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
HRLES (IAF)	HATHH (TF) (FB) (RNP 1.00)	275.23 / 3.14	6000
HATHH	HOYYT (TF) (FB) (RNP 1.00)	275.23 / 3.14	5000
HOYYT (IF)	HOKIE (TF) (FB) (RNP 1.00)	275.16 / 3.14	4000
HOKIE	LIAMS (TF) (FB) (RNP 1.00)	275.16 / 4.08	2700
LIAMS (FAF)	RW27R (TF) (FO)	275.08 / 5.16	
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 4000 DIRECT ROTLE AND ON TRACK 272.26 TO TEMPO AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT HRLES
3. FAC: 275.08 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: HRLES 6000, HATHH 6000, HOYYT 5000, HOKIE 4000, LIAMS 2700
5. DIST TO THLD FROM OM: 5.16 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2700 GS ALT AT: LIAMS 2700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.8# 34:1 IS NOT CLEAR
8. MSA FROM: RW27R 3100

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 093.15 INBOUND.
CHART FAS OBST: 1056 POLE 333812N/0842349W,
1137 ROD ON OL POLE 333822N/0842329W,
1170 ANT 333729N/0842306W
DISTANCE TO THLD FROM 315 HAT: 0.84 NM.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 1034.0 MSL (DO NOT CHART)
CHART LOC RWY 26 L/R AND 28.

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	1300	4000	315	1300	4000	315	1300	4000	315	1300	4000	315			
RNP 0.11 DA	1373	5000	388	1373	5000	388	1373	5000	388	1373	5000	388			
RNP 0.15 DA	1399	6000	414	1399	6000	414	1399	6000	414	1399	6000	414			

NOTES:
CHART NOTE: RNP 0.11* MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 300 FEET PER NM TO 1700.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -9C (16F) OR ABOVE 54C (130F).
CHART NOTE: FOR INOPERATIVE MALS, INCREASE RNP 0.11* ALL CATS VISIBILITY TO RVR 5000, RNP 0.11 ALL CATS VISIBILITY TO RVR 6000, RNP 0.15 ALL CATS VISIBILITY TO 1 1/2, RNP 0.30 ALL CATS VISIBILITY
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1026 TDZE: 985	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 27R, 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: 05/08/2012
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. LINE 3 FAC CHANGED FROM 272.08 TO 275.08.
2. DELETED VISIBILITY REDUCTION BY HELICOPTERS NA NOTE.
3. TERMINAL ROUTE FROM HRLES (IAF) TO HATHH COURSE AND DISTANCE CHANGED FROM 272.23 / 3.14 TO 275.23 / 3.14.
4. TERMINAL ROUTE FROM HATHH TO HOYYT COURSE AND DISTANCE CHANGED FROM 272.23 / 3.14 TO 275.23 / 3.14.
5. TERMINAL ROUTE HOYYT (IF) COURSE AND DISTANCE CHANGED FROM 272.16 / 3.14 TO 275.16 / 3.14.
6. MISSED APPROACH TRACK TO TEMPO CHANGED FROM 269.26 TO 272.26.
7. TERMINAL ROUTE FROM HOKIE TO LIAMS COURSE AND DISTANCE CHANGED FROM 272.16 / 4.08 TO 275.16 / 4.08.
8. TERMINAL ROUTE FROM LIAMS (FAF) TO RW27R COURSE AND DISTANCE CHANGED FROM 272.08 / 5.16 TO 275.08 / 5.16.
9. ADDED SA CAT I/II TO THE SIMULTANEOUS NOTE.
10. CHANGED HIGH TEMP LIMITATION FROM 46C (116F) TO 54C (130F).

REASONS:

1., 3., 4., 5., 6., 7., 8. KATL MAG/VAR CHANGED FROM 2W TO 5W.
2. NOT REQUIRED.
9. CORRESPOND WITH ADDING SA CAT I/II TO THE RWY 26R PROCEDURE.
10. NEW EMAIL GUIDANCE.

QUALITY 4 CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW27R (MAP)	ROTLE (DF) (FB)		
ROTLE	TEMPO (TF) (FO) (RNP 1.00)	272.26/27.72	4000

MINIMUMS CONT.

AUTHORIZATION REQUIRED

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
RNP 0.30 DA	1484	1 1/2	499	1484	1 1/2	499	1484	1 1/2	499	1484	1 1/2	499			

NOTES, (CONT.):
TO 1 3/4.
CHART NOTE: GPS REQUIRED.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 26L, ILS OR LOC RWY 26R, ILS RWY 26R (SA CAT I), ILS RWY 26R (SA CAT II), RNAV (GPS Y RWY 28, ILS OR LOC RWY 28, ILS RWY 28 (CAT II).
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 1026 TDZE: 985	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 27R, 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)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HATHH K70    C     N33380321W084055673                      W0049     NAR           HATHH
        SUSAEAENRT   HOKIE K70    C     N33380424W084132807                      W0048     NAR           HOKIE
        SUSAEAENRT   HOYYT K70    C     N33380378W084094240                      W0049     NAR           HOYYT
        SUSAEAENRT   HRLES K70    W     N33380252W084021106                      W0050     NAR           HRLES
        SUSAEAENRT   LIAMS K70    C     N33380467W084182144                      W0048     NAR           LIAMS
        SUSAEAENRT   ROTLE K70    W     N33380492W084291017                      W0046     NAR           ROTLE
        SUSAEAENRT   TEMPO K70    C   L N33364069W085021909                      W0042     NAR           TEMPO

                 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 KATLK7FH27RZ AHRLES 010HRLESK7EA0E  A    IF                                + 06000     18000                A FS
        SUSAP KATLK7FH27RZ AHRLES 020HATHHK7EA0E    010TF                                + 06000                          A FS
        SUSAP KATLK7FH27RZ AHRLES 030HOYYTK7EA0EE B 010TF                                + 05000                          A FS
        SUSAP KATLK7FH27RZ H      010HOYYTK7EA0E  I    IF                                + 05000     18000                A FS
        SUSAP KATLK7FH27RZ H      011HOKIEK7EA0E S  010TF                                + 04000                          A FS
        SUSAP KATLK7FH27RZ H      020LIAMSK7EA1E  F 010TF                                + 02700                RW27R K7PGA FS
        SUSAP KATLK7FH27RZ H      020LIAMSK7EA2W                                              A031A152A112                   FS
        SUSAP KATLK7FH27RZ H      030RW27RK7PG0GY M 031TF                                  01034             -300          A FS
        SUSAP KATLK7FH27RZ H      040         0  M     CA                       2751      + 01426                          A FS
        SUSAP KATLK7FH27RZ H      050ROTLEK7EA0E       DF                                                                  A FS
        SUSAP KATLK7FH27RZ H      060TEMPOK7EA0EY   010TF                                + 04000                          A FS
        SUSAP KATLK7FH27RZ H      070TEMPOK7EA0EE  R   HM                     09320040  + 04000                          A FS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KATLK7GRW27R   0123902750 N33380493W084243207+0300    +026870097805005615 0IIAFA1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KATLK7SRW27RK7PG               0   18018003125                                                                        M
```

CITY AND STATE	ELEVATION: **1026** TDZE: **985**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: **HARTSFIELD - JACKSON ATLANTA INTL**	**RNAV**	**RNAV (RNP) Z RWY 27R, ORIG-D**	AMDT: **ORIG-C**
				DATED: **03/08/2012**

QUALITY 4 CHECKED

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
	HRLES	HRLES	010	IAF	IF		FB				AA 06000	
	HRLES	HATHH	020		TF		FB	1.0			AA 06000	
	HRLES	HOYYT	030		TF		FB	1.0			AA 05000	
		HOYYT	010	FACF	IF		FB				AA 05000	
		HOKIE	011	SDF	TF		FB	1.0			AA 04000	
		LIAMS	020	FAF	TF		FB	1.0			AA 02700	
		RW27R	030	MAP	TF		FO	0.3			AT 01034	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		275.1(270.1T)		AA 01426	
	ROTLE	050		DF		FB					
	TEMPO	060		TF		FO	1.0			AA 04000	
	TEMPO	070		HM	R	FO		093.2(088.2T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HATHH	N333803.21	W0840556.73	N3338.054	W08405.946
	HOKIE	N333804.24	W0841328.07	N3338.071	W08413.468
	HOYYT	N333803.78	W0840942.40	N3338.063	W08409.707
	HRLES	N333802.52	W0840211.06	N3338.042	W08402.184
	LIAMS	N333804.67	W0841821.44	N3338.078	W08418.357
	ROTLE	N333804.92	W0842910.17	N3338.082	W08429.170
	TEMPO	N333640.69	W0850219.09	N3336.678	W08502.318
	RW27R	N333804.93	W0842432.07	N3338.082	W08424.535

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27R	00978	56

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1026 TDZE: 985	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ATLANTA, GA	AIRPORT NAME: HARTSFIELD - JACKSON ATLANTA INTL	RNAV	RNAV (RNP) Z RWY 27R, 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	HRLES	HATHH	1. TOWER (13-001958)	333751.00N/0840454.00W	1417 (2C)	1000	AC20 AT3563	6000
			2. TERRAIN	334003.00N/0840315.00W	936 (900)		AS1500	2400
INITIAL: STEPDOWN	HATHH	HOYYT	1. TOWER (13-001958)	333751.00N/0840454.00W	1417 (2C)	1000	AC20 AT2563	5000
			3. TERRAIN	333957.00N/0840703.00W	922 (900)		AS900	1800
INTERMEDIATE	HOYYT	HOKIE	4. AAO	333716.04N/0841436.36W	1179 (2C)	500	AC20 AT2301	4000
			5. TERRAIN	333742.00N/0841321.00W	932 (900)		AS1500	2400
INTERMEDIATE:	HOKIE	LIAMS	6. AAO	333858.00N/0841527.73W	1259 (2C)	500	AC20 AT921	2700
STEPDOWN			7. TERRAIN	333842.00N/0841542.00W	968 (1000)		AS1500	2500
FINAL: RNP 0.11*	LIAMS	RW27R	8. POLE (OE0132)	333811.93N/0842349.16W	1056 (4D)	VEB	AC50	1300/315
FINAL: RNP 0.11	LIAMS	RW27R	8. POLE (OE0132)	333811.93N/0842349.16W	1056 (4D)	VEB	AC50 MA73	1373/388
FINAL: RNP 0.15	LIAMS	RW27R	9. ROD POLE	333822.06N/0842329.32W	1137 (1A)	VEB	AC3 MA51	1399/414
FINAL: RNP 0.30	LIAMS	RW27R	10. ANT (KATL0153)	333729.06N/0842306.04W	1170 (1A)	VEB	AC3 MA43	1484/499
MISSED APPROACH	DA	ROTLE (26.65:1)				ASC		
(RNP 0.11* FINAL)		LEVEL SURFACE	11. ATCT (13-003880)	333830.13N/0842518.07W	1357 (1A)	1000	AC3	2400
		AIRSPACE	12. TERRAIN	333900.00N/0842700.00W	1063 (1100)		AS1500	2600
2. PROCEDURE TURN	NA							
3. MISSED APPROACH — MAP:	SEE ABOVE							
3. MISSED APPROACH — ELEV:	1060/1127/1141/1167							

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: RW27R

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (13-003629)	025/ 07.0	2049 (2C)	3100					

ORIGINAL 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 27R, 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: 978.2

DISTANCE FROM RWY: — ELEV GP ANTENNA:

THRESHOLD CROSSING HEIGHT: 55.8

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: 05/08/2012

TITLE: AERONAUTICAL INFORMATION SPECIALIST — OFFICE: AJV-352

PART C - REMARKS:

FLIGHT CHECK RDH 55.80 FT, (ORDER 8260.3B CHG 19).

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NO ADDITIONAL AIRSPACE REQUIRED.

TITLE ESTABLISHED PER OPERATOR REQUEST.

PER ATL ATC: RNAV (RNP) TO MIRROR CURRENT ILS OR LOC AND RNAV (GPS) RWY 27R.

VFYD MSA OBSTACLE TOWER 2C AC AND LAT/LONG 334440.90N/0842135.70W PER 1999-ASO-3660-OE.

VFYD FINAL *RNP 0.11 OBSTACLE 1056 TRANSMISSION LINE POLE, 4D AC PER 2002-ASO-3757-OE.

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

RNP SAAAR AFS-420 VEB OCS ORIGIN AND SLOPE CALCULATIONS.

RNP:	0.11*	0.11	0.15	0.30
SEG ALT:	2700	2700	2700	2700
LTP EL:	978.2	978.2	978.2	978.2
GP ANGLE:	3.00	3.00	3.00	3.00
TCH:	55.8	55.8	55.8	55.8
ISA LOW:	-22.39	-22.39	-22.39	-22.39
WINGSPAN < 262				
LTP ORIGIN:	2393.36	2393.36	2595.67	3678.76
OCS SLOPE RATION:	20.97:1	20.97:1	20.96:1	20.94:1

EXCEPT FOR MISSED APPROACH (FAAO 8260.39), SAAAR FAAO 8260.52 CRITERIA USED.

PAR 251, 34:1 PENETRATION:
OE0053 (2002 ASO 3754 OE), AC 4D 1010 TRANSMISSION LINE POLE 333811.92N/0842406.34W

8260.52 FORMULA 4-10, 4-11 FOR *RNP 0.11 DA MISSED APPROACH CLIMB GRADIENT AND CLIMB GRADIENT TERMINATION ALTITUDE USED REFERENCE OBSTACLE 13-003880.

FORMULA 4-10 MA CLIMB GRADIENT:
8000 (1360 - 1060.61 DIVIDED BY 7991.54 = 299.71 ROUNDED TO 300 FEET PER NM CG.

FORMULA 4-11 CG TERMINALTION ALTITUDE:
(1300 - 50) + 370 x (7991.54 DIVIDED BY 6076.12) = 1644.57 ROUNDED TO 1700.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
MISSED APPROACH	ROTLE	TEMPO (40:1)				ASC		4000
(RNP 0.11* FINAL)		LEVEL SURFACE	13. TOWER (13-001534)	333627.00N/0845412.00W	1959 (2C)	1000	AC20	3000
		AIRSPACE	14. TERRAIN	333354.00N/0850103.00W	1372 (1400)		AS1500	2900
MISSED APPROACH	DA	ROTLE (40:1)	11.		1357 (1A)	ASC	AC3	
(RNP 0.11 FINAL)		LEVEL SURFACE	11.		1357 (1A)	1000	AC3	2400
		AIRSPACE	12.		1063 (1100)		AS1500	2600
MISSED APPROACH	ROTLE	TEMPO (40:1)				ASC		4000
(RNP 0.11 FINAL)		LEVEL SURFACE	13.		1959 (2C)	1000	AC20	3000
		AIRSPACE	14.		1372 (1400)		AS1500	2900
MISSED APPROACH	DA	ROTLE (40:1)	9.		1137 (1A)	ASC	AC3	
(RNP 0.15 FINAL)		LEVEL SURFACE	11.		1357 (1A)	1000	AC3	2400
		AIRSPACE	12.		1063 (1100)		AS1500	2600
MISSED APPROACH	ROTLE	TEMPO (40:1)				ASC		4000
(RNP 0.15 FINAL)		LEVEL SURFACE	13.		1959 (2C)	1000	AC20	3000
		AIRSPACE	14.		1372 (1400)		AS1500	2900
MISSED APPROACH	DA	ROTLE (40:1)	10.		1170 (1A)	ASC	AC3	
(RNP 0.30 FINAL)		LEVEL SURFACE	11.		1357 (1A)	1000	AC3	2400
		AIRSPACE	12.		1063 (1100)		AS1500	2600
MISSED APPROACH	ROTLE	TEMPO (40:1)				ASC		4000
(RNP 0.30 FINAL)		LEVEL SURFACE	13.		1959 (2C)	1000	AC20	3000
		AIRSPACE	14.		1372 (1400)		AS1500	2900

3. MISSED APPROACH								
	MAP:							
	ELEV:							

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

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

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 27R, ORIG-D	ASO

PART B - SUPPLEMENTAL DATA

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

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

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

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: HATHH **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333803.21N/0840556.73W **TYPE:** WP, RADAR, 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	ATLANTA	I-AFA	LOC		095.02	090.02		17.61		4000	6000
2	PEACHTREE	PDK	VOR/DME	L	147.30	145.30		17.57		4000	17500

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

REMARKS:
PEACHTREE (FAC 2) AND ATLANTA (FAC 1) USED TO ESTABLISH FIX COORDINATES
ESV: I-AFA GLIDE SLOPE R-095 16NM 2700-6000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 27R	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27R (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27R			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R			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 092.02 TO 095.02.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 05/04/2012 **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
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HOKIE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333804.24N/0841328.07W **TYPE:** WP, RADAR, 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	ATLANTA	I-AFA	LOC		095.02	090.02		11.33		2700	5500
2	PEACHTREE	PDK	VOR/DME	L	167.54	165.54		14.91		2700	17500

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 27R	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27R	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27R			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **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 092.02 TO 095.02.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 05/04/2012 **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
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: HOYYT **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333803.78N/0840942.40W **TYPE:** WP, RADAR, 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	ATLANTA	I-AFA	LOC		095.02	090.02		14.74		2700	5000
2	PEACHTREE	PDK	VOR/DME	L	156.58	154.58		15.99		2700	17500

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

REMARKS:
PEACHTREE (FAC 2) AND ATLANTA (FAC 1) USED TO ESTABLISH FIX COORDINATES
ESV - FAC 1 GLIDE SLOPE R-095 13NM 2700-5000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 27R	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27R (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27R			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R			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.
UPDATED FAC 1 MAG BRG FROM 092.02 TO 095.02.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 05/03/2012 **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
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HRLES **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333802.52N/0840211.06W **TYPE:** WP, RADAR

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	ILS OR LOC RWY 27R			KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27R (SCP)			KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27R			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R			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 AND FAC 2.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 05/04/2012 **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
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LIAMS **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333804.67N/0841821.44W **TYPE:** WP, RADAR, 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	ATLANTA	I-AFA	LOC		095.02	090.02		7.25	44038	2700	5500
2	PEACHTREE	PDK	VOR/DME	L	183.42	181.42		14.44		2700	17500

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 27R	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27R (SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27R			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **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 092.02 TO 095.02.
DELETED FAC 3.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 05/04/2012 **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
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROTLE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333804.92N/0842910.17W **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 27R			KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R			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:** 05/04/2012 **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 ATCT
OTHER: ATL APP CON

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TEMPO **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333640.69N/0850219.09W **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	ROME	RMG	VORTAC	H	172.01	173.01	33.26	33.26		4000	17500
2	ATLANTA	ATL	VORTAC	H	273.15	268.15	30.26	30.26		4000	17500
3	LAGRANGE	LGC	VORTAC	H	013.00	014.00	34.71	34.71		4000	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	W	ATL	VORTAC	273.15	093.15	R	1		4000	6000	6	7
2	W		WP	273.15	093.15	R		4	4000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (13-002758)	333354.00N/0850103.00W	1621	5E
2	200	TOWER (13-002758)	333354.00N/0850103.00W	1621	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GEETK (RNAV)			KATL	ATLANTA	GA (US)
EN ROUTE	V18	1, 2				(US)
IAP	ILS OR LOC RWY 27L	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS OR LOC RWY 27R	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27L (CAT II)(SCP)	1, 2		KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27L (SCP)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS PRM RWY 27R (SCP)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	ILS RWY 27L (CAT II)	1, 2	1	KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27L		2	KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 27R		2	KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27L		2	KATL	ATLANTA	GA (US)
IAP	RNAV (RNP) Z RWY 27R		2	KATL	ATLANTA	GA (US)
IAP	RNAV (GPS) Y RWY 8			KFTY	ATLANTA	GA (US)
IAP	RNAV (GPS) A			KPUJ	ATLANTA	GA (US)
IAP	RNAV (GPS) RWY 1			KVPC	CARTERSVILLE	GA (US)
IAP	RNAV (GPS) RWY 10			K20GA	VILLA RICA	GA (US)
STAR	DIFFI	1, 2, 3		KFTY	ATLANTA	GA (US)
STAR	DIFFI	1, 2, 3		KPDK	ATLANTA	GA (US)
STAR	DIFFI	1, 2, 3		KPUJ	ATLANTA	GA (US)
STAR	DIFFI	1, 2, 3		KRYY	ATLANTA	GA (US)
STAR	DIFFI	1, 2, 3		K47A	CANTON	GA (US)
STAR	DIFFI	1, 2, 3		KVPC	CARTERSVILLE	GA (US)
STAR	DIFFI	1, 2, 3		KGVL	GAINESVILLE	GA (US)
STAR	DIFFI	1, 2, 3		KLZU	LAWRENCEVILLE	GA (US)
STAR	DIFFI	1, 2, 3		KMGE	MARIETTA	GA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FAC 2 MAG BRG FROM 268.15 TO 273.15.
UPDATED HOLDING PATTERN 1 CRS FROM 268.15/88.15 TO 273.15/093.15.
UPDATED HOLDING PATTERN 2 CRS FROM 270.15/090.15 TO 273.15/093.15.
UPDATED FIX USE AND REMARKS.

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

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

QUALITY CHECKED

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: ATL APP CON
OTHER: ATL ATCT, K20GA AMGR

QUALITY CHECKED