLETON)

APPROVED BY: **DATE:** **OFFICE:** **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WESTMINSTER VORTAC **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 392942.03N/0765842.86W **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	WESTMINSTER	EMI	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	S	EMI	VORTAC	178.07	358.07	L	1		2500	6000	6	7
2	SE		WP	117.64	297.64	R		6	3000	6000	7	8
3	S	EMI	VORTAC	179.00	359.00	L	1		2600	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	393424.00N/0765815.00W	1162	4E
2	230	TOWER (24-001005)	392649.94N/0764647.21W	1549	1A
3	230	AAO	393424.00N/0765815.00W	1162	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AND 3: AIR TRAFFIC AIRSPACE RESTRICTION

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
EN ROUTE	J211					(US)
EN ROUTE	J48					(US)
EN ROUTE	J48-77					(US)
EN ROUTE	J61					(US)
EN ROUTE	TK502					(US)
EN ROUTE	V166					(US)
EN ROUTE	V265					(US)
EN ROUTE	V268					(US)
EN ROUTE	V3-166-457					(US)
EN ROUTE	V3-457					(US)
EN ROUTE	V419					(US)
IAP	CONVERGING ILS RWY 19C		3	KIAD	WASHINGTON	DC (US)
IAP	CONVERGING ILS RWY 19R		3	KIAD	WASHINGTON	DC (US)
IAP	CONVERGING ISL RWY 19L		3	KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 1		3	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1R (CAT II)		3	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1R (CAT III)		3	KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 10			KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 15L			KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 28		3	KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 33L		3	KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 33R			KBWI	BALTIMORE	MD (US)
IAP	ILS RWY 10 (CAT II)			KBWI	BALTIMORE	MD (US)
IAP	ILS RWY 10 (CAT III)			KBWI	BALTIMORE	MD (US)
IAP	ILS RWY 15 R			KBWI	BALTIMORE	MD (US)
IAP	VOR RWY 28			KBWI	BALTIMORE	MD (US)
IAP	LOC RWY 15			KMTN	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 23			KFDK	FREDERICK	MD (US)
IAP	RNAV (GPS) Y RWY 23		2	KFDK	FREDERICK	MD (US)
IAP	RNAV (GPS) Z RWY 23		2	KFDK	FREDERICK	MD (US)
IAP	VOR - A			KFDK	FREDERICK	MD (US)
IAP	NDB RWY 14			KGAI	GAITHERSBURG	MD (US)
IAP	RNAV (GPS)-A		2	KGAI	GAITHERSBURG	MD (US)
IAP	VOR RWY 14			KGAI	GAITHERSBURG	MD (US)
IAP	VOR - A		3	K2W2	WESTMINSTER	MD (US)
IAP	VOR RWY 34		1	KDMW	WESTMINSTER	MD (US)
IAP	VOR/DME - B			KN68	CHAMBERSBURG	PA (US)
IAP	RNAV (GPS) - A			KW05	GETTYSBURG	PA (US)
IAP	GPS RWY 35			KTHV	YORK	PA (US)
STAR	DELRO ARRIVAL			KIAD	WASHINGTON	DC (US)
STAR	PHILIPSBURG ARRIVAL			KIAD	WASHINGTON	DC (US)

QUALITY CHECKED 2

STAR	SELINSGROVE ARRIVAL	KIAD	WASHINGTON	DC (US)
STAR	WESTMINSTER ARRIVAL	KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER ARRIVAL	KMTN	BALTIMORE	MD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED HOLDING PATTERN 2 DME LENGTH FROM 7 TO 6.

DEVELOPED BY: **DATE:** 12/01/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (RODNEY TEMPLETON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PCT TRACON, BWI TWR
OTHER: ZDC

RADIO FIX AND HOLDING DATA RECORD

NAME: WOOLY **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 392019.18N/0770211.17W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	BALTIMORE	BAL	VORTAC	L	311.00	300.00	20.17	20.17		2600	17500
2	WESTMINSTER	EMI	VORTAC	H	204.04	196.04		9.75		2600	17500
3	MARTINSBURG	MRB	VORTAC	L	101.00	094.00		37.89		3200	17500

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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	039.64	219.64	R		4	3200	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	393021.00N/0765829.00W	1099	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	STOIC (RNAV)			KIAD	WASHINGTON	DC (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
EN ROUTE	V214	1, 2, 3				(US)
EN ROUTE	V44	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 10			KFME	FORT MEADE (ODENTON)	MD (US)
IAP	RNAV (GPS)-A		1	KGAI	GAITHERSBURG	MD (US)
IAP	RNAV (GPS) RWY 34			KDMW	WESTMINSTER	MD (US)
STAR	SMYRNA			KDOV	DOVER	DE (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED HOLDING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/30/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (RODNEY TEMPLETON)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YAYTU **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 391008.15N/0770955.97W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-A			KGAI	GAITHERSBURG	MD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/17/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (RODNEY TEMPLETON)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YOYBU **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 391232.93N/0770806.08W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-A			KGAI	GAITHERSBURG	MD (US)

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 12/14/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (RODNEY TEMPLETON)

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

SIGNATURE:

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

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **GAITHERSBURG** STATE: **MD**

AIRPORT NAME: **MONTGOMERY COUNTY AIRPARK** ID: **KGAI**

PROCEDURE: **RNAV (GPS) A** AMDT: **ORIG**

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

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

1. Distance from **MAP** to 1000' point **3.00**
   (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 **210.60**
4. High Terrain in **FINAL** segment containing 1000' point **621**
5. Distance from **MAP** to 1500' point **5.20**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.39**
7. True Course of **FINAL** segment containing 1500' point **210.60**
8. High Terrain in **FINAL** segment containing 1500' point **621**
9. Threshold Coordinates (if straight-in) ... _____ . _____
10. ARP Coordinates ..... **391006.00N** / **0770957.60W**
11. Runway Approach End and distance furthest from ARP.....RWY **14**
    Distance **0.35** NM
12. FAF Coordinates ..... **391518.28N** / **0770600.39W**
    (Click to Select)

REMARKS: Approach/Drawing attached.