Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 03/26/2012	Task #: 2012032623347902002	Request #: 20120326233479
Procedure: STAR EVULE (RNAV) ONE ATLANTA GA KATL		Airport ID: KATL	Airport: HARTSFIELD - JACKSON ATLANTA INTL		Reimbursable #:
City: ATLANTA	ST: GA	GPS #:		Estimated Chart Date: 05/02/2013	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: PETER GUIMOND			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	10/10/2012	12/11/2012	MARLON ROBINSON	
QA:	12/11/2012	01/02/2013	CASIMIR TABAKA	
Liaison:	01/02/2013		Spurlin	DME/DME

DME / DME ?

ESV REQUEST INCLUDED

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pks 3.f7

ATLANTA, GA HARTSFIELD - JACKSON ATLANTA INTL (KATL) EVULE ONE (RNAV) (STAR) ENROUTE-YES FC: 3.5.13 PUB: 5.2.13

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): DIRTY, REV 4; BBOBB, ORIG; EVULE, ORIG; FRYES, ORIG; GAASS, ORIG; KLOWD, ORIG; PLEES, REV 4; REAKS, ORIG; SHANE, REV 4; SHELE, ORIG; SHURT, ORIG; SMELY, ORIG; SNEVE, ORIG; SNOWBIRD (SOT) VTAC, REV 6; SPAYD-INT, REV 5; STUUF, ORIG; SUMNR, ORIG; TRAPE, ORIG; (INFO ONLY) CULME, REV 2; GOBME, REV 2; HUBEL, REV 2; CHARLESTON (HVQ) VTAC, REV 7; KONGO-INT, REV 6.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

EVULE ONE ARRIVAL (RNAV)

ST-26 (FAA)

ATIS
119.65
ATLANTA APP CON
127.9 379.9

PROTOTYPE-NOT FOR NAVIGATION

CHARLESTON TRANSITION (HVQ.EVULE1):
SPAYD TRANSITION (SPAYD.EVULE1):

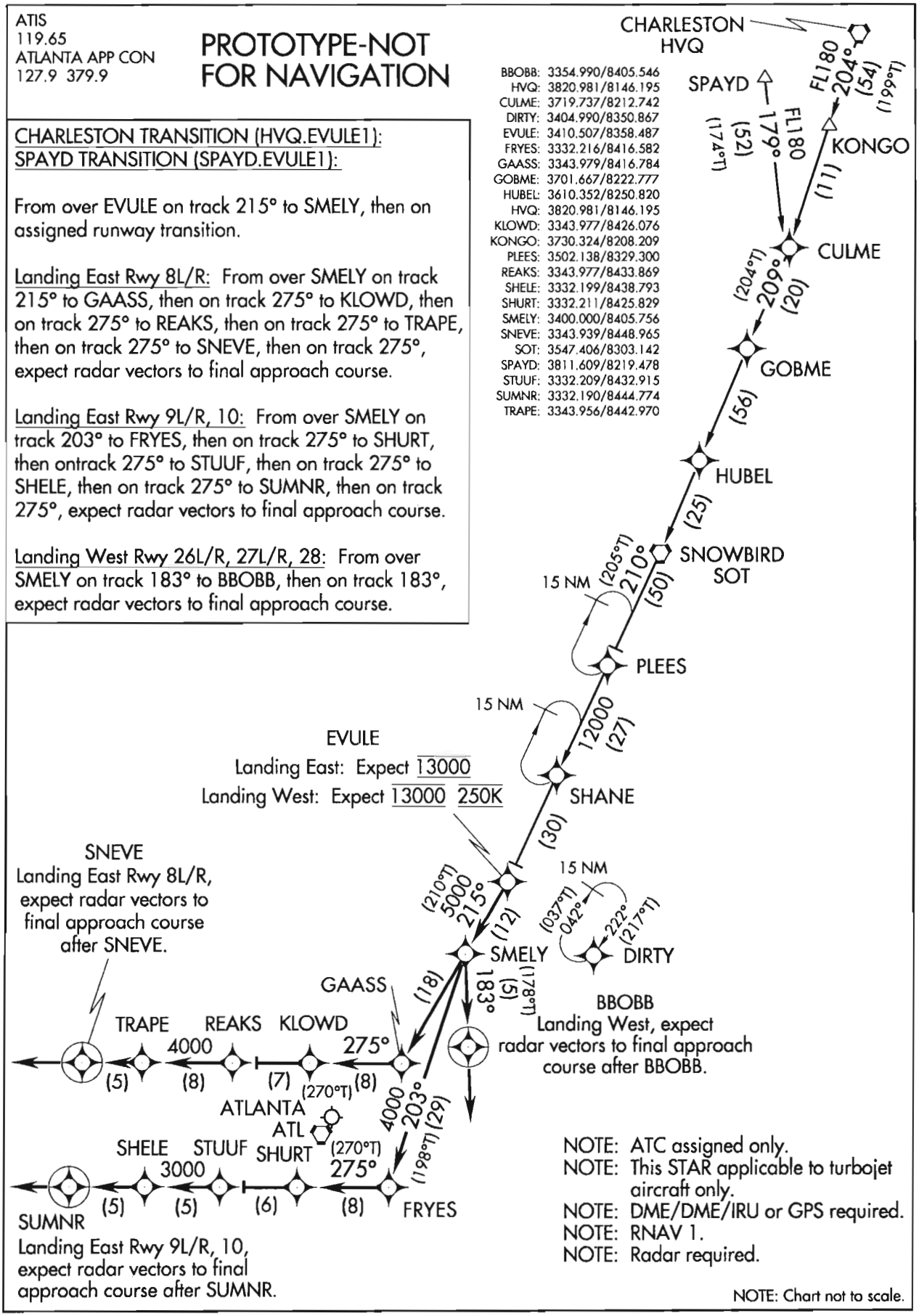
From over EVULE on track 215° to SMELY, then on assigned runway transition.

Landing East Rwy 8L/R: From over SMELY on track 215° to GAASS, then on track 275° to KLOWD, then on track 275° to REAKS, then on track 275° to TRAPE, then on track 275° to SNEVE, then on track 275°, expect radar vectors to final approach course.

Landing East Rwy 9L/R, 10: From over SMELY on track 203° to FRYES, then on track 275° to SHURT, then ontrack 275° to STUUF, then on track 275° to SHELE, then on track 275° to SUMNR, then on track 275°, expect radar vectors to final approach course.

Landing West Rwy 26L/R, 27L/R, 28: From over SMELY on track 183° to BBOBB, then on track 183°, expect radar vectors to final approach course.

BBOBB: 3354.990/8405.546
HVQ: 3820.981/8146.195
CULME: 3719.737/8212.742
DIRTY: 3404.990/8350.867
EVULE: 3410.507/8358.487
FRYES: 3332.216/8416.582
GAASS: 3343.979/8416.784
GOBME: 3701.667/8222.777
HUBEL: 3610.352/8250.820
HVQ: 3820.981/8146.195
KLOWD: 3343.977/8426.076
KONGO: 3730.324/8208.209
PLEES: 3502.138/8329.300
REAKS: 3343.977/8433.869
SHELE: 3332.199/8438.793
SHURT: 3332.211/8425.829
SMELY: 3400.000/8405.756
SNEVE: 3343.939/8448.965
SOT: 3547.406/8303.142
SPAYD: 3811.609/8219.478
STUUF: 3332.209/8432.915
SUMNR: 3332.190/8444.774
TRAPE: 3343.956/8442.970



NOTE: ATC assigned only.
NOTE: This STAR applicable to turbojet aircraft only.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Radar required.

NOTE: Chart not to scale.

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LAGRANGE	City : LAGRANGE	Ident : LGC	State : GA
Type/Class : TACR	Frequency : M1190	Reference No.: 10028865	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 758915-015	342	69	77	40	180

Requirement: ESTABLISH ESV FOR ATL ERLIN 6 STAR		
Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 02/01/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 758915-015	342	69	77	40	180	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR ATL ERLIN 6 STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 02/01/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 758915-015	342	69	77	40	180	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR ATL ERLIN 6 STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 02/01/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 758915-015	342	69				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VOLUNTEER	City : KNOXVILLE	Ident : VXV	State : TN
Type/Class : TACR	Frequency : M1198	Reference No.: 10049675	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755466-018	91	140	70	140	240

Requirement: ELIMINATE CRITICAL DME ON PECHY AND FLCON STARS		
Signature: Cook David	Routing Symbol:	Date: 04/22/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-018	91	140	70	140	240	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON PECHY AND FLCON STARSApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 04/23/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-018	91	140	70	140	240	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON PECHY AND FLCON STARSApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/26/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-018	91	140				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MACON	City : MACON	Ident : MCN	State : GA
Type/Class : TACR	Frequency : M1176	Reference No.: 10061641	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704164-025	288	344	80	40	140

Requirement: MODIFY EXISTING ESV TO SUPPORT HONIE7 STAR		
Signature: Cook David	Routing Symbol:	Date: 06/30/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704164-025	288	344	80	40	140	APPROVE

Requirement/Remarks: MODIFY EXISTING ESV TO SUPPORT HONIE7 STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 06/30/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704164-025	288	344	80	40	140	APPROVE

Requirement/Remarks: MODIFY EXISTING ESV TO SUPPORT HONIE7 STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/30/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704164-025	288	344				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ATHENS	City : ATHENS	Ident : AHN	State : GA
Type/Class : TACR	Frequency : M994	Reference No.: 10049691	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 971081-025	215	290	70	40	140

Requirement: ELIMINATE CRITICAL DME ON ERLIN STAR		
Signature: Cook David	Routing Symbol:	Date: 04/26/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 971081-025	215	290	70	40	140	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON ERLIN STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/26/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 971081-025	215	290	70	40	140	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON ERLIN STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/26/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 971081-025	215	290				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : FOOTHILLS	City : TOCCOA	Ident : ODF	State : SC
Type/Class : TACR	Frequency : M1168	Reference No.: 10059807	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 090551-008	200	255	70	40	140

Requirement: ELIMINATE CRITICAL DME ON HARAY RNAV STAR		
Signature: Cook David	Routing Symbol:	Date: 05/03/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 090551-008	200	255	70	40	140	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON HARAY RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 05/04/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 090551-008	200	255	70	40	140	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON HARAY RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/04/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 090551-008	200	255				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ROME	City : ROME	Ident : RMG	State : GA
Type/Class : TACR	Frequency : M1188	Reference No.: 10071977	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755481-025	73	133	80	70	160

Requirement: ESTABLISH ESV FOR FLCON RNAV STAR		
Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 07/22/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755481-025	73	133	80	70	160	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR FLCON RNAV STARGrandfather Rule/Policy. TACAN Signal Strength(dBW) =		
Signature: Cassella Charles	Routing Symbol:	Date: 07/22/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755481-025	73	133	80	70	160	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR FLCON RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/27/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755481-025	73	133				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : COLLIERS	City : COLLIERS	Ident : IRQ	State : SC
Type/Class : TACR	Frequency : M1173	Reference No.: 12052700	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 861940-057	300	324	105	120	200

Requirement: ELIMINATE CRITICAL DME ON PECHY SID		
Signature: COOK DAVE	Routing Symbol:	Date: 05/17/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 861940-057	300	324	105	120	200	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON PECHY SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 05/17/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 861940-057	300	324	105	120	200	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON PECHY SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Hughes Dennis	Routing Symbol:	Date: 05/21/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 861940-057	300	324				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : FALMOUTH	City : FALMOUTH	Ident : FLM	State : KY
Type/Class : DME	Frequency : M1204	Reference No.: 12052701	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 682019-020	100	120	125	179	200

Requirement: ELIMINATE CRITICAL DME ON PECHY SID		
Signature: COOK DAVE	Routing Symbol:	Date: 05/17/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 682019-020	100	120	125	179	200	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON PECHY SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 05/30/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 682019-020	100	120	125	179	200	APPROVE

Requirement/Remarks: ELIMINATE CRITICAL DME ON PECHY SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Hughes Dennis	Routing Symbol:	Date: 05/30/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 682019-020	100	120				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP/ FIX/NAVAID	(d) To RNAV WP/ FIX/NAVAID	(e) Mag Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
CHARLESTON	HVQ.EVULE1	HVQ VORTAC	KONGO	204.11/53.51	FL180			
		KONGO	CULME	203.87/11.17	FL180			
		CULME	GOBME	209.01/19.75	FL180			
		GOBME	HUBEL	208.92/56.00	FL180			
		HUBEL	SOT VORTAC	208.64/25.00	FL180			
		SOT VORTAC	PLEES	210.44/50.00	FL180			
		PLEES	SHANE	210.19/26.55	12000			
		SHANE	EVULE	210.06/30.35	12000			
SPAYD	SPAYD.EVULE1	SPAYD	CULME	179.08/52.09	FL180			
		CULME	GOBME	209.01/19.75	FL180			
(CONTINUED IN BLOCK 16)		GOBME	HUBEL	208.92/56.00	FL180			

(2) Arrival Route Description: FROM OVER EVULE ON TRACK 214.96/12.10 NM TO SMELY (MEA 5000), THEN ON ASSIGNED RUNWAY TRANSITION.

LANDING EAST RWY 8L/8R: FROM OVER SMELY ON TRACK 214.92/18.44 NM TO GAASS (MEA 5000), THEN ON TRACK 275.03/7.75 NM TO KLOWD (MEA 5000), THEN ON TRACK 275.03/6.50 NM TO REAKS (MEA 5000), THEN ON TRACK 274.88/7.59 NM TO TRAPE (MEA 4000), THEN ON TRACK 274.84/5.00 NM TO SNEVE (MEA 4000), THEN ON TRACK 274.84, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(CONTINUED IN BLOCK 16)

(3) Procedural Data Notes:
NOTE: ATC ASSIGNED ONLY. **NOTE:** THIS STAR APPLICABLE TO TURBOJET AIRCRAFT ONLY. **NOTE:** DME/DME/IRU OR GPS REQUIRED. **NOTE:** RNAV 1. **NOTE:** RADAR REQUIRED. **NOTE:** LANDING EAST, EXPECT TO CROSS EVULE AT 13000; LANDING WEST, EXPECT TO CROSS EVULE AT 13000 AND AT 250 KIAS. **NOTE:** LANDING WEST, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER BBOBB. **NOTE:** LANDING EAST RWY 8L/8R, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER SNEVE. **NOTE:** LANDING EAST RWY 9L/9R/10, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER SUMNR.

(4) Fixes and/or Holding Patterns:
CHART: ATL VORTAC, DIRTY.
CHART HOLDING PATTERNS: PLEES (HOLD NE, RT, 210.44 INBOUND, 15 NM LEGS); SHANE (HOLD NE, RT, 210.19 INBOUND, 15 NM LEGS); DIRTY (HOLD NE, RT, 221.55 INBOUND, 15 NM LEGS);

(5) Communications: ATLANTA APPROACH CONTROL; HARTSFIELD - JACKSON ATLANTA INTL ARRIVAL ATIS.

QUALITY 3 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

(12) Airports Served

Airport Name	HARTSFIELD – JACKSON ATLANTA INTL	**City/State**	ATLANTA, GA
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	

(13) Lost Communications Procedure:

(14) Remarks:

DIRTY IS NOT PART OF THE ARRIVAL PROCEDURE. HOLDING PATTERN DEPICTION REQUESTED BY ATC.

(15) Additional Flight Data:

SPECIAL CHARTING INSTRUCTIONS: INSERT "TRK" ON GRAPHIC DEPICTION AFTER MAGNETIC HEADINGS FOR ALL FM LEGS (ALL RWYS).
REFERENCE MAGNETIC VARIATION: KATL 05W/2015
DME/DME ASSESSMENT: SAT (RNP 2.0)

QUALITY 3 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

(16) Continuation:

(1) Transition Routes (continued)

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP/ FIX/NAVAID	(d) To RNAV WP/ FIX/NAVAID	(e) Mag Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / ı ixes
		HUBEL SOT VORTAC PLEES SHANE	SOT VORTAC PLEES SHANE EVULE	208.64/25.00 210.44/50.00 210.19/26.55 210.06/30.35	FL180 FL180 12000 12000			

(16) Continuation:
(2) ARRIVAL ROUTE DESCRIPTION (CONTINUED):

LANDING EAST RWY 9L/9R/10: FROM OVER SMELY ON TRACK 203.08/29.16 NM TO FRYES (MEA 4000), THEN ON TRACK 275.00/7.73 NM TO SHURT (MEA 4000), THEN ON TRACK 275.02/5.92 NM TO STUUF (MEA 4000), THEN ON TRACK 274.92/4.91 NM TO SHELE (MEA 3000), THEN ON TRACK 274.92/5.00 NM TO SUMNR (MEA 3000), THEN ON TRACK 274.92, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING WEST RWY 26L/26R/27L/27R/28: FROM OVER SMELY ON TRACK 183.00/5.00 NM TO BBOBB (MEA 5000), THEN ON TRACK 183.00, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

(17) Changes:
ORIGINAL

(18) Reasons for Changes:
EASTERN FPT REQUEST.

	Name *(Typed and Signed)*, Title and Organization		DATE
Developed By	JOHN RIEDER, ACTING MANAGER AIRSPACE AND PROCEDURES, ATLANTA ARTCC		10/04/2012
Approved	**NFPO**	SUSAN CRUMB, MANAGER, AJV-352	
	Reg. ATD		

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
HVQ VORTAC	382058.84N / 0814611.68W	Y		IF					HVQ.EVULE1
KONGO	373019.46N / 0820812.56W	Y	FB	TF	199.11	53.51			
CULME	371944.19N / 0821244.50W	Y	FB	TF	198.87	11.17			
GOBME	370140.02N / 0822246.62W	Y	FB	TF	204.01	19.75			
HUBEL	361021.11N / 0825049.19W	Y	FB	TF	203.92	56.00			
SOT VORTAC	354724.36N / 0830308.53W	Y	FB	TF	203.64	25.00			
PLEES	350208.27N / 0832918.01W	Y	FB	TF	205.44	50.00			HOLDING - RIGHT TURNS
SHANE	343803.80N / 0834259.59W	Y	FB	TF	205.19	26.55			HOLDING - RIGHT TURNS
EVULE	341030.41N / 0835829.23W	Y	FB	TF	205.06	30.35			LANDING EAST: EXPECT 13000 LANDING WEST: EXPECT 13000/250 KTS.
En Route Transition									
SPAYD	381136.56N / 0821928.69W	Y		IF					SPAYD.EVULE1
CULME	371944.19N / 0821244.50W	Y	FB	TF	174.08	52.09			
GOBME	370140.02N / 0822246.62W	Y	FB	TF	204.01	19.75			
HUBEL	361021.11N / 0825049.19W	Y	FB	TF	203.92	56.00			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE	QUALITY 3 CHECKED	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
SOT VORTAC	354724.36N / 0830308.53W	Y	FB	TF	203.64	25.00			
PLEES	350208.27N / 0832918.01W	Y	FB	TF	205.44	50.00			HOLDING - RIGHT TURNS
SHANE	343803.80N / 0834259.59W	Y	FB	TF	205.19	26.55			HOLDING - RIGHT TURNS
EVULE	341030.41N / 0835829.23W	Y	FB	TF	205.06	30.35			LANDING EAST: EXPECT 13000 LANDING WEST: EXPECT 13000/250 KTS.
Common Route									
EVULE	341030.41N / 0835829.23W	Y		IF					
SMELY	335959.98N / 0840545.35W	Y	FB	TF	209.96	12.10			
Runway Transition									
SMELY	335959.98N / 0840545.35W	Y		IF					
GAASS	334358.72N / 0841647.05W	Y	FB	TF	209.92	18.44			
KLOWD	334358.63N / 0842604.57W	Y	FB	TF	270.03	7.75			
REAKS	334358.59N / 0843352.12W	Y	FB	TF	270.03	6.50			
TRAPE	334357.33N / 0844258.20W	Y	FB	TF	269.88	7.59			
SNEVE	334356.33N / 0844857.91W	Y	FO	TF	269.84	5.00			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

QUALITY 3 CHECKED

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
RW08L, 08R				FM	269.84				
Runway Transition									
SMELY	335959.98N / 0840545.35W	Y		IF					
FRYES	333212.96N / 0841634.90W	Y	FB	TF	198.08	29.16			
SHURT	333212.63N / 0842549.73W	Y	FB	TF	270.00	7.73			
STUUF	333212.53N / 0843254.88W	Y	FB	TF	270.02	5.92			
SHELE	333211.96N / 0843847.56W	Y	FB	TF	269.92	04.91			
SUMNR	333211.40N / 0844446.46W	Y	FO	TF	269.92	05.00			
RW09L, 09R, 10				FM	269.92				
Runway Transition									
SMELY	335959.98N / 0840545.35W	Y		IF					
BBOBB	335459.41N / 0840532.74W	Y	FO	TF	178.00	5.00			
RW26L, 26R, 27L, 27R, 28				FM	178.00				

QUALITY 3 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ATL   K7011690VTH  N33374466W084260626    N33374268W084260626W0050010002     NARATLANTA
        SUSAD        HVQ   K6011740VTH  N38205884W081461168    N38205884W081461168W0030010992     NARCHARLESTON
        SUSAD        SOT   K7010880VTL  N35472436W083030853    N35472436W083030853W0040042401     NARSNOWBIRD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BBOBB K70    W     N33545941W084053274                      W0050     NAR           BBOBB
        SUSAEAENRT   CULME K60    W     N37194419W082124450                      W0070     NAR           CULME
        SUSAEAENRT   EVULE K70    W     N34103041W083582923                      W0051     NAR           EVULE
        SUSAEAENRT   FRYES K70    W     N33321296W084163490                      W0048     NAR           FRYES
        SUSAEAENRT   GAASS K70    W     N33435872W084164705                      W0048     NAR           GAASS
        SUSAEAENRT   GOBME K60    W     N37014002W082224662                      W0068     NAR           GOBME
        SUSAEAENRT   HUBEL K70    W     N36102111W082504919                      W0063     NAR           HUBEL
        SUSAEAENRT   KLOWD K70    W     N33435863W084260457                      W0047     NAR           KLOWD
        SUSAEAENRT   KONGO K50    C   H N37301946W082081256                      W0071     NAR           KONGO
        SUSAEAENRT   PLEES K70    W     N35020827W083291801                      W0056     NAR           PLEES
        SUSAEAENRT   REAKS K70    W     N33435859W084335212                      W0046     NAR           REAKS
        SUSAEAENRT   SHANE K70    W     N34380380W083425959                      W0054     NAR           SHANE
        SUSAEAENRT   SHELE K70    W     N33321196W084384756                      W0045     NAR           SHELE
        SUSAEAENRT   SHURT K70    W     N33321263W084254973                      W0047     NAR           SHURT
        SUSAEAENRT   SMELY K70    W     N33595998W084054535                      W0050     NAR           SMELY
        SUSAEAENRT   SNEVE K70    W     N33435633W084485791                      W0045     NAR           SNEVE
        SUSAEAENRT   SPAYD K60    C   H N38113656W082192869                      W0071     NAR           SPAYD
        SUSAEAENRT   STUUF K70    W     N33321253W084325488                      W0046     NAR           STUUF
        SUSAEAENRT   SUMNR K70    W     N33321140W084444646                      W0045     NAR           SUMNR
        SUSAEAENRT   TRAPE K70    W     N33435733W084425820                      W0045     NAR           TRAPE

                 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 KATLK7EEVULE14HVQ   010HVQ  K6D 0V       IF                                                18000
```

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

FAA Form 7100-3 (9/02)

```
SUSAP KATLK7EEVULE14HVQ   020KONGOK5EA0E    010TF
SUSAP KATLK7EEVULE14HVQ   030CULMEK6EA0E    010TF
SUSAP KATLK7EEVULE14HVQ   040GOBMEK6EA0E    010TF
SUSAP KATLK7EEVULE14HVQ   050HUBELK7EA0E    010TF
SUSAP KATLK7EEVULE14HVQ   060SOT  K7D 0V    010TF
SUSAP KATLK7EEVULE14HVQ   070PLEESK7EA0E  H 010TF
SUSAP KATLK7EEVULE14HVQ   080SHANEK7EA0E  H 010TF
SUSAP KATLK7EEVULE14HVQ   090EVULEK7EA0EE   010TF
SUSAP KATLK7EEVULE14SPAYD 010SPAYDK6EA0E      IF                                  18000
SUSAP KATLK7EEVULE14SPAYD 020CULMEK6EA0E    010TF
SUSAP KATLK7EEVULE14SPAYD 030GOBMEK6EA0E    010TF
SUSAP KATLK7EEVULE14SPAYD 040HUBELK7EA0E    010TF
SUSAP KATLK7EEVULE14SPAYD 050SOT  K7D 0V    010TF
SUSAP KATLK7EEVULE14SPAYD 060PLEESK7EA0E  H 010TF
SUSAP KATLK7EEVULE14SPAYD 070SHANEK7EA0E  H 010TF
SUSAP KATLK7EEVULE14SPAYD 080EVULEK7EA0EE   010TF
SUSAP KATLK7EEVULE15      010EVULEK7EA0E      IF                                  18000
SUSAP KATLK7EEVULE15      020SMELYK7EA0EE   010TF
SUSAP KATLK7EEVULE16RW08B 010SMELYK7EA0E      IF                                  18000
SUSAP KATLK7EEVULE16RW08B 020GAASSK7EA0E    010TF
SUSAP KATLK7EEVULE16RW08B 030KLOWDK7EA0E    010TF
SUSAP KATLK7EEVULE16RW08B 040REAKSK7EA0E    010TF
SUSAP KATLK7EEVULE16RW08B 050TRAPEK7EA0E    010TF
SUSAP KATLK7EEVULE16RW08B 060SNEVEK7EA0EY   010TF
SUSAP KATLK7EEVULE16RW08B 070SNEVEK7EA0EE      FM ATL K7      293102012748    D
SUSAP KATLK7EEVULE16RW09B 010SMELYK7EA0E      IF                                  18000
SUSAP KATLK7EEVULE16RW09B 020FRYESK7EA0E    010TF
SUSAP KATLK7EEVULE16RW09B 030SHURTK7EA0E    010TF
SUSAP KATLK7EEVULE16RW09B 040STUUFK7EA0E    010TF
SUSAP KATLK7EEVULE16RW09B 050SHELEK7EA0E    010TF
SUSAP KATLK7EEVULE16RW09B 060SUMNRK7EA0EY   010TF
SUSAP KATLK7EEVULE16RW09B 070SUMNRK7EA0EE      FM ATL K7      255501662749    D
SUSAP KATLK7EEVULE16RW10  010SMELYK7EA0E      IF                                  18000
SUSAP KATLK7EEVULE16RW10  020FRYESK7EA0E    010TF
SUSAP KATLK7EEVULE16RW10  030SHURTK7EA0E    010TF
SUSAP KATLK7EEVULE16RW10  040STUUFK7EA0E    010TF
SUSAP KATLK7EEVULE16RW10  050SHELEK7EA0E    010TF
SUSAP KATLK7EEVULE16RW10  060SUMNRK7EA0EY   010TF
SUSAP KATLK7EEVULE16RW10  070SUMNRK7EA0EE      FM ATL K7      255501662749    D
SUSAP KATLK7EEVULE16RW26B 010SMELYK7EA0E      IF                                  18000
SUSAP KATLK7EEVULE16RW26B 020BBOBBK7EA0EY   010TF
SUSAP KATLK7EEVULE16RW26B 030BBOBBK7EA0EE      FM ATL K7      049802431830    D
SUSAP KATLK7EEVULE16RW27B 010SMELYK7EA0E      IF                                  18000
```

QUALITY A CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

```
SUSAP KATLK7EEVULE16RW27B 020BBOBBK7EA0EY   010TF
SUSAP KATLK7EEVULE16RW27B 030BBOBBK7EA0EE      FM ATL K7      049802431830    D
SUSAP KATLK7EEVULE16RW28  010SMELYK7EA0E       IF                                    18000
SUSAP KATLK7EEVULE16RW28  020BBOBBK7EA0EY   010TF
SUSAP KATLK7EEVULE16RW28  030BBOBBK7EA0EE      FM ATL K7      049802431830    D
```

```
            1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------
SUSAP KATLK7GRW08L   0090000950 N33385832W084262049-0300    +027980101500005915OIIHFW3
SUSAP KATLK7GRW08R   0100000950 N33384843W084261811-0300    +028260102400005315OIIATL2
SUSAP KATLK7GRW09L   0123900950 N33380494W084265268-0300    +028110101900005615OIIHZK1
SUSAP KATLK7GRW09R   0090000950 N33375453W084265268-0500    +028330102600005415OIIFUN3
SUSAP KATLK7GRW10    0090000950 N33371298W084265236+0000    +027550100000005815OIIOMO3
SUSAP KATLK7GRW26L   0100002750 N33384846W084241983+0300    +027390099500005215OIIBRU1
SUSAP KATLK7GRW26R   0090002750 N33385835W084243403+0300    +027230099000005815OIIGXZ1
SUSAP KATLK7GRW27L   0090002750 N33375456W084250624+0500    +027080098500005715OIIFSQ1
SUSAP KATLK7GRW27R   0123902750 N33380493W084243207+0300    +026870097805005615OIIAFA1
SUSAP KATLK7GRW28    0090002750 N33371302W084250594+0000    +027460099800005515OIIPKU2
```

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HVQ	HVQ	010		IF		FB					
	HVQ	KONGO	020		TF		FB	1.0				
	HVQ	CULME	030		TF		FB	1.0				
	HVQ	GOBME	040		TF		FB	1.0				
	HVQ	HUBEL	050		TF		FB	1.0				
	HVQ	SOT	060		TF		FB	1.0				
	HVQ	PLEES	070		TF		FB	1.0				
	HVQ	SHANE	080		TF		FB	1.0				
	HVQ	EVULE	090		TF		FB	1.0				
	SPAYD	SPAYD	010		IF		FB					
	SPAYD	CULME	020		TF		FB	1.0				
	SPAYD	GOBME	030		TF		FB	1.0				
	SPAYD	HUBEL	040		TF		FB	1.0				
	SPAYD	SOT	050		TF		FB	1.0				
	SPAYD	PLEES	060		TF		FB	1.0				
	SPAYD	SHANE	070		TF		FB	1.0				
	SPAYD	EVULE	080		TF		FB	1.0				
		EVULE	010		IF		FB					
		SMELY	020		TF		FB	1.0				
	RW08B	SMELY	010		IF		FB					
	RW08B	GAASS	020		TF		FB	1.0				
	RW08B	KLOWD	030		TF		FB	1.0				
	RW08B	REAKS	040		TF		FB	1.0				
	RW08B	TRAPE	050		TF		FB	1.0				
	RW08B	SNEVE	060		TF		FO	1.0				
	RW08B	SNEVE	070		FM		FB		274.8()			
	RW09B	SMELY	010		IF		FB					
	RW09B	FRYES	020		TF		FB	1.0				
	RW09B	SHURT	030		TF		FB	1.0				
	RW09B	STUUF	040		TF		FB	1.0				
	RW09B	SHELE	050		TF		FB	1.0				
	RW09B	SUMNR	060		TF		FO	1.0				
	RW09B	SUMNR	070		FM		FB		274.9()			
	RW10	SMELY	010		IF		FB					
	RW10	FRYES	020		TF		FB	1.0				
	RW10	SHURT	030		TF		FB	1.0				
	RW10	STUUF	040		TF		FB	1.0				
	RW10	SHELE	050		TF		FB	1.0				

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

RW10	SUMNR	060	TF	FO	1.0	
RW10	SUMNR	070	FM	FB		274.9()
RW26B	SMELY	010	IF	FB		
RW26B	BBOBB	020	TF	FO	1.0	
RW26B	BBOBB	030	FM	FB		183.0()
RW27B	SMELY	010	IF	FB		
RW27B	BBOBB	020	TF	FO	1.0	
RW27B	BBOBB	030	FM	FB		183.0()
RW28	SMELY	010	IF	FB		
RW28	BBOBB	020	TF	FO	1.0	
RW28	BBOBB	030	FM	FB		183.0()

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ATL	N333744.66	W0842606.26	N3337.744	W08426.104
	HVQ	N382058.84	W0814611.68	N3820.981	W08146.195
	SOT	N354724.36	W0830308.53	N3547.406	W08303.142
	BBOBB	N335459.41	W0840532.74	N3354.990	W08405.546
	CULME	N371944.19	W0821244.50	N3719.737	W08212.742
	EVULE	N341030.41	W0835829.23	N3410.507	W08358.487
	FRYES	N333212.96	W0841634.90	N3332.216	W08416.582
	GAASS	N334358.72	W0841647.05	N3343.979	W08416.784
	GOBME	N370140.02	W0822246.62	N3701.667	W08222.777
	HUBEL	N361021.11	W0825049.19	N3610.352	W08250.820
	KLOWD	N334358.63	W0842604.57	N3343.977	W08426.076
	KONGO	N373019.46	W0820812.56	N3730.324	W08208.209
	PLEES	N350208.27	W0832918.01	N3502.138	W08329.300
	REAKS	N334358.59	W0843352.12	N3343.977	W08433.869
	SHANE	N343803.80	W0834259.59	N3438.063	W08342.993
	SHELE	N333211.96	W0843847.56	N3332.199	W08438.793
	SHURT	N333212.63	W0842549.73	N3332.211	W08425.829
	SMELY	N335959.98	W0840545.35	N3400.000	W08405.756
	SNEVE	N334356.33	W0844857.91	N3343.939	W08448.965
	SPAYD	N381136.56	W0821928.69	N3811.609	W08219.478
	STUUF	N333212.53	W0843254.88	N3332.209	W08432.915
	SUMNR	N333211.40	W0844446.46	N3332.190	W08444.774
	TRAPE	N334357.33	W0844258.20	N3343.956	W08442.970
	RW08L	N333858.32	W0842620.49	N3338.972	W08426.342
	RW08R	N333848.43	W0842618.11	N3338.807	W08426.302
	RW09L	N333804.94	W0842652.68	N3338.082	W08426.878
	RW09R	N333754.53	W0842652.68	N3337.909	W08426.878
	RW10	N333712.98	W0842652.36	N3337.216	W08426.873
	RW26L	N333848.46	W0842419.83	N3338.808	W08424.331

QUALITY 4 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

RW26R	N333858.35	W0842434.03	N3338.973	W08424.567
RW27L	N333754.56	W0842506.24	N3337.909	W08425.104
RW27R	N333804.93	W0842432.07	N3338.082	W08424.535
RW28	N333713.02	W0842505.94	N3337.217	W08425.099

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW08L	01015	59
RW08R	01024	53
RW09L	01019	56
RW09R	01026	54
RW10	01000	58
RW26L	00995	52
RW26R	00990	58
RW27L	00985	57
RW27R	00978	56
RW28	00998	55

QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
EVULE RNAV	ONE	EVULE.EVULE1	NONE		

RADIO FIX AND HOLDING DATA RECORD

NAME: DIRTY **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 340459.40N/0835052.00W **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	NE		WP	041.55	221.55	R		15	11000	23000	28	28

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	344415.20N/0835624.20W	4650	6C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PAT 1 - 15 NM LEG LENGTHS REQUESTED BY ATC.
HOLDING 11000 THROUGH FL230 REQUESTED BY ATC FOR FLOW CONTROL.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)		1	KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)		1	KATL	ATLANTA	GA (US)
STAR	FLCON (RNAV)		1	KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)		1	KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
1. AMENDED PAT 1 CONTROLLING OBSTACLE FROM 2654 MSL TOWER TO 4650 MSL AAO.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/15/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: BBOBB **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 335459.41N/0840532.74W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/19/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: AJV-352
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: EVULE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 341030.41N/0835829.23W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/19/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FRYES **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333212.96N/0841634.90W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GAASS **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 334358.72N/0841647.05W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KLOWD **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 334358.63N/0842604.57W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BNELE (RNAV)			KATL	ATLANTA	GA (US)
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	KOLTT (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)
STAR	WARRR (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 10/29/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PLEES **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 350208.27N/0832918.01W **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	NE		WP	030.44	210.44	R		15	18000	45000	28	30

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PAT 1 - 15 NM LEG LENGTHS REQUESTED BY ATC.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	EVULE (RNAV)		1	KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)		1	KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
1. REMOVED PAT 1 HOLDING OBSTACLE (NOT NEEDED, HOLDING 18000 AND ABOVE).
2. INCREASED PAT 1 MAA FROM 35000 TO 45000.
3. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/19/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: REAKS **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 334358.59N/0843352.12W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SHANE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 343803.80N/0834259.59W **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	NE		WP	030.19	210.19	R		15	12000	45000	28	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	350204.00N/0833212.80W	5699	6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	264

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 - 15 NM LEG LENGTHS REQUESTED BY ATC.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	EVULE (RNAV)		1	KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)		1	KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
1. ADDED PRECIPITOUS TERRAIN ADJUSTMENT TO PAT 1.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/19/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SHELE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333211.96N/0843847.56W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 10			KATL	ATLANTA	GA (US)
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 10/25/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SHURT **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333212.63N/0842549.73W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BNELE (RNAV)			KATL	ATLANTA	GA (US)
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	KOLTT (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)
STAR	WARRR (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 10/29/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SMELY **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 335959.98N/0840545.35W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/19/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SNEVE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 334356.33N/0844857.91W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SNOWBIRD VORTAC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 354724.36N/0830308.53W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	SNOWBIRD	SOT	VORTAC	L							45000

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

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	354626.60N/0831535.60W	6821	6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
UPN	230	336

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8200.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FEDRA (RNAV)			KSDF	LOUISVILLE	KY (US)
DP	ASHEVILLE			KAVL	ASHEVILLE	NC (US)
DP	HICKORY			KHKY	HICKORY	NC (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
EN ROUTE	J186					(US)
EN ROUTE	V136					(US)
EN ROUTE	V185					(US)
EN ROUTE	V517					(US)
IAP	ILS OR LOC RWY 16			KAVL	ASHEVILLE	NC (US)
IAP	NDB RWY 5			KGCY	GREENEVILLE	TN (US)
IAP	VOR/DME-B			KDKX	KNOXVILLE	TN (US)
IAP	NDB RWY 5			KMOR	MORRISTOWN	TN (US)
IAP	SDF RWY 5			KMOR	MORRISTOWN	TN (US)
IAP	VOR/DME RWY 10			KGKT	SEVIERVILLE	TN (US)
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	FLCON (RNAV)			KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)			KATL	ATLANTA	GA (US)
STAR	WHINZ			KATL	ATLANTA	GA (US)
STAR	AWSON			KCCO	ATLANTA	GA (US)
STAR	AWSON			KCVC	ATLANTA	GA (US)
STAR	AWSON			KFFC	ATLANTA	GA (US)
STAR	AWSON			KFTY	ATLANTA	GA (US)
STAR	AWSON			KPDK	ATLANTA	GA (US)
STAR	AWSON			KPUJ	ATLANTA	GA (US)
STAR	AWSON			KRYY	ATLANTA	GA (US)
STAR	AWSON			KCTJ	CARROLLTON	GA (US)
STAR	AWSON			KVPC	CARTERSVILLE	GA (US)
STAR	AWSON			K6A2	GRIFFIN	GA (US)
STAR	AWSON			K4A7	HAMPTON	GA (US)
STAR	AWSON			KLZU	LAWRENCEVILLE	GA (US)
STAR	AWSON			KMGE	MARIETTA	GA (US)
STAR	AWSON			KD73	MONROE	GA (US)
STAR	UNMAN (RNAV)			KGMU	GREENVILLE	SC (US)
STAR	UNMAN (RNAV)			KGYH	GREENVILLE	SC (US)
STAR	UNMAN (RNAV)			KGSP	GREER	SC (US)
STAR	UNMAN (RNAV)			KLQK	PICKENS	SC (US)
STAR	UNMAN (RNAV)			KSPA	SPARTANBURG	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
1. INCREASED UNPLANNED HOLDING ALTITUDE FROM 8100 TO 8200.
2. ADDED PRECIPITOUS TERRAIN ADJUSTMENT TO UNPLANNED CONTROLLING OBSTACLE.
3. UPDATED FIX USE.

QUALITY 3 CHECKED

DEVELOPED BY:	**DATE:** 11/15/2012	**OFFICE:** AJV-352	**NAME:** PETER GUIMOND
APPROVED BY:	**DATE:**	**OFFICE:** AJV-352	**NAME:** SUE CRUMB
	SIGNATURE:		

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

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: SPAYD **STATE:** WV **COUNTRY:** US

LATITUDE/LONGITUDE: 381136.56N/0821928.69W **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	APPLETON	APE	VORTAC	H	179.93	173.93	117.99	117.99		23000	45000
2	CHARLESTON	HVQ	VORTAC	H	253.52	250.52	27.83	27.83		18000	45000

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

REMARKS:
APPLETON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J6	1, 2				(US)
EN ROUTE	J83	1, 2				(US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
.1 AMENDED FAC 2 MRA FROM 23000 TO 18000.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/19/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: STUUF **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333212.53N/0843254.88W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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: SUMNR **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 333211.40N/0844446.46W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 11/13/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TRAPE **STATE:** GA **COUNTRY:** US

LATITUDE/LONGITUDE: 334357.33N/0844258.20W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 8L			KATL	ATLANTA	GA (US)
STAR	DIRTY (RNAV)			KATL	ATLANTA	GA (US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	ONYON (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 10/29/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CULME **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 371944.19N/0821244.50W **TYPE:** WP

INFO ONLY

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
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
REMOVED FAC 1 TO MEET CURRENT DOCUMENTATION REQUIREMENTS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/21/2010 **OFFICE:** AVN-110 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 04/20/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID, ZTL
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GOBME **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 370140.02N/0822246.62W **TYPE:** WP

INFO ONLY

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
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
REMOVED FAC 1 TO MEET CURRENT DOCUMENTATION REQUIREMENTS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/21/2010 **OFFICE:** AVN-110 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 04/20/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZTL, ZID
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HUBEL **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 361021.11N/0825049.19W **TYPE:** WP

INFO ONLY

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
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
REMOVED FAC 1 TO MEET CURRENT DOCUMENTATION REQUIREMENTS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/21/2010 **OFFICE:** AVN-110 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 04/20/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CHARLESTON VORTAC **STATE:** WV **COUNTRY:** US

LATITUDE/LONGITUDE: 382058.84N/0814611.68W **TYPE:**

INFO ONLY

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	CHARLESTON	HVQ	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	W	HVQ	VORTAC	261.00	081.00	R	1		3000	10000	6	9
2	W	HVQ	VORTAC	263.53	083.53	R	1		3000	10000	6	9
3	W		WP	261.00	081.00	R		6	3000	10000	7	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	TOWER (54-000005)	382428.00N/0815412.00W	2549	4D
1	230	TOWER (54-000005)	382428.00N/0815412.00W	2549	4D
2	230	TOWER (54-000005)	382428.00N/0815412.00W	2549	4D
3	230	TOWER (54-000005)	382428.00N/0815412.00W	2549	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.
PRECIPITOUS TERRAIN EVALUATION COMPLETED
CONTROLLING OBSTACLE LOCATED IN SECONDARY AREA (ALL PATTERNS)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GIPLE (RNAV)			KCVG	COVINGTON	KY (US)
DP	RHOMM			KCVG	COVINGTON	KY (US)
DP	FEDRA (RNAV)			KSDF	LOUISVILLE	KY (US)
DP	HORNET			KVUJ	ALBEMARLE	NC (US)
DP	HUGO			KVUJ	ALBEMARLE	NC (US)
DP	HORNET			KCLT	CHARLOTTE	NC (US)
DP	HUGO			KCLT	CHARLOTTE	NC (US)
DP	HORNET			KJQF	CONCORD	NC (US)
DP	HUGO			KJQF	CONCORD	NC (US)
DP	HORNET			KAKH	GASTONIA	NC (US)
DP	HUGO			KAKH	GASTONIA	NC (US)
DP	HORNET			KIPJ	LINCOLNTON	NC (US)
DP	HUGO			KIPJ	LINCOLNTON	NC (US)
DP	HORNET			KEQY	MONROE	NC (US)
DP	HUGO			KEQY	MONROE	NC (US)
DP	HORNET			KRUQ	SALISBURY	NC (US)
DP	HUGO			KRUQ	SALISBURY	NC (US)
DP	HORNET			KLKR	LANCASTER	SC (US)
DP	HUGO			KLKR	LANCASTER	SC (US)
DP	HORNET			KUZA	ROCK HILL	SC (US)
DP	HUGO			KUZA	ROCK HILL	SC (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
EN ROUTE	J145					(US)
EN ROUTE	J24					(US)
EN ROUTE	J6					(US)
EN ROUTE	J78					(US)
EN ROUTE	J8					(US)
EN ROUTE	J85					(US)
EN ROUTE	V115					(US)
EN ROUTE	V128					(US)
EN ROUTE	V133					(US)
EN ROUTE	V258					(US)
EN ROUTE	V260					(US)
EN ROUTE	V309					(US)
EN ROUTE	V35					(US)
EN ROUTE	V4					(US)
EN ROUTE	V45					(US)
IAP	HI-ILS OR LOC RWY 23L			KLCK	COLUMBUS	OH (US)
IAP	HI-ILS OR LOC/DME RWY 5R			KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 19 (ALT MA)		1	KBKW	BECKLEY	WV (US)
IAP	ILS OR LOC RWY 23		1	KCRW	CHARLESTON	WV (US)
IAP	ILS OR LOC RWY 5		1	KCRW	CHARLESTON	WV (US)
IAP	RNAV (GPS) Y RWY 23		3	KCRW	CHARLESTON	WV (US)
IAP	RNAV (GPS) Y RWY 5		3	KCRW	CHARLESTON	WV (US)
IAP	RNAV (RNP) Z RWY 23		3	KCRW	CHARLESTON	WV (US)

QUALITY 3 CHECKED

IAP	RNAV (RNP) Z RWY 5	3	KCRW	CHARLESTON	WV (US)
IAP	VOR-A	2	KCRW	CHARLESTON	WV (US)
IAP	ILS OR LOC RWY 12		KHTS	HUNTINGTON	WV (US)
IAP	ILS OR LOC RWY 30		KHTS	HUNTINGTON	WV (US)
IAP	VOR-A		K12V	MILTON	WV (US)
IAP	GPS RWY 8		KI16	PINEVILLE	WV (US)
STAR	TRUPS (RNAV)		KDCA	WASHINGTON	DC (US)
STAR	DOCCS		KIAD	WASHINGTON	DC (US)
STAR	GIBBZ (RNAV)		KIAD	WASHINGTON	DC (US)
STAR	EVULE (RNAV)		KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)		KATL	ATLANTA	GA (US)
STAR	TRUPS (RNAV)		KADW	CAMP SPRINGS	MD (US)
STAR	GEMNI		KDTW	DETROIT	MI (US)
STAR	JOHNS (RNAV)		KCLT	CHARLOTTE	NC (US)
STAR	SHINE		KCLT	CHARLOTTE	NC (US)
STAR	SHINE		KAKH	GASTONIA	NC (US)
STAR	SHINE		KIPJ	LINCOLNTON	NC (US)
STAR	SHINE		KEQY	MONROE	NC (US)
STAR	SHINE		KEHO	SHELBY	NC (US)
STAR	SHINE		KAFP	WADESBORO	NC (US)
STAR	SHINE		KN52	WAXHAW	NC (US)
STAR	SHINE		KDCM	CHESTER	SC (US)
STAR	SHINE		KLKR	LANCASTER	SC (US)
STAR	SHINE		KUZA	ROCK HILL	SC (US)
STAR	TRUPS (RNAV)		KDAA	FORT BELVOIR	VA (US)
STAR	DOCCS		KJYO	LEESBURG	VA (US)
STAR	GIBBZ (RNAV)		KJYO	LEESBURG	VA (US)
STAR	GIBBZ (RNAV)		KHEF	MANASSAS	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 04/08/2010

REASON FOR REVISION:
UPDATE TO NEW FORMAT
UPDATE LAT/LON FACILITY MOVED EAST 0.80FT DUE TO NEW SURVEY DATA
UPDATE FIX USE
CHANGE PAT 1 AND 2 HOLDING SPEED FROM 200 TO 230 (KCRW MIL HOLDING)

DEVELOPED BY: **DATE:** 06/30/2009 **OFFICE:** AVN-110 **NAME:** TONY LAWSON

APPROVED BY: **DATE:** 02/09/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: CRW APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KONGO **STATE:** KY **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 373019.46N/0820812.56W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	CHARLESTON	HVQ	VORTAC	H	202.11	199.11	53.51	53.51		18000	45000
2	BECKLEY	BKW	VORTAC	H	257.47	251.47	51.02	51.02		18000	45000

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

REMARKS:
CHARLESTON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J145	1, 2				(US)
EN ROUTE	J42	1, 2				(US)
STAR	EVULE (RNAV)			KATL	ATLANTA	GA (US)
STAR	PECHY (RNAV)			KATL	ATLANTA	GA (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED REMARK: CHARLESTON (FAC 1) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 05/16/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 10/22/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID, ZTL
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

Name:	Dennis Osterhage
Project Name:	KATL RNAV STARS
Output File:	KATL EVULE1 STAR HVQ SNEVE 20120928_1336
Procedure Name:	KATL EVULE1
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	9/28/2012 1:36:22 PM
Input File:	KATL EVULE1 STAR HVQ SNEVE 20120928_1320.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	?
Comms	?
TERPS	?

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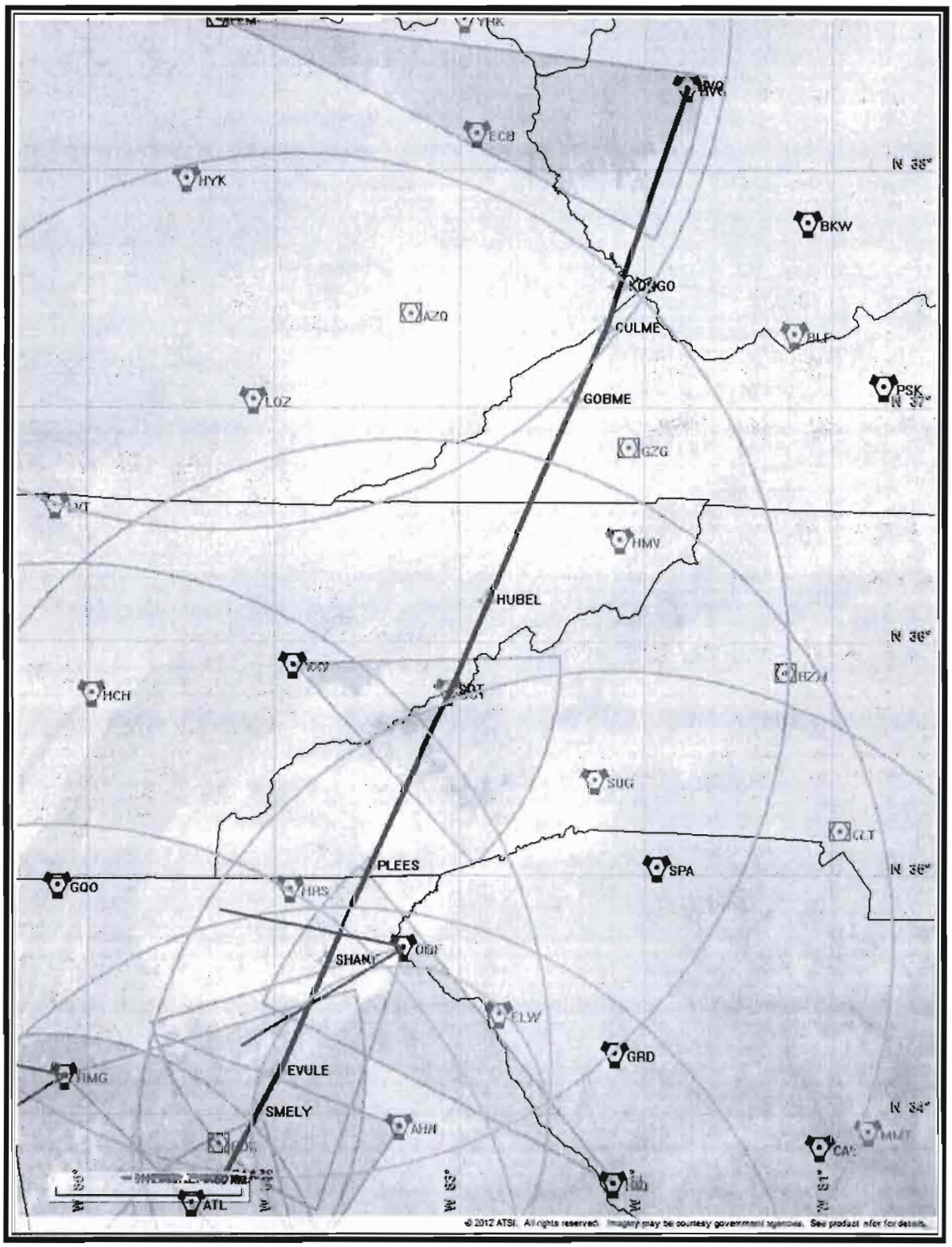
HVQ
ECB
HYK
BKW
AZQ
CULME
LOZ
GOBME
PSK
GZG
HMV
HUBEL
HCH
SUG
PLEES
SPA
GQO
SHANT
FLW
GRD
EVULE
SMELY
ATL
N 38°
N 37°
N 36°
N 34°
W 85°
W 84°
W 83°
W 82°
W 81°
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HVQ	WP	N 38° 20' 58.84" W 81° 46' 11.68"	18000.0	Step	240.0	Fly By	TF
KONGO	WP	N 37° 30' 19.46" W 82° 8' 12.56"	18000.0	Step	240.0	Fly By	TF
CULME	WP	N 37° 19' 44.19" W 82° 12' 44.50"	18000.0	Step	240.0	Fly By	TF
GOBME	WP	N 37° 1' 40.02" W 82° 22' 46.62"	18000.0	Step	240.0	Fly By	TF
HUBEL	WP	N 36° 10' 21.11" W 82° 50' 49.19"	18000.0	Step	240.0	Fly By	TF
SOT	WP	N 35° 47' 24.36" W 83° 3' 8.53"	18000.0	Step	240.0	Fly By	TF
PLEES	WP	N 35° 2' 8.27" W 83° 29' 18.01"	18000.0	Step	240.0	Fly By	TF
SHANE	WP	N 34° 38' 3.80" W 83° 42' 59.59"	12000.0	Step	210.0	Fly By	TF
EVULE	WP	N 34° 10' 30.41" W 83° 58' 29.23"	12000.0	Step	210.0	Fly By	TF
SMELY	WP	N 33° 59' 59.98" W 84° 5' 45.35"	5000.0	Step	180.0	Fly By	TF
GAASS	WP	N 33° 43' 58.72" W 84° 16' 47.05"	5000.0	Step	180.0	Fly By	TF
KLOWD	WP	N 33° 43' 58.63" W 84° 26' 4.57"	5000.0	Step	180.0	Fly By	TF
REAKS	WP	N 33° 43' 58.59" W 84° 33' 52.12"	5000.0	Step	180.0	Fly By	TF
TRAPE	WP	N 33° 43' 57.33" W 84° 42' 58.20"	4000.0	Step	180.0	Fly By	TF
SNEVE	WP	N 33° 43' 56.33" W 84° 48' 57.91"	4000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included

Total Number of DMEs Used: 20

Maximum DME Error: 0.913 NM

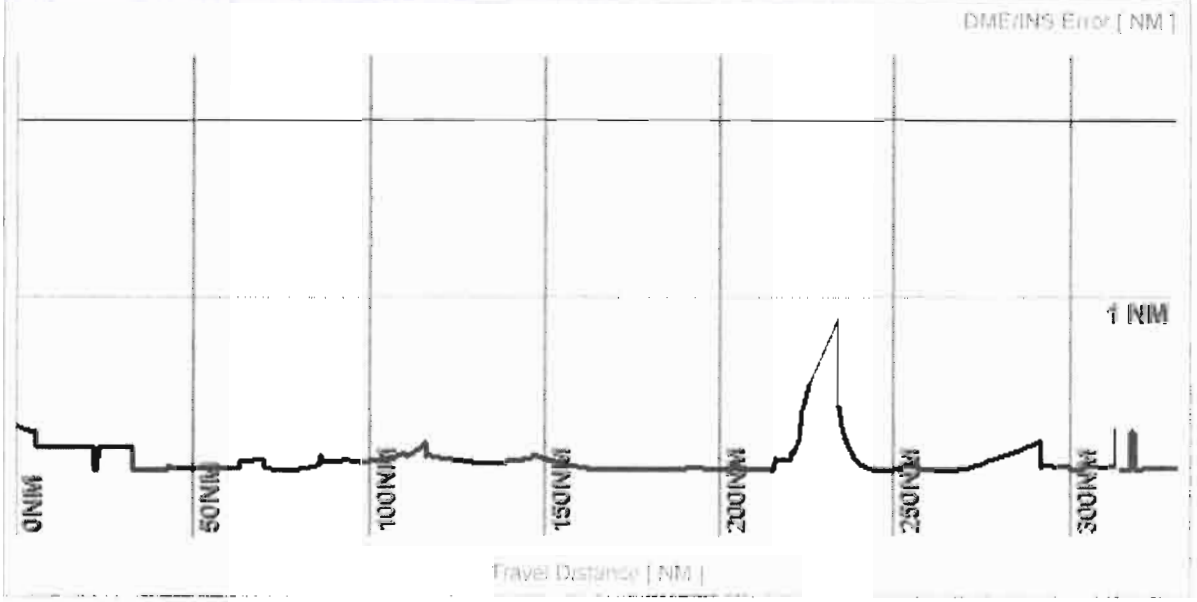
No Critical DMEs were found.

Available DMEs: FLM, BKW, HNN, HVQ, PSK, GZG, HMV, VXV, SPA, SOT, ODF, GRD, GQO, HRS, RMG, IRQ, PDK, AHN, LGC, MCN, ATL

Foreign DMEs within range: YQG

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FLM	N 38° 38' 58.16" W 84° 18' 38.27" W 4	H + ESV	User	NO	0.913	Enabled	9.0 %	9.5 %
2	HNN	N 38° 45' 14.85" W 82° 1' 34.20" W 3	H	Database	NO	0.913	Enabled	6.3 %	6.7 %
3	HVQ	N 38° 20' 58.84" W 81° 46' 11.68" W 3	H	Database	NO	0.913	Enabled	15.7 %	16.7 %
4	BKW	N 37° 46' 49.08" W 81° 7' 24.44" W 6	H	Database	NO	0.913	Enabled	10.7 %	11.4 %
5	PSK	N 37° 5' 15.74" W 80° 42' 46.44" W 6	H	Database	NO	0.913	Enabled	7.8 %	8.3 %
6	GZG	N 36° 49' 30.38" W 82° 4' 44.32" W 2	L	Database	NO	0.913	Enabled	6.8 %	7.3 %
7	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H + ESV	User	NO	0.913	Enabled	25.6 %	27.2 %
8	HMV	N 36° 26' 13.40" W 82° 7' 46.56" W 4	L	Database	NO	1.021	Enabled	7.1 %	7.6 %
9	SPA	N 35° 2' 1.05" W 81° 55' 37.24" W 2	H	Database	NO	0.913	Enabled	13.5 %	14.3 %
10	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H + ESV	User	NO	1.298	Enabled	22.2 %	21.6 %
11	SOT	N 35° 47' 24.36" W 83° 3' 8.53" W 8	L	Database	NO	0.913	Enabled	6.9 %	7.4 %
12	HRS	N 34° 56' 34.82" W 83° 54' 56.45" E 0	L	Database	NO	0.869	Enabled	15.9 %	16.1 %
13	GQO	N 34° 57' 40.54" W 85° 9' 12.14" E 1	H	Database	NO	0.913	Enabled	0.3 %	0.3 %
14	RMG	N 34° 9' 45.22" W 85° 7' 9.83" E 1	H + ESV	User	NO	0.913	Enabled	7.6 %	6.8 %
15	IRQ	N 33° 42' 26.47" W 82° 9' 43.43" W 4	H + ESV	User	NO	0.858	Enabled	0.8 %	0.7 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	AHN	N 33° 56' 51.34" W 83° 19' 29.13" E 0	L + ESV	User	NO	0.913	Enabled	15.1 %	13.0 %
17	PDK	N 33° 52' 32.27" W 84° 17' 55.73" W 2	L	Database	NO	0.913	Enabled	10.5 %	9.2 %
18	MCN	N 32° 41' 28.26" W 83° 38' 49.86" E 1	H + ESV	User	NO	0.913	Enabled	6.4 %	5.3 %
19	LGC	N 33° 2' 56.83" W 85° 12' 22.40" E 1	H + ESV	User	NO	0.913	Enabled	5.5 %	4.5 %
20	ATL	N 33° 37' 42.68" W 84° 26' 6.26" W 0	H	Database	NO	0.913	Enabled	1.1 %	0.9 %

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 52' 43.61" W 83° 34' 40.28"	N 34° 45' 10.16" W 83° 38' 58.06"	8.3
	VOR: HRS	Available from N 34° 52' 43.61" W 83° 34' 40.28" to N 34° 45' 10.16" W 83° 38' 58.06"	
	VOR: ODF	Available from N 34° 52' 43.61" W 83° 34' 40.28" to N 34° 45' 10.16" W 83° 38' 58.06"	

User DMEs

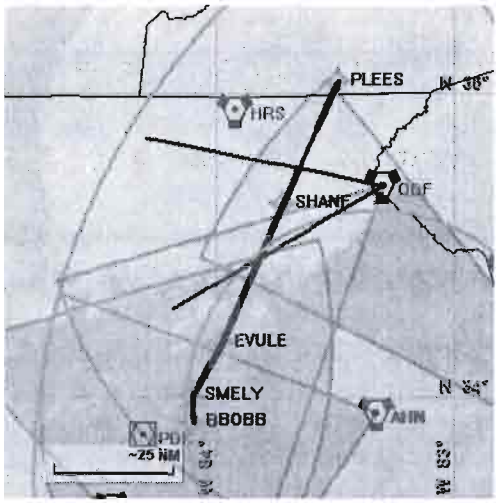
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	LGC	N 33° 2' 56.83" W 85° 12' 22.40" E 1	H	790.0	115.60	LGC	Used
	ESV:	Bearing [True]: 343.0° to 70.0° Bearing [Mag]: 342.0° to 69.0°		Arc Distance: Out to 77.0 NM Altitude: 4000.0 to 18000.0 Ft.			
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H	1289.6	116.40	VXV	Used
	ESV:	Bearing [True]: 88.0° to 137.0° Bearing [Mag]: 91.0° to 140.0°		Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 24000.0 Ft.			
3	MCN	N 32° 41' 28.26" W 83° 38' 49.86" E 1	H	381.3	114.20	MCN	Used
	Restriction:	Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 240.0° to 280.0°		Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.			
	ESV:	Bearing [True]: 289.0° to 345.0° Bearing [Mag]: 288.0° to 344.0°		Arc Distance: Out to 80.0 NM Altitude: 4000.0 to 14000.0 Ft.			

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
4	AHN	N 33° 56' 51.34" W 83° 19' 29.13" E 0	L	790.0	109.60	AHN	Used
		ESV: Bearing [True]: 215.0° to 290.0° Bearing [Mag]: 215.0° to 290.0°			Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 14000.0 Ft.		
5	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H	1700.0	113.40	ODF	Used
		Restriction: Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 241.0° to 281.0°			Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.		
		ESV: Bearing [True]: 200.0° to 255.0° Bearing [Mag]: 200.0° to 255.0°			Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 14000.0 Ft.		
6	RMG	N 34° 9' 45.22" W 85° 7' 9.83" E 1	H	1150.0	115.40	RMG	Used
		Restriction: Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 240.0° to 280.0°			Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.		
		ESV: Bearing [True]: 74.0° to 134.0° Bearing [Mag]: 73.0° to 133.0°			Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 16000.0 Ft.		
7	IRQ	N 33° 42' 26.47" W 82° 9' 43.43" W 4	H	420.0	113.90	IRQ	Used
		ESV: Bearing [True]: 296.0° to 320.0° Bearing [Mag]: 300.0° to 324.0°			Arc Distance: Out to 105.0 NM Altitude: 12000.0 to 20000.0 Ft.		
8	FLM	N 38° 38' 58.16" W 84° 18' 38.27" W 4	H	810.0	117.00	FLM	Used
		ESV: Bearing [True]: 96.0° to 116.0° Bearing [Mag]: 100.0° to 120.0°			Arc Distance: Out to 125.0 NM Altitude: 17900.0 to 20000.0 Ft.		



Name:	Dennis Osterhage
Project Name:	KATL RNAV STARS
Output File:	KATL EVULE1 STAR PLEES BBOBB 20120928_1406
Procedure Name:	KATL EVULE1
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	9/28/2012 2:06:03 PM
Input File:	KATL EVULE1 STAR PLEES BBOBB 20120928_1357.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓	**Please Check Flyability Results**
DME/DME	✓	
Radars	?	
Comms	?	
TERPS	?	

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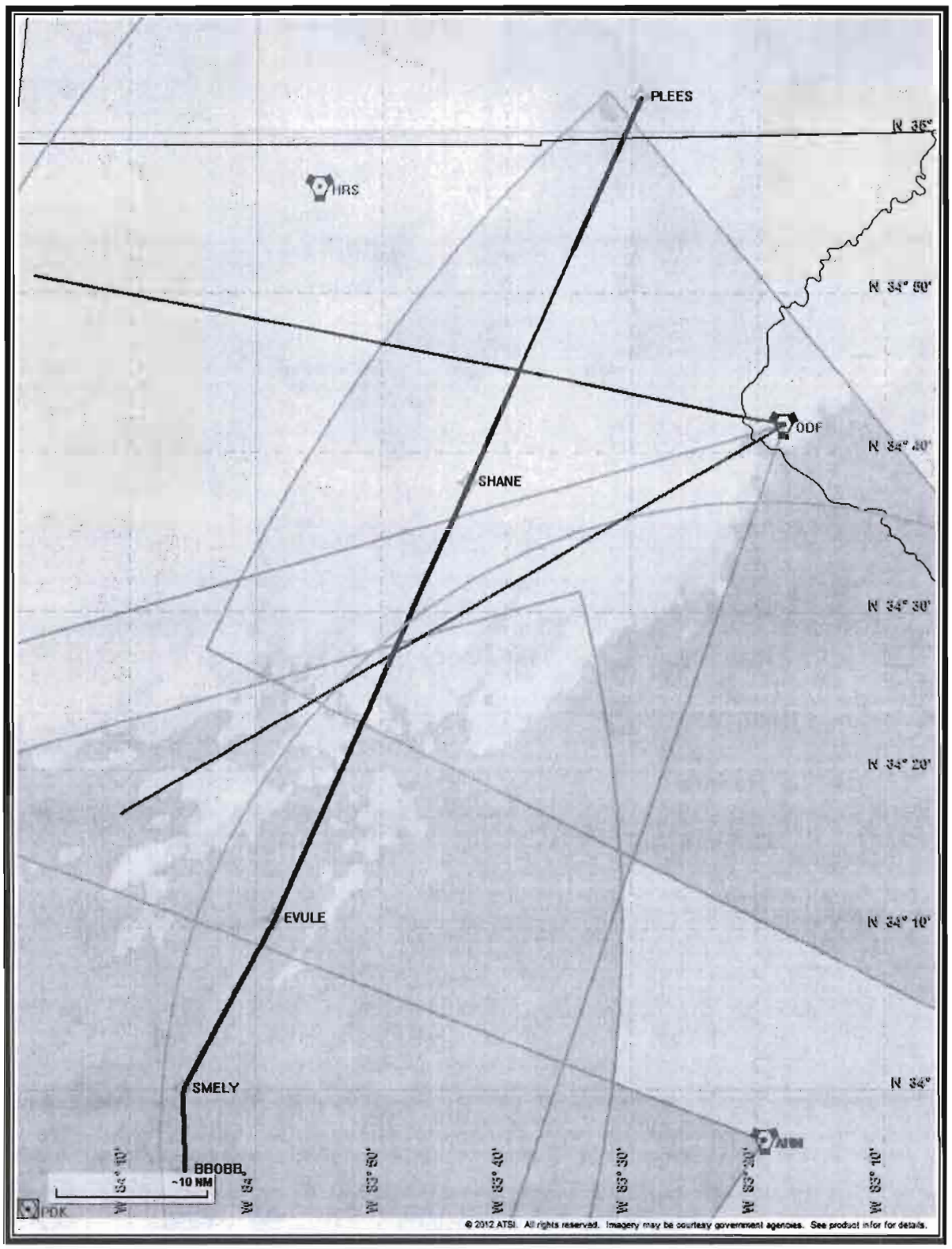
PLEES
N 35°
HRS
N 34° 50'
ODF
N 34° 40'
SHANE
N 34° 30'
N 34° 20'
EVULE
N 34° 10'
SMELY
N 34°
BBOBB
~10 NM
PDK
ATL
W 84° 10'
W 84°
W 83° 50'
W 83° 40'
W 83° 30'
W 83° 20'
W 83° 10'
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
PLEES	WP	N 35° 2' 8.27" W 83° 29' 18.01"	12000.0	Step	210.0	Fly By	TF
SHANE	WP	N 34° 38' 3.80" W 83° 42' 59.59"	12000.0	Step	210.0	Fly By	TF
EVULE	WP	N 34° 10' 30.41" W 83° 58' 29.23"	12000.0	Step	210.0	Fly By	TF
SMELY	WP	N 33° 59' 59.98" W 84° 5' 45.35"	5000.0	Step	180.0	Fly By	TF
BBOBB	WP	N 33° 54' 59.41" W 84° 5' 32.74"	5000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP SMELY too high.

DME/DME

Return To Summary

Settings:

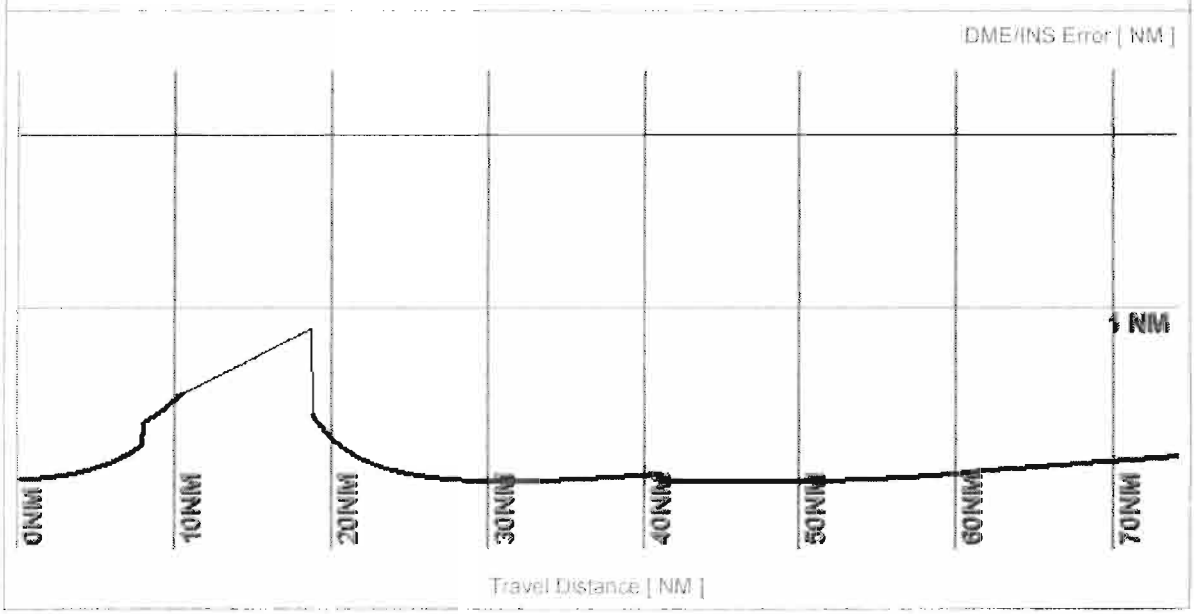
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included

Total Number of DMEs Used: 6

Maximum DME Error: 0.912 NM.

No Critical DMEs were found.

Available DMEs: ODF, HRS, IRQ, RMG, PDK, AHN, ATL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H + ESV	User	NO	1.299	Enabled	58.1 %	57.1 %
2	HRS	N 34° 56' 34.82" W 83° 54' 56.45" E 0	L	Database	NO	1.254	Enabled	50.5 %	52.5 %
3	IRQ	N 33° 42' 26.47" W 82° 9' 43.43" W 4	H + ESV	User	NO	0.858	Enabled	3.2 %	3.3 %
4	RMG	N 34° 9' 45.22" W 85° 7' 9.83" E 1	H + ESV	User	NO	0.912	Enabled	8.0 %	8.3 %
5	AHN	N 33° 56' 51.34" W 83° 19' 29.13" E 0	L + ESV	User	NO	0.912	Enabled	38.6 %	36.3 %
6	PDK	N 33° 52' 32.27" W 84° 17' 55.73" W 2	L	Database	NO	0.912	Enabled	19.8 %	20.0 %

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 52' 42.51" W 83° 34' 40.94"	N 34° 45' 12.67" W 83° 38' 56.64"	8.3

VOR: HRS	Available from N 34° 52' 42.51" W 83° 34' 40.94" to N 34° 45' 12.67" W 83° 38' 56.64"
VOR: ODF	Available from N 34° 52' 42.51" W 83° 34' 40.94" to N 34° 45' 12.67" W 83° 38' 56.64"

User DMEs

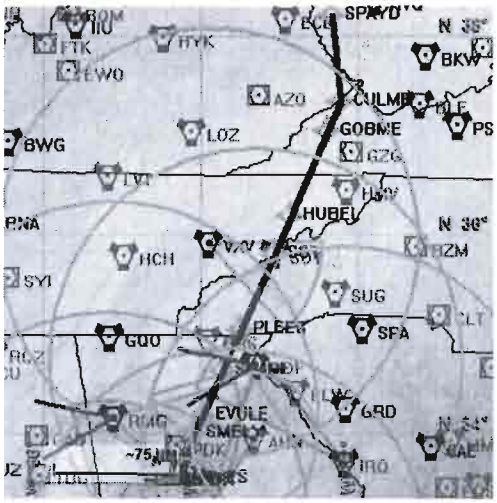
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	AHN	N 33° 56' 51.34" W 83° 19' 29.13" E 0	L	790.0	109.60	AHN	Used
	ESV:	Bearing [True]: 215.0° to 290.0° Bearing [Mag]: 215.0° to 290.0°		Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 14000.0 Ft.			
2	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H	1700.0	113.40	ODF	Used
	Restriction:	Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 241.0° to 281.0°		Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.			
	ESV:	Bearing [True]: 200.0° to 255.0° Bearing [Mag]: 200.0° to 255.0°		Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 14000.0 Ft.			

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
3	RMG	N 34° 9' 45.22" W 85° 7' 9.83" E 1	H	1150.0	115.40	RMG	Used
	Restriction:	Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 240.0° to 280.0°			Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.		
	ESV:	Bearing [True]: 74.0° to 134.0° Bearing [Mag]: 73.0° to 133.0°			Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 16000.0 Ft.		
4	IRQ	N 33° 42' 26.47" W 82° 9' 43.43" W 4	H	420.0	113.90	IRQ	Used
	ESV:	Bearing [True]: 296.0° to 320.0° Bearing [Mag]: 300.0° to 324.0°			Arc Distance: Out to 105.0 NM Altitude: 12000.0 to 20000.0 Ft.		



Name:	Dennis Osterhage
Project Name:	KATL RNAV STARS
Output File:	KATL EVULE1 STAR SPAYD SUMNR 20121120_0620
Procedure Name:	KATL EVULE1
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	11/20/2012 6:20:00 AM
Input File:	KATL EVULE1 STAR SPAYD SUMNR 20121120_0536.txt
Databases:	AVNIS Date: 11/09/2012
	Obstacle Date: 10/20/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓	**Please Check Flyability Results**
DME/DME	✓	
Radars	?	
Comms	?	
TERPS	?	

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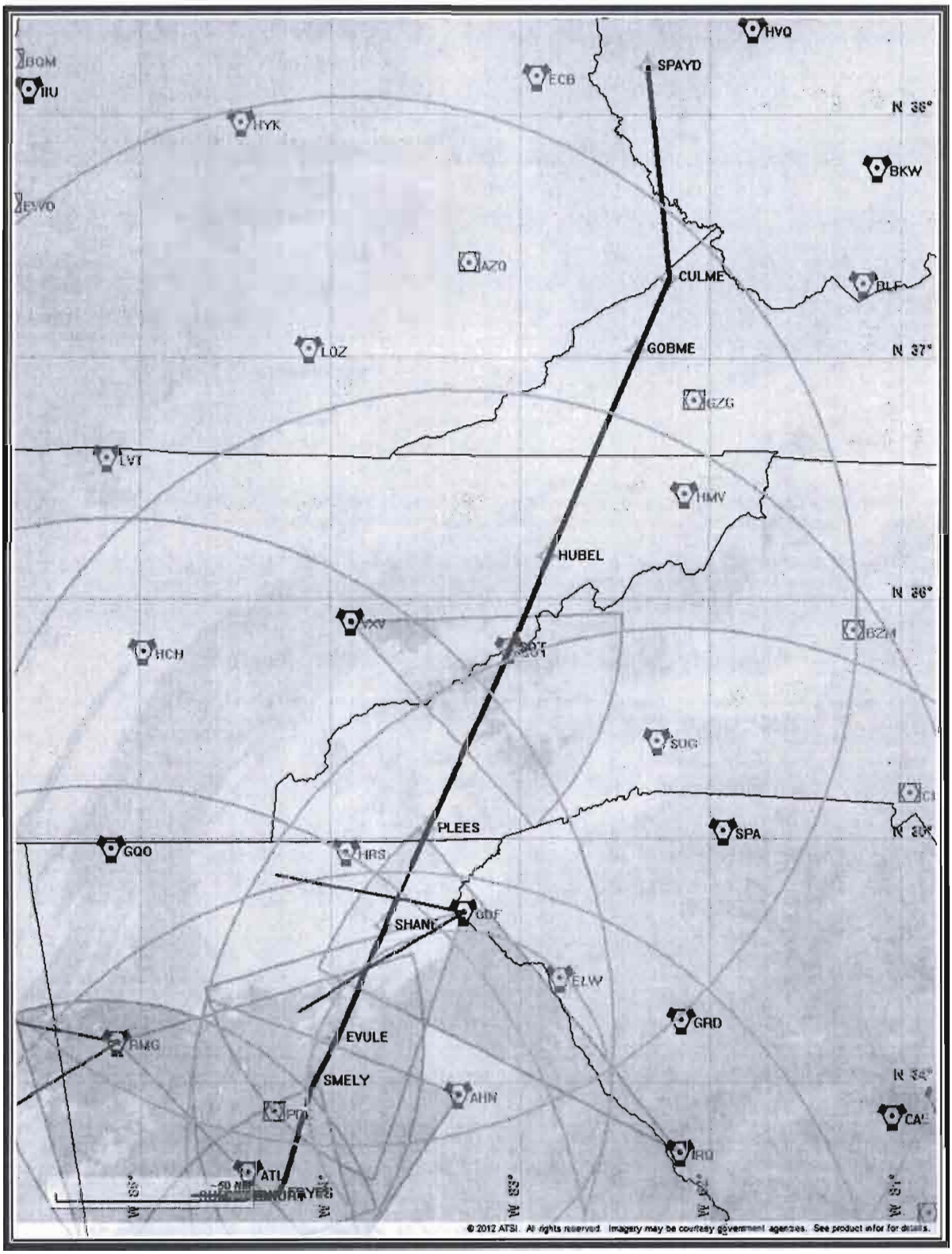
HVQ
SPAYD
ECB
IIU
HYK
N 36°
BKW
AZQ
CULME
LOZ
GOBME
N 37°
GZG
LVT
HMV
HUBEL
N 36°
VXV
HCH
BZM
SUG
PLEES
SPA
GQO
HRS
SHANE
GDF
ELW
GRD
RMG
EVULE
SMELY
AHN
N 34°
IRQ
ATL
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
SPAYD	WP	N 38° 11' 36.56" W 82° 19' 28.69"	18000.0	Step	240.0	Fly By	TF
CULME	WP	N 37° 19' 44.19" W 82° 12' 44.50"	18000.0	Step	240.0	Fly By	TF
GOBME	WP	N 37° 1' 40.02" W 82° 22' 46.62"	18000.0	Step	240.0	Fly By	TF
HUBEL	WP	N 36° 10' 21.11" W 82° 50' 49.19"	18000.0	Step	240.0	Fly By	TF
SOT	WP	N 35° 47' 24.36" W 83° 3' 8.53"	18000.0	Step	240.0	Fly By	TF
PLEES	WP	N 35° 2' 8.27" W 83° 29' 18.01"	18000.0	Step	240.0	Fly By	TF
SHANE	WP	N 34° 38' 3.80" W 83° 42' 59.59"	12000.0	Step	210.0	Fly By	TF
EVULE	WP	N 34° 10' 30.41" W 83° 58' 29.23"	12000.0	Step	210.0	Fly By	TF
SMELY	WP	N 33° 59' 59.98" W 84° 5' 45.35"	5000.0	Step	180.0	Fly By	TF
FRYES	WP	N 33° 32' 12.96" W 84° 16' 34.90"	4000.0	Step	180.0	Fly By	TF
SHURT	WP	N 33° 32' 12.63" W 84° 25' 49.73"	4000.0	Step	180.0	Fly By	TF
STUUF	WP	N 33° 32' 12.53" W 84° 32' 54.88"	4000.0	Step	180.0	Fly By	TF
SHELE	WP	N 33° 32' 11.96" W 84° 38' 47.56"	3000.0	Step	180.0	Fly By	TF
SUMNR	WP	N 33° 32' 11.40" W 84° 44' 46.46"	3000.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan
Aircraft ALTITUDE at Fly-By WP SMELY too high.	

DME/DME

Return To Summary

Settings:

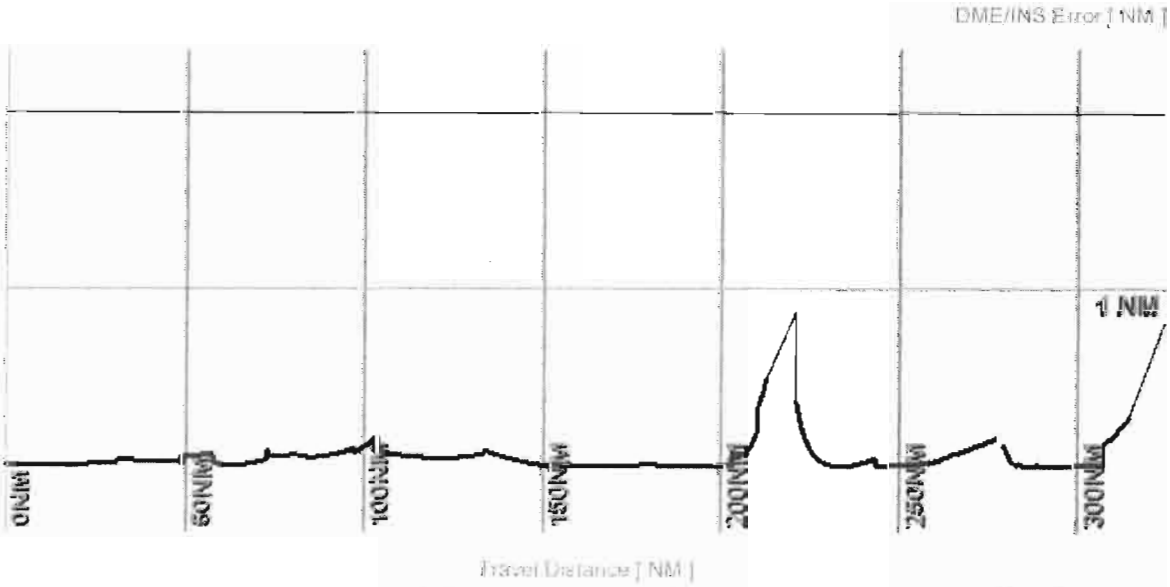
- **RNP:** 2.0
- **Flight Mode:** Manual
- **Line of Sight (DTED Level 0 Max):** Evaluated
- **DME Restrictions:** Evaluated
- **Inertial Drift:** Enabled
  - **Initial Drift:** 0.558 NM
  - **INS Drift Rate:** 8.000 NM/Hour
- **Range Mode:** OSV
- **Co-Frequencies:** Evaluated
- **RNP Edges:** Evaluated
- **Min DME Range:** 3.0 NM
- **Allowed Gap Length:** 4.0 NM
- **DME Types:** VOR/DME , VORTAC , TACAN , and User
- **DME Include Angles:** 30 to 150
- **Critical DMEs:** Allowed
- **DoD Facilities:** Not included
- **Foreign Facilities:** Not included
- **Low & Terminal DMEs:** Included
- **Flight Check DMEs:** Selected
- **Higher Altitudes:** Evaluated
- **Near Maximum Altitude:** Evaluated

Total Number of DMEs Used: 18

Maximum DME Error: 0.913 NM.

No Critical DMEs were found.

Available DMEs: BKW, ECB, HNN, HVQ, PSK, GZG, HMV, VXV, SPA, SOT, ODF, GRD, GQO, HRS, RMG, IRQ, PDK, AHN, LGC, MCN



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BKW	N 37° 46' 49.08" W 81° 7' 24.44" W 6	H	Database	NO	0.913	Enabled	15.1 %	16.2 %
2	HNN	N 38° 45' 14.85" W 82° 1' 34.20" W 3	H	Database	NO	0.913	Enabled	10.4 %	11.2 %
3	ECB	N 38° 9' 30.11" W 82° 54' 36.20" W 2	L	Database	NO	0.913	Enabled	1.6 %	1.7 %
4	HVQ	N 38° 20' 58.84" W 81° 46' 11.68" W 3	H	Database	NO	0.913	Enabled	8.2 %	8.8 %
5	PSK	N 37° 5' 15.74" W 80° 42' 46.44" W 6	H	Database	NO	0.913	Enabled	7.4 %	8.0 %
6	GZG	N 36° 49' 30.38" W 82° 4' 44.32" W 2	L	Database	NO	0.913	Enabled	6.9 %	7.4 %
7	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H + ESV	User	NO	0.913	Enabled	26.0 %	27.8 %
8	HMV	N 36° 26' 13.40" W 82° 7' 46.56" W 4	L	Database	NO	1.021	Enabled	7.2 %	7.7 %
9	SPA	N 35° 2' 1.05" W 81° 55' 37.24" W 2	H	Database	NO	0.913	Enabled	13.6 %	14.6 %
10	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H + ESV	User	NO	1.298	Enabled	24.1 %	23.3 %
11	SOT	N 35° 47' 24.36" W 83° 3' 8.53" W 8	L	Database	NO	0.913	Enabled	7.0 %	7.5 %
12	HRS	N 34° 56' 34.82" W 83° 54' 56.45" E 0	L	Database	NO	0.869	Enabled	16.2 %	16.5 %
13	RMG	N 34° 9' 45.22" W 85° 7' 9.83" E 1	H + ESV	User	NO	0.913	Enabled	3.5 %	3.4 %
14	IRQ	N 33° 42' 26.47" W 82° 9' 43.43" W 4	H + ESV	User	NO	0.867	Enabled	0.8 %	0.8 %
15	AHN	N 33° 56' 51.34" W 83° 19' 29.13" E 0	L + ESV	User	NO	1.116	Enabled	15.6 %	13.5 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	PDK	N 33° 52' 32.27" W 84° 17' 55.73" W 2	L	Database	NO	0.952	Enabled	12.7 %	11.1 %
17	LGC	N 33° 2' 56.83" W 85° 12' 22.40" E 1	H + ESV	User	NO	0.913	Enabled	6.0 %	4.9 %
18	MCN	N 32° 41' 28.26" W 83° 38' 49.86" E 1	H + ESV	User	NO	0.913	Enabled	5.3 %	4.4 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	BKW	HNN	ECB	HVQ		
31.3	BKW	HNN	PSK	HVQ	GZG	
51.1	BKW	HNN	PSK	HVQ	GZG	
71.8	BKW	VXV	HMV	HVQ	GZG	
103.4	SOT	VXV	HMV	SPA	GZG	
127.8	SOT	VXV	ODF	SPA		
152.6	SOT	VXV	ODF	SPA	GRD	
176.9	SOT	VXV	HRS	SPA	GRD	ODF
192.6	ODF	VXV	HRS	SPA	GRD	GQO
202.8	ODF	IRQ	HRS	SPA	RMG	GRD
229.3	ODF	IRQ	HRS			
243.8	ODF	RMG	HRS	AHN	PDK	IRQ
259.4	ODF	RMG	PDK	AHN		
271.4	ODF	LGC	PDK	AHN	MCN	
299.8	MCN	LGC	PDK	AHN		
308.4	AHN	LGC	PDK			
314.4	AHN	LGC	PDK			
319.2	PDK					

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 34° 52' 43.73" W 83° 34' 40.22"	N 34° 45' 10.27" W 83° 38' 58.00"	8.3
	VOR: HRS	Available from N 34° 52' 43.73" W 83° 34' 40.22" to N 34° 45' 10.27" W 83° 38' 58.00"	
	VOR: ODF	Available from N 34° 52' 43.73" W 83° 34' 40.22" to N 34° 45' 10.27" W 83° 38' 58.00"	
2	N 33° 32' 12.52" W 84° 33' 4.03"	N 33° 32' 11.40" W 84° 44' 45.88"	9.8
	VOR: ATL	Available from N 33° 32' 12.52" W 84° 33' 4.03" to N 33° 32' 11.40" W 84° 44' 45.88"	
	VOR: FTYI	Available from N 33° 32' 12.52" W 84° 33' 4.03" to N 33° 32' 11.40" W 84° 44' 45.88"	
	VOR: PDK	Available from N 33° 32' 12.52" W 84° 33' 4.03" to N 33° 32' 11.40" W 84° 44' 45.88"	
	VOR: LGC	Available from N 33° 32' 11.85" W 84° 39' 46.79" to N 33° 32' 11.40" W 84° 44' 45.88"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	LGC	N 33° 2' 56.83" W 85° 12' 22.40" E 1	H	790.0	115.60	LGC	Used
	ESV:	Bearing [True]: 343.0° to 70.0° Bearing [Mag]: 342.0° to 69.0°		Arc Distance: Out to 77.0 NM Altitude: 4000.0 to 18000.0 Ft.			
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H	1289.6	116.40	VXV	Used
	ESV:	Bearing [True]: 88.0° to 137.0° Bearing [Mag]: 91.0° to 140.0°		Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 24000.0 Ft.			
3	MCN	N 32° 41' 28.26" W 83° 38' 49.86" E 1	H	381.3	114.20	MCN	Used
	Restriction:	Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 240.0° to 280.0°		Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.			
	ESV:	Bearing [True]: 289.0° to 345.0° Bearing [Mag]: 288.0° to 344.0°		Arc Distance: Out to 80.0 NM Altitude: 4000.0 to 14000.0 Ft.			
4	AHN	N 33° 56' 51.34" W 83° 19' 29.13" E 0	L	790.0	109.60	AHN	Used
	ESV:	Bearing [True]: 215.0° to 290.0° Bearing [Mag]: 215.0° to 290.0°		Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 14000.0 Ft.			

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H	1700.0	113.40	ODF	Used
	Restriction:	Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 241.0° to 281.0°			Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.		
	ESV:	Bearing [True]: 200.0° to 255.0° Bearing [Mag]: 200.0° to 255.0°			Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 14000.0 Ft.		
6	RMG	N 34° 9' 45.22" W 85° 7' 9.83" E 1	H	1150.0	115.40	RMG	Used
	Restriction:	Bearing [True]: 241.0° to 281.0° Bearing [Mag]: 240.0° to 280.0°			Distance: Beyond 0.0 NM Altitude: Below 3000.0 Ft.		
	ESV:	Bearing [True]: 74.0° to 134.0° Bearing [Mag]: 73.0° to 133.0°			Arc Distance: Out to 80.0 NM Altitude: 7000.0 to 16000.0 Ft.		
7	IRQ	N 33° 42' 26.47" W 82° 9' 43.43" W 4	H	420.0	113.90	IRQ	Used
	ESV:	Bearing [True]: 296.0° to 320.0° Bearing [Mag]: 300.0° to 324.0°			Arc Distance: Out to 105.0 NM Altitude: 12000.0 to 20000.0 Ft.		