Flight Procedure Tracking Form	Action: AMENDMENT	Task Type: IAP	Date Open: 07/02/2012	Task #: 2012070225253201003	Request #: 20120702252532
Procedure: RNAV (GPS) RWY 13 ORIG-A		Airport ID: KCSG	Airport: COLUMBUS AIRPORT		Reimbursable #:
City: COLUMBUS	ST: GA	GPS #:		Estimated Chart Date: 05/02/2013	FICO #:
Fac ID:	Fac. Type:	Specialist: JOHN JOHNSON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:				
QA:				12/5/12 (TN) 12/13/12 (TN)
Liaison:				

QUALITY CHECKED

Procedure Comments:

Remark Type: INFORMATION

ATTACHED FORMS: 8260-3, 8260-9, 8260-10
8260-2(S): COLUMBUS VTAC, REV 8 (INFO-ONLY); HAVUP, REV 1; ICECA, REV 1; JALVO, REV 1; MARVO, REV 4.
CONTACT: DON SMITH/MARLON ROBINSON, AJV-352 POC, 405.954.1036/3636

Coding ✓
FIG NA

JAN 08 2013 MB

ARI
SAVED

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
CSG VORTAC	ICECA (FO)	285.25 / 6.26	2500
JALVO (IAF)	ICECA (NOPT) (FB)	218.93 / 6.24	2500
MARVO (IAF)	ICECA (NOPT) (FB)	048.23 / 5.47	2500
ICECA (IF/IAF)	HAVUP (FB)	128.89 / 6.89	2100
HAVUP (FAF)	RW13 (MAP) (FO)	128.95 / 5.11	
RW13 (MAP)	797 MSL	128.95	
797 MSL	ICECA (FO)		2500

MISSED APPROACH

LNAV: RW13

CLIMBING RIGHT TURN TO 2500 DIRECT ICECA AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 128.89 INBOUND.
CHART FAS OBST: 689 TREE 323345N/0850006W
CHART 835 TOWER 323442N/0850105W.
HAVUP TO RW13: 3.05/50.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW ICECA, RT, 128.89 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 128.95 FAF: HAVUP DIST FAF TO MAP: 5.11 THLD: 5.11
4. MIN. ALT: ICECA 2500, HAVUP 2100
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 NOT CLEAR
8. MSA FROM: RW13 3500

MAG VAR: 2W EPOCH YEAR: 1990

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
LNAV MDA	940	1	543	940	1	543	940	1 5/8	543	940	1 5/8	543			
CIRCLING	940	1	543	940	1	543	940	1 5/8	543	960	2	563			

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JALVO ON V321 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MARVO ON V20-56 WESTBOUND.
CHART NOTE: RWY 13 STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 24/31 NA AT NIGHT.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 397 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
COLUMBUS, GA	AIRPORT NAME: COLUMBUS AIRPORT	RNAV	RNAV (GPS) RWY 13, ORIG-A	AMDT: ORIG
				DATED 01/20/2005

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] **ZTL, ATL APP CON, AMGR**

FLIGHT CHECKED BY		
NAME: **THOMAS HOOD DORMAN**	FIFO **FIOG**	DATE: **10/05/2004**
DEVELOPED BY		
NAME: **STEVEN L. SZUKALA (JOHN JOHNSON)**	FIFO **AJV-351**	DATE: **10/31/2012**
APPROVED BY		
NAME: **SUSAN CRUMB** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

1. UPDATED AIRPORT NAME FROM COLUMBUS METROLPOLITAN TO COLUMBUS AIRPORT.
2. UPDATED CONTROLLING OBSTACLES ID NUMBERS.
3. INCREASED LNAV CAT C VISIBILITY FROM 1 1/2 TO 1 5/8 AND DECREASED CAT D VISIBILITY FROM 1 3/4 TO 1 5/8.
4. INCREASED CIRCLING CAT C VISIBILITY FROM 1 1/2 TO 1 5/8.
5. DELETED "PROCEDURE NA AT NIGHT" NOTE.
6. ADDED "RWY 13 STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 24/31 NA AT NIGHT" NOTE.
7. ADDED "CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED" NOTE.
8. CHANGED TDZE 397 TO THRE 397.

REASONS:

1. NEW DATA.
2. TERMINAL POLICY.
3,4. IAW 8260.3B, CHAP. 3.3.2
5,6,7. 20:1 PENETRATIONS AND IAW TERMINAL POLICY MEMO DATED 14 SEP 2012.
8. IAW 8260.3B, CHANGE 20.

PDF EDITS:
1. ADDED "(FAF)" AFTER HAVUP ON 8260-3, TERMINAL ROUTES.
2. CHANGED MISSED SEGMENT ALTITUDE FROM "797" TO "2500" ON 8260-3, TERMINAL ROUTES.

QUALITY CHECKED

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 PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CSG   K7011710VTL  N32365491W085010347    N32365491W085010347E0010006301     NARCOLUMBUS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HAVUP K70    W     N32341228W085014560                    W0040     NAR          HAVUP
        SUSAEAENRT   ICECA K70    W     N32382102W085081673                    W0040     NAR          ICECA
        SUSAEAENRT   JALVO K70    C   L N32432077W085035052                    W0040     NAR          JALVO
        SUSAEAENRT   MARVO K70    C   L N32343359W085125739                    W0039     NAR          MARVO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCSGK7ACSG     0     069YHN32305880W084561990W002000397        1800018000C    MNAR    COLUMBUS AIRPORT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCSGK7FR13   ACSG   010CSG  K7D 0V       IF                                                18000                B JS
        SUSAP KCSGK7FR13   ACSG   020ICECAK7EA0EY A 020TF                    28530063    + 02500                            B JS
        SUSAP KCSGK7FR13   ACSG   030ICECAK7EA0EE AR   HF                    12890040    + 02500                            B JS
        SUSAP KCSGK7FR13   AJALVO 010JALVOK7EA0E  A    IF                                                18000                B JS
        SUSAP KCSGK7FR13   AJALVO 020ICECAK7EA0EE B 010TF                    21890062    + 02500                            B JS
        SUSAP KCSGK7FR13   AMARVO 010MARVOK7EA0E  A    IF                                                18000                B JS
        SUSAP KCSGK7FR13   AMARVO 020ICECAK7EA0EE B 010TF                    04820055    + 02500                            B JS
        SUSAP KCSGK7FR13   R      010ICECAK7EA0E  I    IF                                + 02500     18000                B JS
        SUSAP KCSGK7FR13   R      020HAVUPK7EA1E  F 051TF                    12890069    + 02100                  RW13  K7PGB JS
        SUSAP KCSGK7FR13   R      020HAVUPK7EA2WN          N          ALNAV                                                    JS
        SUSAP KCSGK7FR13   R      030RW13 K7PG0GY M 031TF                    12900051      00447            -305          B JS
        SUSAP KCSGK7FR13   R      040         0  M     CA                    1290        + 00797                            B JS
        SUSAP KCSGK7FR13   R      050ICECAK7EA0EY  R   DF                                + 02500                            B JS
        SUSAP KCSGK7FR13   R      060ICECAK7EA0EE  R   HM                    12890040    + 02500                            B JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCSGK7GRW13    0039971290 N32310745W084565568-0700    +0093700397000050150R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 397 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
COLUMBUS, GA	AIRPORT NAME: **COLUMBUS AIRPORT**	**RNAV**	**RNAV (GPS) RWY 13, ORIG-A**	AMDT: **ORIG**
				DATED: **01/20/2005**

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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```
SUSAP KCSGK7SRW13 K7PG          0   18018003525                                    M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 397 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
COLUMBUS, GA	AIRPORT NAME: COLUMBUS AIRPORT	RNAV	RNAV (GPS) RWY 13, ORIG-A	AMDT: ORIG
				DATED: 01/20/2005

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
	CSG	CSG	010		IF		FB					
	CSG	ICECA	020		TF		FO	2.0	285.3(283.3T)	006.3	AA 02500	
	CSG	ICECA	030	IAF	HF	R	FO		128.9(126.9T)	004.0	AA 02500	
	JALVO	JALVO	010	IAF	IF		FB					
	JALVO	ICECA	020		TF		FB	1.0	218.9(216.9T)	006.2	AA 02500	
	MARVO	MARVO	010	IAF	IF		FB					
	MARVO	ICECA	020		TF		FB	1.0	048.2(046.2T)	005.5	AA 02500	
		ICECA	010	FACF	IF		FB				AA 02500	
		HAVUP	020	FAF	TF		FB	0.5	128.9(126.9T)	006.9	AA 02100	
		RW13	030	MAP	TF		FO	0.3	129.0(127.0T)	005.1	AT 00447	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		129.0(127.0T)		AA 00797	
	ICECA	050		DF	R	FO				AA 02500	
	ICECA	060		HM	R	FO		128.9(126.9T)	004.0	AA 02500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CSG	N323654.91	W0850103.47	N3236.915	W08501.058
	HAVUP	N323412.28	W0850145.60	N3234.205	W08501.760
	ICECA	N323821.02	W0850816.73	N3238.350	W08508.279
	JALVO	N324320.77	W0850350.52	N3243.346	W08503.842
	MARVO	N323433.59	W0851257.39	N3234.560	W08512.957
	RW13	N323107.45	W0845655.68	N3231.124	W08456.928

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00397	50

QUALITY CHECKED

CITY AND STATE	ELEVATION: 397 THRE: 397	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
COLUMBUS, GA	AIRPORT NAME: COLUMBUS AIRPORT	RNAV	RNAV (GPS) RWY 13, ORIG-A	AMDT: ORIG
				DATED: 01/20/2005

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.
FEEDER	CSG VORTAC	ICECA	1. TOWER (01-000618)	323508.00N/0850620.00W	945 (5D)	1000	AT555	2500
			2. TERRAIN	323500.00N/0850627.00W	699 (700)		AS1500	2200
INITIAL	JALVO	ICECA	3. AAO	324248.00N/0850245.00W	1106 (4E)	1000	AT394	2500
			4. TERRAIN	324248.00N/0850245.00W	906 (900)		AS1500	2400
INITIAL	MARVO	ICECA	5. TOWER (01-000477)	323520.28N/0851143.14W	1012 (2C)	1000	AT488	2500
			6. TERRAIN	323830.00N/0851333.00W	804 (800)		AS1500	2300
INTERMEDIATE	ICECA (IF/IAF)	HAVUP	7. TOWER (01-000523)	323539.00N/0851010.00W	986 (3C)	500	AT614	2100
			8. TERRAIN	323512.00N/0851042.00W	726 (700)		AS1000	1700
FINAL: LNAV	HAVUP	RW13	9. TREE	323345.00N/0850006.00W	689 (2C)	250		940
2. HOLD-IN-LIEU-OF-PT	ICECA	P-5	10. TOWER (01-001043)	323833.00N/0851413.00W	1332 (2C)	1000	AT132	2500
			11. TERRAIN	323836.00N/0851420.00W	931 (900)		AS1500	2400
3. MISSED APPROACH MAP:	RW13	ICECA				ASC		2500
			12. TOWER (01-000572)	322800.50N/0850320.00W	1404 (5D)	1000		2500
ELEV:	690		13. TERRAIN	323518.00N/0851118.00W	735 (700)		AS1500	2200
			14. TANK (13-001065)	322935.00N/0845601.00W	603 (1B)	300	SI	940
			14. TANK (13-001065)	322935.00N/0845601.00W	603 (1B)	300	SI	940
			15. POLE (13-003471)	323255.00N/0845538.00W	635 (2C)	300		940
			15. POLE (13-003471)	323255.00N/0845538.00W	635 (2C)	300	HAA	960

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	543
CATEGORY B	1.5 NM	450	543
CATEGORY C	1.7 NM	450	543
CATEGORY D	2.3 NM	550	563
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW13

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (13-000070)	034/ 23.5	2403 (2E)	3500					

CITY AND STATE	ELEVATION: 397 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
COLUMBUS, GA	COLUMBUS AIRPORT	RNAV	RNAV (GPS) RWY 13, ORIG-A	ASO

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
CSG TOWER ATL APP CON		N W S	OTHER: ASOS	SOURCE: KCSG
		F A A		DISTANCE: 0
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24
X V H F X U H F H F	LOCATION:			ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 06 (PCL)
	X	HIRL 24 (PCL), 06 (PCL)
	X	MIRL 31, 13
	X	REIL 31, 13, 24 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-2L 31 PAPI-4L 24 (PCL), 06 (PCL)
6. RUNWAY MARKINGS	BASIC BSC-G 31, 13	
	ALL WEATHER PIR-G 24, 06	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH 06	
	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	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: STEVEN L. SZUKALA (JOHN JOHNSON)	DATE: 10/31/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-351

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ABBREVIATED AMENDMENT FOR AIRPORT NAME CHANGE. PROCEDURE EVALUATED USING 8260.38A CRITERIA TO RETAIN PREVIOUSLY PUBLISHED SEGMENT DATA.

NO ADDITIONAL AIRSPACE REQUIRED.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:
RWY 13
20:1 PENETRATIONS
427 POLE (13-021263) 323112.14N-0845655.57W (25.72)
528 TREE (KCSG0075) 323125.50N-0845713.67W (24.25)
519 TREE (KCSG0073) 323124.35N-0845713.59W (19.02)
472 TREE (KCSG0043) 323116.84N-0845706.76W (18.19)
509 TREE (KCSG0046) 323122.90N-0845715.10W (8.26)
494 TREE (KCSG0045) 323120.48N-0845713.24W (6.98)
408 BUSH (KCSG0040) 323108.57N-0845659.36W (4.62)
421 POLE (13-021251) 323109.75N-0845702.67W (2.71)

34:1 PENETRATIONS
463 SIGN (13-021252) 323114.82N-0845712.56W (24.36)
552 POLE (13-021253) 323138.24N-0845739.44W (17.45)
426 SIGN (13-004207) 323111.00N-0845706.00W (7.38)
413 POLE (13-021250) 323110.34N-0845700.85W (5.92)

RWY 24 20:1 PENETRATIONS
417 BLDG (13-021249) 323126.72N-0845532.86W (4.18)

RWY 31 20:1 PENETRATIONS
379 POLE (13-021254) 323040.94N-0845615.92W (3.18)

FPT REPORTED THE FOLLOWING OBSTACLES REMOVED:
1. KCSG0015 402 TREE 323031.02N/0845648.16W
2. KCSG0017 417 TREE 323027.91N/0845654.01W
3. KCSG0020 461 TREE 323028.49N/0845707.96W
4. KCSG0024 465 TREE 323019.64N/0845712.49W
5. KCSG0025 461 TREE 323019.03N/0845715.68W
6. KCSG0028 420 TREE 323123.31N/0845528.30W
7. KCSG0032 480 TREE 323136.95N/0845518.10W

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COLUMBUS VORTAC **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 323654.91N/0850103.47W **TYPE:** WP

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

INFO ONLY

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	COLUMBUS	CSG	VORTAC	L							17500

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	NW	CSG	VORTAC	325.00	145.00	R	1-1 1/2		2400	17500	4	16
2	W	CSG	VORTAC	280.00	100.00	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (01-000572)	322800.50N/0850320.00W	1404	5D
UPN	230	TOWER (13-000445)	322729.00N/0845308.00W	1700	2D
1	200	AAO	324248.00N/0850245.00W	1106	4E
1	230	AAO	324324.00N/0850024.00W	1159	4E
2	200	TOWER (01-000477)	323520.28N/0851143.14W	1012	2C

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2500 FROM R-230 CW TO R-086.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRAVS (RNAV)			KATL	ATLANTA	GA (US)
DP	HONIE (RNAV)			KATL	ATLANTA	GA (US)
DP	NOVSS (RNAV)			KATL	ATLANTA	GA (US)
DP	PNUTT (RNAV)			KATL	ATLANTA	GA (US)
DP	THRSR (RNAV)			KATL	ATLANTA	GA (US)
EN ROUTE	V155					(US)
EN ROUTE	V20					(US)
EN ROUTE	V241					(US)
EN ROUTE	V321					(US)
EN ROUTE	V454					(US)
EN ROUTE	V56					(US)
IAP	ILS OR LOC RWY 36		2	KAUO	AUBURN	AL (US)
IAP	RNAV (GPS) RWY 11			KAUO	AUBURN	AL (US)
IAP	RNAV (GPS) RWY 29			KAUO	AUBURN	AL (US)
IAP	VOR RWY 29			KAUO	AUBURN	AL (US)
IAP	VOR/DME OR GPS-A			K7A3	LANETT	AL (US)
IAP	RNAV (GPS) RWY 13			K06A	TUSKEGEE	AL (US)
IAP	RNAV (GPS) RWY 31			K06A	TUSKEGEE	AL (US)
IAP	ILS OR LOC RWY 6			KCSG	COLUMBUS	GA (US)
IAP	RNAV (GPS) RWY 13			KCSG	COLUMBUS	GA (US)
IAP	RNAV (GPS) RWY 24			KCSG	COLUMBUS	GA (US)
IAP	RNAV (GPS) RWY 6			KCSG	COLUMBUS	GA (US)
IAP	VOR-A			KCSG	COLUMBUS	GA (US)
IAP	ILS OR LOC RWY 33 (ALT MA)		1	KLSF	FORT BENNING (COLUMBUS)	GA (US)
IAP	VOR/DME OR GPS RWY 15			KLSF	FORT BENNING (COLUMBUS)	GA (US)
IAP	ILS OR LOC RWY 31			KLGC	LAGRANGE	GA (US)
IAP	RNAV (GPS) RWY 3			KLGC	LAGRANGE	GA (US)
IAP	RNAV (GPS) RWY 31			KLGC	LAGRANGE	GA (US)
IAP	NDB RWY 09			KPIM	PINE MOUNTAIN	GA (US)
IAP	RNAV (GPS) RWY 09			KPIM	PINE MOUNTAIN	GA (US)
IAP	VOR -A			KPIM	PINE MOUNTAIN	GA (US)
STAR	EUGNE (RNAV)			KBHM	BIRMINGHAM	AL (US)
STAR	HONIE (RNAV)			KATL	ATLANTA	GA (US)
STAR	LA GRANGE			KATL	ATLANTA	GA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:

QUALITY CHECKED

UPDATED FIX USE.
NEW CONTROLLING OBSTACLES PAT 1 200K AND 230K PATTERNS.
NEW CONTROLLING OBSTACLES UNPLANNED HOLDING 200K AND 230K PATTERNS.
UNPLANNED HOLDING ALTITUDE RAISED FROM 2400 FT AND ABOVE TO 2500 FT AND ABOVE.
MOVED UNPLANNED HOLDING REMARK IN REMARKS BLOCK TO HOLDING RESTRICTIONS BLOCK.
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED IN REMARKS BLOCK.
UPDATED SIGNATURE AND DISTRIBUTION BLOCKS.

DEVELOPED BY:	**DATE:** 04/02/2010	**OFFICE:** AVN-110	**NAME:** PETER GETZ (DAVID JENNER)
APPROVED BY:	**DATE:** 08/09/2010	**OFFICE:** AVN-110	**NAME:** GEORGE DAVIS
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: CSG APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAVUP **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 323412.28N/0850145.60W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 13			KCSG	COLUMBUS	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
DELETED FAC1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 10/26/2012 **OFFICE:** AJV-351 **NAME:** STEVEN SZUKALA (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL APP CON
OTHER:

QUALITY CHECKED 9

RADIO FIX AND HOLDING DATA RECORD

NAME: ICECA **STATE:** AL **COUNTRY:** US

LATITUDE/LONGITUDE: 323821.02N/0850816.73W **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	NW		WP	308.89	128.89	R		4	2500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (01-001043)	323833.00N/0851413.00W	1332	3C

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) RWY 13		1	KCSG	COLUMBUS	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
DELETED FIX MAKEUP IAW 8260.19E PARA 8-41(F)3.
UPDATED PAT 1 MAX TEMPLATE FROM 5 TO 6.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 10/17/2012 **OFFICE:** AJV-351 **NAME:** STEVEN SZUKALA (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JALVO **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 324320.77N/0850350.52W **TYPE:** WP, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	COLUMBUS	CSG	VORTAC	L	338.90	339.90	6.83			2500	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V321	1				(US)
IAP	RNAV (GPS) RWY 13			KCSG	COLUMBUS	GA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
DELETED FAC2.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 10/26/2012 **OFFICE:** AJV-351 **NAME:** STEVEN SZUKALA (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL APP CON
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MARVO **STATE:** AL **COUNTRY:** US

LATITUDE/LONGITUDE: 323433.59N/0851257.39W **TYPE:** WP, INT

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	COLUMBUS	CSG	VORTAC	L	255.89	256.89		10.32		2100	17500
2	LAGRANGE	LGC	VORTAC	H	180.00	181.00		28.34		2100	17500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

REMARKS:
COLUMBUS (FAC 1) AND LAGRANGE (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V20-56	1, 2				(US)
IAP	RNAV (GPS) RWY 13			KCSG	COLUMBUS	GA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED DIST FROM FAC 1/2
DELETED FAC 3 AND ASSOCIATED DATA
LOWERED MRA FROM 2600 TO 2100
DELETED HOLDING PATTERNS AND ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 01/24/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** 06/15/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL APP CON
OTHER:

QUALITY CHECKED