US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
VARNM (IAF)	QUEDE (TF) (FB) (RNP 1.00)	094.78 / 3.14	6000
QUEDE	HITTT (TF) (FB) (RNP 1.00)	094.78 / 3.14	5000
HITTT (IF)	ZABEL (TF) (FB) (RNP 1.00)	094.85 / 3.14	4000
ZABEL	KIMMS (TF) (FB) (RNP 1.00)	094.85 / 4.08	2700
KIMMS (FAF)	RW09L (MAP) (TF) (FO)	094.93 / 5.03	
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 4000 DIRECT LEADR AND ON TRACK 092.39 TO CONNI AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT VARNM
3. FAC: 094.93 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: VARNM 6000, QUEDE 6000, HITTT 5000, ZABEL 4000, KIMMS 2700
5. DIST TO THLD FROM OM: 5.03 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2700 GS ALT AT: KIMMS 2700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 56.0 34:1 IS CLEAR
8. MSA FROM: RW09L 3100

ADDITIONAL FLIGHT DATA:
HOLD E, LT, 272.01 INBOUND.
CHART FAS OBST: 1092 SILO 333801N/0842738W, 1163 BLDG 333738N/0842736W
DISTANCE TO THLD FROM 356 HAT: 0.94 NM.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 1074.7 MSL (DO NOT CHART)
CHART LOC RWY 8L/R AND RWY 10.

MAG VAR: 5W EPOCH YEAR: 2015

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 0.11 DA	1375	4000	356	1375	4000	356	1375	4000	356	1375	4000	356			
RNP 0.15 DA	1425	4500	406	1425	4500	406	1425	4500	406	1425	4500	406			
RNP 0.30 DA	1481	6000	462	1481	6000	462	1481	6000	462	1481	6000	462			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -9C (16F) OR ABOVE 54C (130F).
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 6000, RNP 0.15 AND RNP 0.30 ALL CATS VISIBILITY TO 1 1/2.
CHART NOTE: GPS REQUIRED.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1026 TDZE: 1019 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
ATLANTA, GA	HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 9L, ORIG-D	AMDT: ORIG-C
				DATED 03/08/2012

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, KATL ATCT, ARPT MGR

FLIGHT CHECKED BY		
NAME: MICHAEL EDWARD WILSON	FIFO FIOG	DATE: 02/27/2007

DEVELOPED BY		
NAME: KELLY DEAN	FIFO AJV-352	DATE: 05/03/2012

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

CHANGES:

1. LINE 3 FAC CHANGED FROM 091.93 TO 094.93.
2. TERMINAL ROUTE FROM VARNM (IAF) TO QUEDE COURSE AND DISTANCE CHANGED FROM 091.78 / 3.14 TO 094.78 / 3.14.
3. TERMINAL ROUTE FROM QUEDE TO HITTT COURSE AND DISTANCE CHANGED FROM 091.78 / 3.14 TO 094.78 / 3.14.
4. TERMINAL ROUTE FROM HITTT (IF) TO ZABEL COURSE AND DISTANCE CHANGED FROM 091.85 / 3.14 TO 094.85 / 3.14.
5. TERMINAL ROUTE FROM ZABEL TO KIMMS COURSE AND DISTANCE CHANGED FROM 091.85 / 4.08 TO 091.85 / 4.08.
6. TERMINAL ROUTE FROM KIMMS (FAF) TO RW09L COURSE AND DISTANCE CHANGED FROM 091.93 / 5.03 TO 094.93 / 5.03.
7. MISSED APPROACH TRACK FROM LEADR TO CONNI CHANGED FROM 089.39 TO 092.39.
8. CHANGED HIGH TEMP LIMITATION FROM 46C (116F) TO 54C (130F).

REASONS:

1., 2., 3., 4., 5., 6., 7. KATL MAG/VAR CHANGED FROM 2W TO 5W.
8. NEW EMAIL GUIDANCE.

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW09L (MAP)	LEADR (DF) (FB)		
LEADR	CONNI (TF) (FO) (RNP 1.00)	092.39 / 27.68	4000

NOTES, (CONT.):
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 8L, ILS RWY 8L (CAT II), ILS RWY 8L (CAT III), ILS OR LOC RWY 8R, ILS RWY 8R (CAT II), ILS RWY 8R (CAT III), ILS OR LOC RWY 10, ILS RWY 10 (SA CAT I), ILS RWY 10 (CAT II), ILS RWY 10 (CAT III), RNAV (GPS) Y RWY 10.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1026 TDZE: 1019	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 9L, ORIG-D	AMDT: ORIG-C
				DATED: 03/08/2012

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) 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 - 424-18 - RNAV (RNP)

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CONNI K70    C   L N33391632W083490093                      W0051     NAR           CONNI
        SUSAEAENRT   HITTT K70    C     N33380394W084413342                      W0045     NAR           HITTT
        SUSAEAENRT   KIMMS K70    C     N33380474W084325438                      W0046     NAR           KIMMS
        SUSAEAENRT   LEADR K70    W     N33380493W084220835                      W0047     NAR           LEADR
        SUSAEAENRT   QUEDE K70    C     N33380340W084451909                      W0044     NAR           QUEDE
        SUSAEAENRT   VARNM K70    C     N33380275W084490476                      W0044     NAR           VARNM
        SUSAEAENRT   ZABEL K70    C     N33380436W084374775                      W0045     NAR           ZABEL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KATLK7AATL     0     123YHN33381212W084254031W005001026         1800018000C    MNAR    HARTSFIELD - JACKSON ATLANTA I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KATLK7FH09LZ AVARNM 010VARNMK7EA0E  A    IF                                  + 06000     18000                 A FS
        SUSAP KATLK7FH09LZ AVARNM 020QUEDEK7EA0E    010TF                                  + 06000                           A FS
        SUSAP KATLK7FH09LZ AVARNM 030HITTTK7EA0EE B 010TF                                  + 05000                           A FS
        SUSAP KATLK7FH09LZ H      010HITTTK7EA0E  I    IF                                  + 05000     18000                 A FS
        SUSAP KATLK7FH09LZ H      011ZABELK7EA0E S  010TF                                  + 04000                           A FS
        SUSAP KATLK7FH09LZ H      020KIMMSK7EA1E  F 010TF                                  + 02700                 RW09L K7PGA FS
        SUSAP KATLK7FH09LZ H      020KIMMSK7EA2W                                                 A031A152A112                  FS
        SUSAP KATLK7FH09LZ H      030RW09LK7PG0GY M 031TF                                    01075             -300          A FS
        SUSAP KATLK7FH09LZ H      040         0  M     CA                      0949        + 01426                           A FS
        SUSAP KATLK7FH09LZ H      050LEADRK7EA0E       DF                                                                   A FS
        SUSAP KATLK7FH09LZ H      060CONNIK7EA0EY   010TF                                  + 04000                           A FS
        SUSAP KATLK7FH09LZ H      070CONNIK7EA0EE  L   HM                      27200050    + 04000                           A FS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KATLK7GRW09L   0123900950 N33380494W084265268-0300    +028110101900005615 0IIHZK1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KATLK7SRW09LK7PG                0   18018003125                                                                    M
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QUALITY CHECKED

CITY AND STATE	ELEVATION: 1026 TDZE: 1019	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 9L, ORIG-D	AMDT: ORIG-C
				DATED: 03/08/2012

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:

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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
	VARNM	VARNM	010	IAF	IF		FB				AA 06000	
	VARNM	QUEDE	020		TF		FB	1.0			AA 06000	
	VARNM	HITTT	030		TF		FB	1.0			AA 05000	
		HITTT	010	FACF	IF		FB				AA 05000	
		ZABEL	011	SDF	TF		FB	1.0			AA 04000	
		KIMMS	020	FAF	TF		FB	1.0			AA 02700	
		RW09L	030	MAP	TF		FO	0.3			AT 01075	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		094.9(089.9T)		AA 01426	
	LEADR	050		DF		FB					
	CONNI	060		TF		FO	1.0			AA 04000	
	CONNI	070		HM	L	FO		272.0(267.0T)	005.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CONNI	N333916.32	W0834900.93	N3339.272	W08349.016
	HITTT	N333803.94	W0844133.42	N3338.066	W08441.557
	KIMMS	N333804.74	W0843254.38	N3338.079	W08432.906
	LEADR	N333804.93	W0842208.35	N3338.082	W08422.139
	QUEDE	N333803.40	W0844519.09	N3338.057	W08445.318
	VARNM	N333802.75	W0844904.76	N3338.046	W08449.079
	ZABEL	N333804.36	W0843747.75	N3338.073	W08437.796
	RW09L	N333804.94	W0842652.68	N3338.082	W08426.878

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW09L	01019	56

CITY AND STATE	ELEVATION: 1026 TDZE: 1019	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 9L, ORIG-D	AMDT: ORIG-C
				DATED: 03/08/2012

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	VARNM	QUEDE	1. TOWER (13-002285)	333744.00N/0845013.00W	1229 (5E)	1000	AC125 AT3646	6000
(RNP 1.00)			2. TERRAIN	334003.00N/0844824.00W	1090 (1100)		AS1500	2600
INITIAL: STEPDOWN	QUEDE	HITTT	3. AAO	334002.44N/0844629.31W	1259 (2C)	1000	AC20 AT2721	5000
(RNP 1.00)			4. TERRAIN	333941.46N/0844229.90W	1039 (1000)		AS1500	2500
INTERMEDIATE	HITTT	ZABEL	5. AAO	333941.46N/0844229.90W	1239 (2C)	614	AC20 AT2127	4000
(RNP 1.00)			6. TERRAIN	333721.00N/0844006.00W	988 (1000)		AS1500	2500
INTERMEDIATE: STEPDOWN	ZABEL	KIMMS	7. TOWER (13-002289)	333609.00N/0843317.00W	1331 (5E)	500	AC125 AT744	2700
(RNP 1.00)			8. TERRAIN	333609.00N/0843317.00W	1030 (1000)		AS1500	2500
FINAL: RNP 0.11	KIMMS	RW09L	9. SILO (OE0176)	333800.98N/0842738.04W	1092 (4D)	VEB	AC50 MA39	1375/356
FINAL: RNP 0.15	KIMMS	RW09L	9. SILO (OE0176)	333800.98N/0842738.04W	1092 (4D)	VEB	AC50 MA78	1425/406
FINAL: RNP 0.30	KIMMS	RW09L	10. BLDG (OE0203)	333738.39N/0842735.74W	1163 (4D)	VEB	AC50	1481/462
MISSED APPROACH	DA	LEADR (40:1)	11. TREE (KATL0086)	333814.89N/0842744.67W	1137 (1A)	ASC	AC3	
(RNP 0.11 FINAL)		LEVEL SURFACE	12. ATCT (13-003880)	333830.13N/0842518.07W	1357 (1A)	1000	AC3	2400
		AIRSPACE	13. TERRAIN	333836.00N/0842612.00W	1050 (1100)		AS1500	2600

2. PROCEDURE TURN

3. MISSED APPROACH
MAP: SEE ABOVE
ELEV: 1132/1168/1167

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: RW09L

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (13-003629)	039/ 07.9	2049 (2C)	3100					

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ATLANTA, GA	ELEVATION: 1026 AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 9L, ORIG-D	ASO

PART B - SUPPLEMENTAL DATA

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

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 10, 28, 08L, 27L, 09R
		(S) SALS
	X	MALS 27R MALSR 09L, 26L, 26R
	X	HIRL 09L, 10, 28, 08L, 08R, 27L, 26L, 26R, 09R, 27R
		MIRL
		REIL
	X	TDZ 10, 28, 08L, 27L, 26R, 09R
	X	C/L 09L, 10, 28, 08L, 08R, 27L, 26L, 26R, 09R, 27R
	X	OTHER (SPECIFY) PAPI-4R 09L, 27L, 27R PAPI-4L 08L, 08R, 26L, 26R, 09R
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 09L, 10, 28, 08L, 08R, 27L, 26L, 26R, 09R, 27R
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	09L, 10, 28, 08L, 08R, 27L, 26L, 26R, 09R, 27R
	MIDFIELD	09L, 10, 28, 08L, 08R, 27L, 26L, 26R, 09R, 27R
	ROLL OUT	09L, 10, 28, 08L, 08R, 27L, 26L, 26R, 09R, 27R
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1018.7
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 56.0
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: KELLY DEAN	DATE: 05/03/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

FLIGHT CHECK RDH 55.95 FT, (ORDER 8260.3B CHG 19).

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NO ADDITIONAL AIRSPACE REQUIRED.

FINAL RNP 0.11 AND 0.15 OBSTACLE (SILO OE0176): 2005-ASO-4108-OE.

FINAL RNP 0.30 AND RNP 0.15 MISSED APPROACH OBSTACLE (BLDG OE0203): 1998-ASO-7799-OE.

INTERMEDIATE SEGMENT VEB ROC:

GLIDEPATH ANGLE	3.00
LTP MSL ELEVATION	1018.7
TCH	56.0
OCS SLOPE	20.94
OCS ORIGIN DISTANCE	3677.72
OBSTACLE DISTANCE	79168.44
VEB ROC	614
GP MSL ALT AT OBSTACLE	5373.93
OCS MSL ALT AT OBSTACLE	4760.35

TITLE ESTABLISHED PER OPERATOR REQUEST.

PER ATL ATC: RNAV (RNP) RWY 9L PROCEDURE TO MIRROR ILS AND RNAV (GPS) RWY 9L PROCEDURE.

MSA OBSTACLE (TOWER 13-003629) UTILIZES 2C AC PER 1999-ASO-3660-OE.

ACT: -9.44C

VGSI DATA: 3.00/TCH 70.6

BARO-VNAV NA ABOVE 54C (130F).

RNP PROCEDURES RNP 0.11 AND 0.15 DEVELOPED AT USER REQUEST FOR FUTURE IMPLEMENTATION.

RNP SAAR AFS-420 VEB OCS ORIGIN AND SLOPE CALCULATIONS:

RNP	0.11	0.15	0.30
SEG ALT:	2700	2700	2700
LTP ELV:	1018.7	1018.7	1018.7
GP ANGLE:	3.00	3.00	3.00
TCH	56.0	56.0	56.0
ISA LOW	-22.39	-22.39	-22.39
WINGSPAN < 262			
LTP ORIGIN:	2393.50	2595.56	3677.72
OCS SLOPE RATIO:	20.97:1	20.96:1	20.94:1

EXCEPT FOR MISSED APPROACH (FAAO 8260.38), SAAAR FAAO 8260.52 CRITERIA USED.

80:1 CLEARWAY PLANE PENETRATED:
KATL0075 1027 OL ON LOC 333804.93N/0842702.27W,
KATL0076 1033 ANT ON BLDG 333807.42N/0842702.37W, GQS NOT PENETRATED.

PER ATL FPT: OBSTACLES 11-0253, 11-6089, AND 11-6091 REMOVED.
OBSTACLES 13-001045 AND 13-002840 AC 1A. OBSTACLE KATL0084 LOWERED TO 1128.

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
MISSED APPROACH	LEADR	CONNI (40:1)				ASC		4000
(RNP 0.11 FINAL)		LEVEL SURFACE	14. TOWER (13-001958)	333751.00N/0840454.00W	1417 (2C)	1000	AC20	2500
		AIRSPACE	15. TERRAIN	334115.00N/0840706.00W	1027 (1000)		AS1500	2500
MISSED APPROACH	DA	LEADR (40:1)	10.		1163 (4D)	ASC	AC50	
(RNP 0.15 FINAL)		LEVEL SURFACE	12.		1357 (1A)	1000	AC3	2400
		AIRSPACE	13		1050 (1100)		AS1500	2600
MISSED APPROACH	LEADR	CONNI (40:1)				ASC		4000
(RNP 0.15 FINAL)		LEVEL SURFACE	14.		1417 (2C)	1000	AC20	2500
		AIRSPACE	15.		1027 (1000)		AS1500	2500
MISSED APPROACH	DA	LEADR (40:1)				ASC		
(RNP 0.30 FINAL)		LEVEL SURFACE	12.		1357 (1A)	1000	AC3	2400
		AIRSPACE	16. TERRAIN	333854.00N/0842657.00W	1060 (1100)		AS1500	2600
MISSED APPROACH	LEADR	CONNI (40:1)				ASC		4000
(RNP 0.30 FINAL)		LEVEL SURFACE	14.		1417 (2C)	1000	AC20	2500
		AIRSPACE	15.		1027 (1000)		AS1500	2500

3. MISSED APPROACH	
MAP:	
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:

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
ATLANTA, GA	ELEVATION: 1026 AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 9L, ORIG-D	ASO

PART B - SUPPLEMENTAL DATA

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

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

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

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

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: CONNI **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333916.32N/0834900.93W **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	ATLANTA	ATL	VORTAC	H	092.01	087.01	31.00	31.00		2500	17500
2	MACON	MCN	VORTAC	H	350.62	351.62		58.32		4000	17500
3	ATHENS	AHN	VORTAC	L	234.64	234.64		30.23		2500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MCN	VORTAC	R-351	59	40	175

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	E	ATL	VORTAC	092.01	272.01	L	1		4000	6000	6	7
2	E		WP	092.01	272.01	L		5	4000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (13-001976)	334243.00N/0834153.00W	1268	2C
2	200	TOWER (13-001976)	334243.00N/0834153.00W	1268	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
ATLANTA (FAC 1) AND MACON (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V18	1, 2				
IAP	VOR/DME RNAV OR GPS RWY 9			KAHN	ATHENS	GA (US)
IAP	ILS OR LOC RWY 9L	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS OR LOC RWY 9R	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 9L (SCP)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 9R (SCP)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS RWY 9R (CAT II)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS RWY 9R (CAT III)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9L		2	KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9R		2	KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L		2	KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9R		2	KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
CHANGED FAC 1 MAG BRG FROM 087.01 TO 092.01.
HOLDING PATTERN 1 CRS 087.01/267.01 CHANGED TO 092.01/272.01.
HOLDING PATTERN 2 CRS 089.01/269.01 CHANGED TO 092.01/272.01.

DEVELOPED BY: **DATE:** 04/30/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL/ATL
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HITTT **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333803.94N/0844133.42W **TYPE:** WP, RADAR, 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	ATLANTA	I-HZK	LOC/DME		274.99	269.99	14.04	14.39		2700	5000
2	FLANC	FT	LOM		204.33	199.33		8.11		2700	5000

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

REMARKS:
ATLANTA (FAC 1) AND FLANC (FAC 2) USED TO ESTABLISH FIX COORDINATES
FAC 1 GLIDESLOPE ESV ON FILE: W CRS/13 NM, 2700-5000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 9L	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 9L (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9L			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DIST FROM FAC VALUES TO FAC 1 AND FAC 2.
CHANGED FAC 1 MAG BRG FROM 271.99 TO 274.99.
CHANGED FAC 2 MAG BRG FROM 201.33 TO 204.33.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 04/30/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: KIMMS **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333804.74N/0843254.38W **TYPE:** WP, RADAR, 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	ATLANTA	I-HZK	LOC/DME		274.99	269.99	6.82	7.17	43570	2700	5500
2	FLANC	FT	LOM		154.31	149.31		8.89		2700	5500

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

REMARKS:
ATLANTA (FAC 1) AND FLANC (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 9L	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM 9L (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9L			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DIST FROM FAC VALUES TO FAC 1 AND FAC 2.
CHANGED FAC 1 MAG BRG FROM 271.99 TO 274.99.
CHANGED FAC 2 MAG BRG FROM 151.31 TO 154.31.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 05/01/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: LEADR **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333804.93N/0842208.35W **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 9L			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
DELETED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/02/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL/ATL
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: QUEDE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333803.40N/0844519.09W **TYPE:** WP, RADAR, 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	ATLANTA	I-HZK	LOC/DME		274.99	269.99	17.18	17.53		2700	6000
2	FLANC	FT	LOM		222.24	217.24		9.63		2700	6000

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

REMARKS:
ATLANTA (FAC 1) AND FLANC (FAC 2) USED TO ESTABLISH FIX COORDINATES
ESV FAC 1 GLIDESLOPE ON FILE: W CRS/16 NM, 2700-6000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 9L	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 9L (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9L			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DIST FROM FAC VALUES TO FAC 1 AND FAC 2.
FAC 1 MAG BRG CHANGED FROM 271.99 TO 274.99.
FAC 2 MAG BRG CHANGED FROM 219.24 TO 222.24.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 04/30/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: VARNM **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333802.75N/0844904.76W **TYPE:** WP, RADAR, 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	ATLANTA	I-HZK	LOC/DME		274.99	269.99	20.32	20.67		2700	7000
2	FLANC	FT	LOM		234.46	229.46		11.80		2700	7000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-HZK	LOC/DME	R-275	21	2700	7000

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

REMARKS:
ATLANTA (FAC 1) AND FLANC (FAC 2) USED TO ESTABLISH FIX COORDINATES
FIX LOCATED ABEAM VINII (IAF) RWY 9R PER ATL ATC

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 9L	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 9L (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9L			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DIST FROM FAC VALUES TO FAC 1 AND FAC 2.
CHANGED FAC 1 MAG BRG FROM 271.99 TO 274.99.
CHANGED FAC 2 MAG BRG FROM 231.46 TO 234.46.
DELETED FAC 3.
UPDATED ESV, REMARKS, AND FIX USE.

DEVELOPED BY: **DATE:** 04/30/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZABEL **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333804.36N/0843747.75W **TYPE:** WP, RADAR, 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	ATLANTA	I-HZK	LOC/DME		274.99	269.99	10.90	11.25		2700	5500
2	FLANC	FT	LOM		181.60	176.60		7.66		2700	5500

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

REMARKS:
ATLANTA (FAC 1) AND FLANC (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 9L	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 9L (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 9L			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 9L			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DIST FROM FAC VALUES TO FAC 1 AND FAC 2.
CHANGED FAC 1 MAG BRG FROM 271.99 TO 274.99.
CHANGED FAC 2 MAG BRG FROM 178.60 TO 181.60.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 04/30/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL/ATL
OTHER: