Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 10/31/2006	Task #: 2006071410720503001	Request #: 20060714107205
Procedure: SID CHUUC (RNAV) ONE ST. LOUIS MO KSTL		Airport ID: KSTL	Airport: LAMBERT-ST LOUIS INTL		Reimbursable #:
City: ST LOUIS	**ST:** MO	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	**Fac. Type:**		**Specialist:** STEVE NELSON		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/29/2012	06/12/2012	JILL OLSON	
QA:	06/12/2012	06/12/2012	STEVEN SZUKALA	
Liaison:	06/12/2012		MARY MCDONALD	DME/DME; REPLACEMENT - 15B, FIG.

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

ST LOUIS, MO LAMBERT-ST LOUIS INTL (KSTL) CHUUC ONE (RNAV) (SID) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

ATTACHED FORMS: ESV REPORTS; 8260-15B; 8260-15C; 8260-2(S): ALLNT, ORIG; CHUUC, ORIG; DAFUS, ORIG; ELDBB, ORIG; GEJAY, ORIG; HAGEE, ORIG; HEFNR, ORIG; LUUBE, ORIG; MYERZ-INT, REV 4; PYUNG, ORIG; WAARN, ORIG; (INFO ONLY) MALDEN (MAW) VTAC, REV 19; WALNUT RIDGE (ARG) VTAC, REV 21.

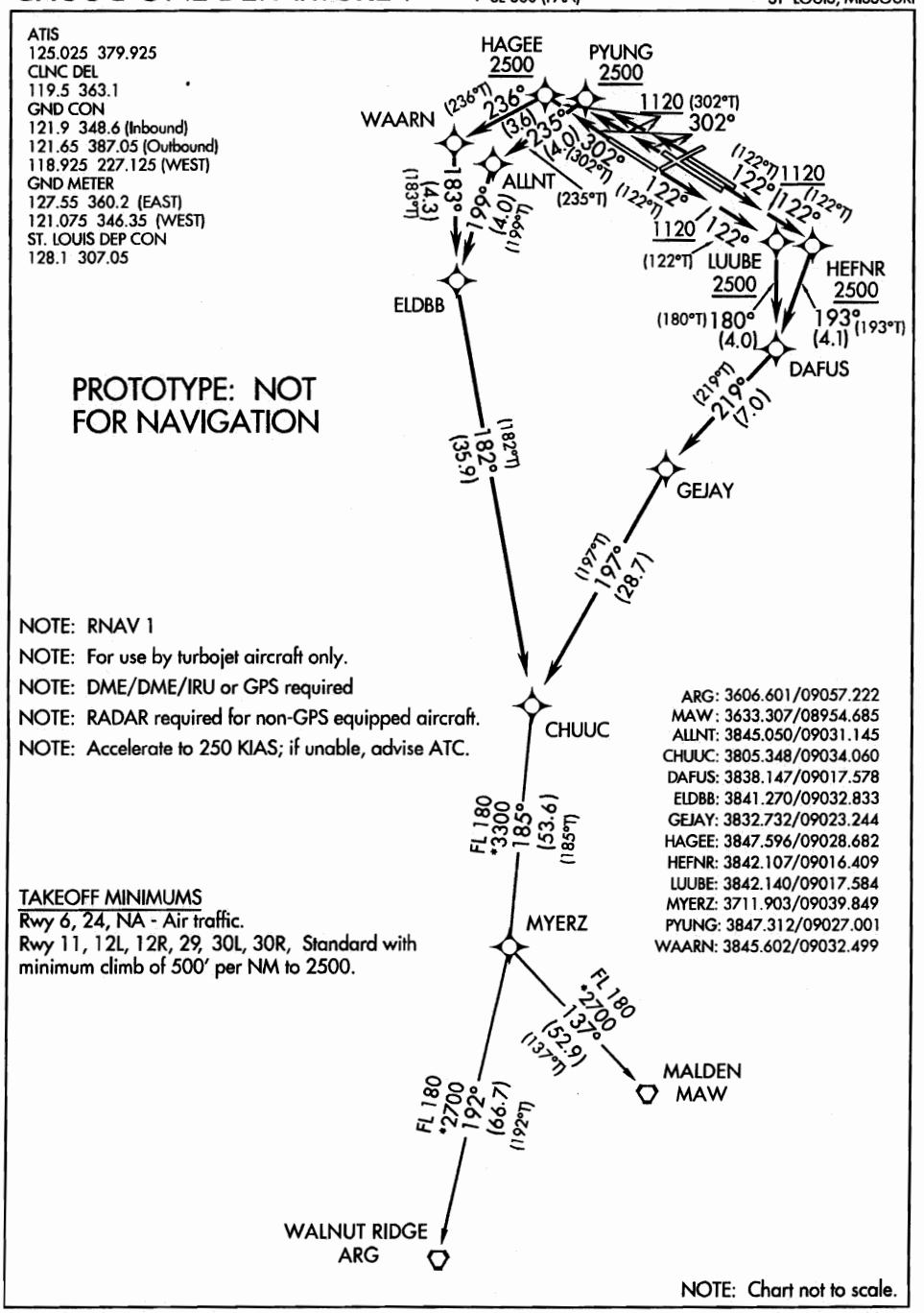
CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.0414
REPLACEMENT PACKAGE TO CORRECTED MEA'S TO MATCH DME/DME PRORUNS. SEE ATTACHED LIST FOR ALL AFFECTED PROCEDURES.

(CHUUC1.CHUUC) FIG

CHUUC ONE DEPARTURE (RNAV)

SL-360 (FAA)

ST LOUIS/ LAMBERT-ST LOUIS INTL (STL)
ST LOUIS, MISSOURI



CHUUC ONE DEPARTURE (RNAV)

ST LOUIS, MISSOURI
ST LOUIS/LAMBERT-ST LOUIS INTL (STL)

(CHUUC1.CHUUC) FIG

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 122° to 1120, then direct LUUBE, cross LUUBE at or above 2500, then on depicted route to CHUUC. Thence. . . .

TAKEOFF RUNWAY 12L,12R: Climb heading 122° to 1120, then direct HEFNR, cross HEFNR at or above 2500, then on depicted route to CHUUC. Thence. . . .

TAKEOFF RUNWAY 29: Climb heading 302° to 1120, then direct HAGEE, cross HAGEE at or above 2500, then on depicted route to CHUUC. Thence. . . .

TAKEOFF RUNWAY 30L,30R: Climb heading 302° to 1120, then direct PYUNG, cross PYUNG at or above 2500, then on depicted route to CHUUC. Thence. . . .

. . . .(TRANSITION). Maintain 5000, expect filed altitude 10 minutes after departure.

MALDEN TRANSITION (CHUUC1.MAW)

WALNUT RIDGE TRANSITION (CHUUC1.ARG)

TAKEOFF OBSTACLE NOTES

Rwy 11: Multiple signs, trees, towers and bldgs beginning 2348' from DER, 205' left of centerline, up to 219'AGL/774' MSL. Multiple signs, trees, towers and bldgs beginning 2363' from DER, 489' right of centerline up to 114' AGL/694' MSL.

Rwy 12L: Tree 1331' from DER, 667' right of centerline, 75' AGL/654' MSL.

Rwy 12R: Traffic signal and sign beginning 1413' from DER, 702' right of centerline, up to 17' AGL/672' MSL. Tree 1930' from DER, 372' left of centerline, 67' AGL/636' MSL.

Rwy 30L: Multiple trees, poles and roads beginning 906' from DER, 600' left of centerline, up to 84' AGL/663' MSL. OL on LOC 614' from DER, on centerline 9' AGL/558' MSL. Multiple trees, poles, roads, terrain and bldgs beginning 283' from DER, 185' right of centerline, up to 65' AGL/684' MSL.

Rwy 30R: OL on GS 1895' from DER, 899' left of centerline 28' AGL/587' MSL. Multiple OL on bldgs, trees and electrical system beginning 2039' from DER, 387' right of centerline, up to 81' AGL/670' MSL.

PROTOTYPE: NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SPRINGFIELD	City : SPRINGFIELD	Ident : SGF	State : MO
Type/Class : TACR	Frequency : M1203	Reference No.: 10028947	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704254-034	86	114	137	180	450

Requirement: ESTABLISH AN ESV FOR THE CHUUK RNAV SID AT STL		
Signature: Mallett Gary	Routing Symbol: AJV-C22	Date: 02/12/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704254-034	86	114	137	180	450	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE CHUUK RNAV SID AT STLApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: BOWERS MIKE	Routing Symbol:	Date: 03/09/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704254-034	86	114	137	180	450	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE CHUUK RNAV SID AT STLApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol.	Date: 03/15/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704254-034	86	114				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MEMPHIS	City : MEMPHIS	Ident : MEM	State : TN
Type/Class : TACR	Frequency : M1209	Reference No.: 10051124	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 772982-016	330	340	118	160	350

Requirement: ESTABLISH ESV FOR THE CHUUK SID AT STL.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 05/25/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 772982-016	330	340	118	160	350	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR THE CHUUK SID AT STL.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 06/01/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 772982-016	330	340	118	160	350	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR THE CHUUK SID AT STL.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/03/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 772982-016	330	340				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MAPLES	City : MAPLES	Ident : MAP	State : MO
Type/Class : TACR	Frequency : M1168	Reference No.: 12028926	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 701363-013	71	98	65	120	180

Requirement: REQUIRED FOR NEW CHUUC1 RNAV SID FROM STL		
Signature: Enander Scott	Routing Symbol: AJV-C21	Date: 02/06/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701363-013	71	98	65	120	180	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 RNAV SID FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: BOWERS MIKE	Routing Symbol:	Date: 02/10/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701363-013	71	98	65	120	180	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 RNAV SID FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 02/13/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 701363-013	71	98				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SAINT LOUIS	City : SAINT LOUIS	Ident : STL	State : MO
Type/Class : TACR	Frequency : M1208	Reference No.: 12028927	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704271-059	179	189	90	120	160

Requirement: REQUIRED FOR NEW CHUUC1 RNAV SID FROM STL		
Signature: Enander Scott	Routing Symbol: AJV-C21	Date: 02/06/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-059	179	189	90	120	160	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 RNAV SID FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: BOWERS MIKE	Routing Symbol:	Date: 02/10/2012

Expanded Service Volume Data: (Super FMO)

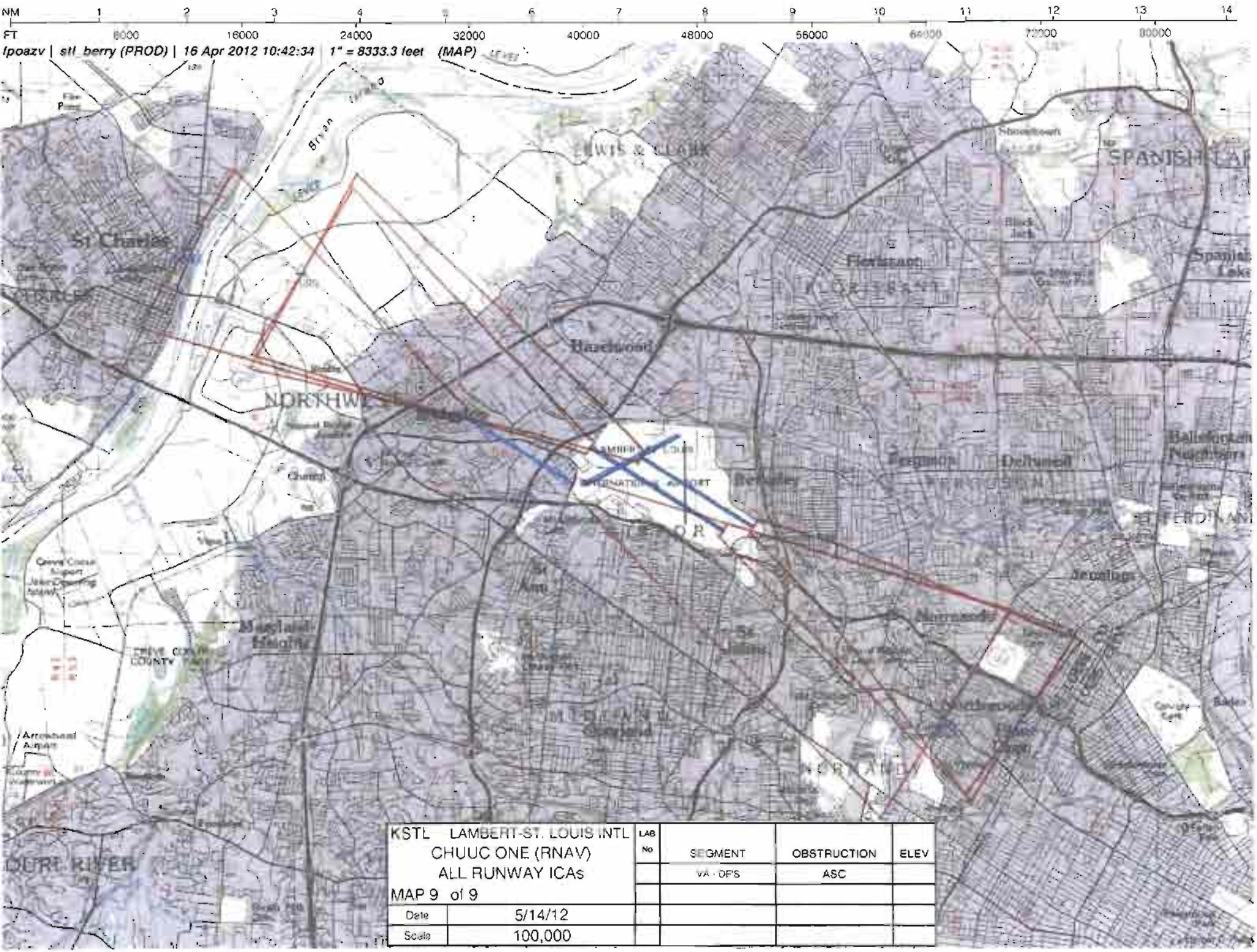
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-059	179	189	90	120	160	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 RNAV SID FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 02/13/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-059	179	189				

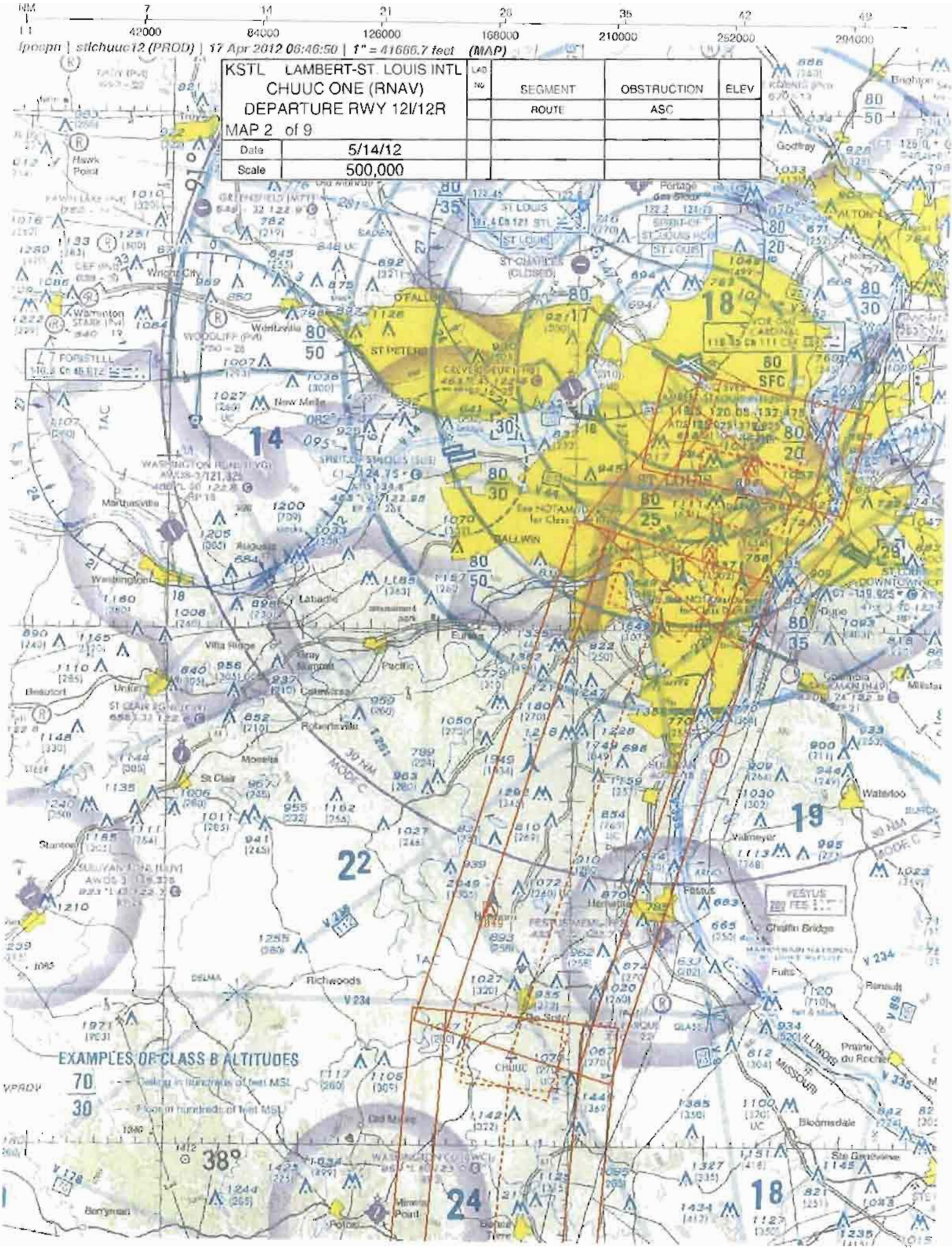
Requirement/Remarks:		
Signature:	Routing Symbol:	Date:



KSTL LAMBERT-ST. LOUIS INTL CHUUC ONE (RNAV) ALL RUNWAY ICAs MAP 9 of 9		LAB No	SEGMENT	OBSTRUCTION	ELEV
			VA - DFS	ASC	
Date	5/14/12				
Scale	100,000				

fposgn | stlchuuc11 (PROD) | 17 Apr 2012 06:35:34 | 1" = 41666.7 feet (MAP)

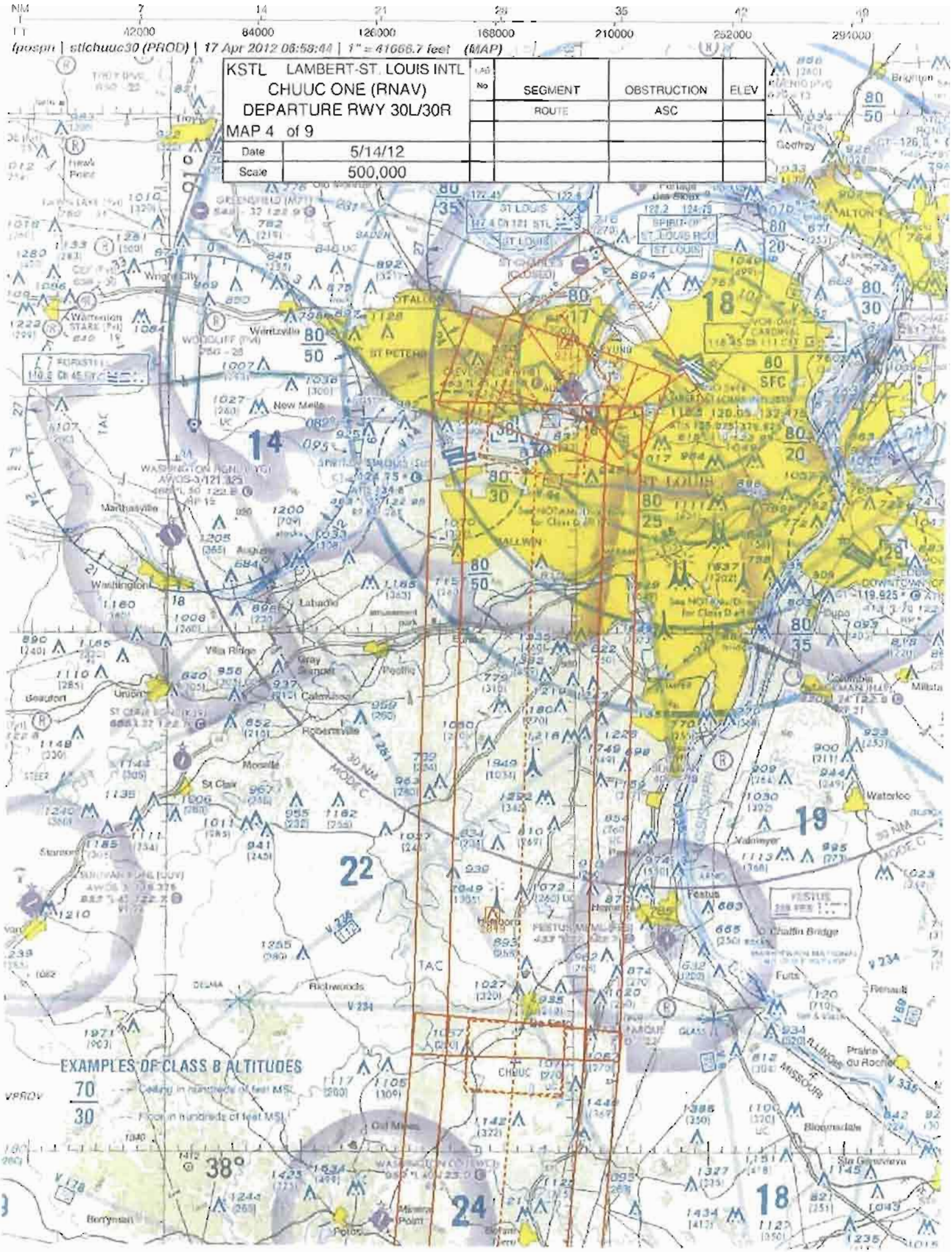
KSTL LAMBERT-ST. LOUIS INTL CHUUC ONE (RNAV) DEPARTURE RWY 11		LAB No	SEGMENT	OBSTRUCTION	ELEV
			ROUTE	ASC	
MAP 1 of 9					
Date	5/14/12				
Scale	500,000				



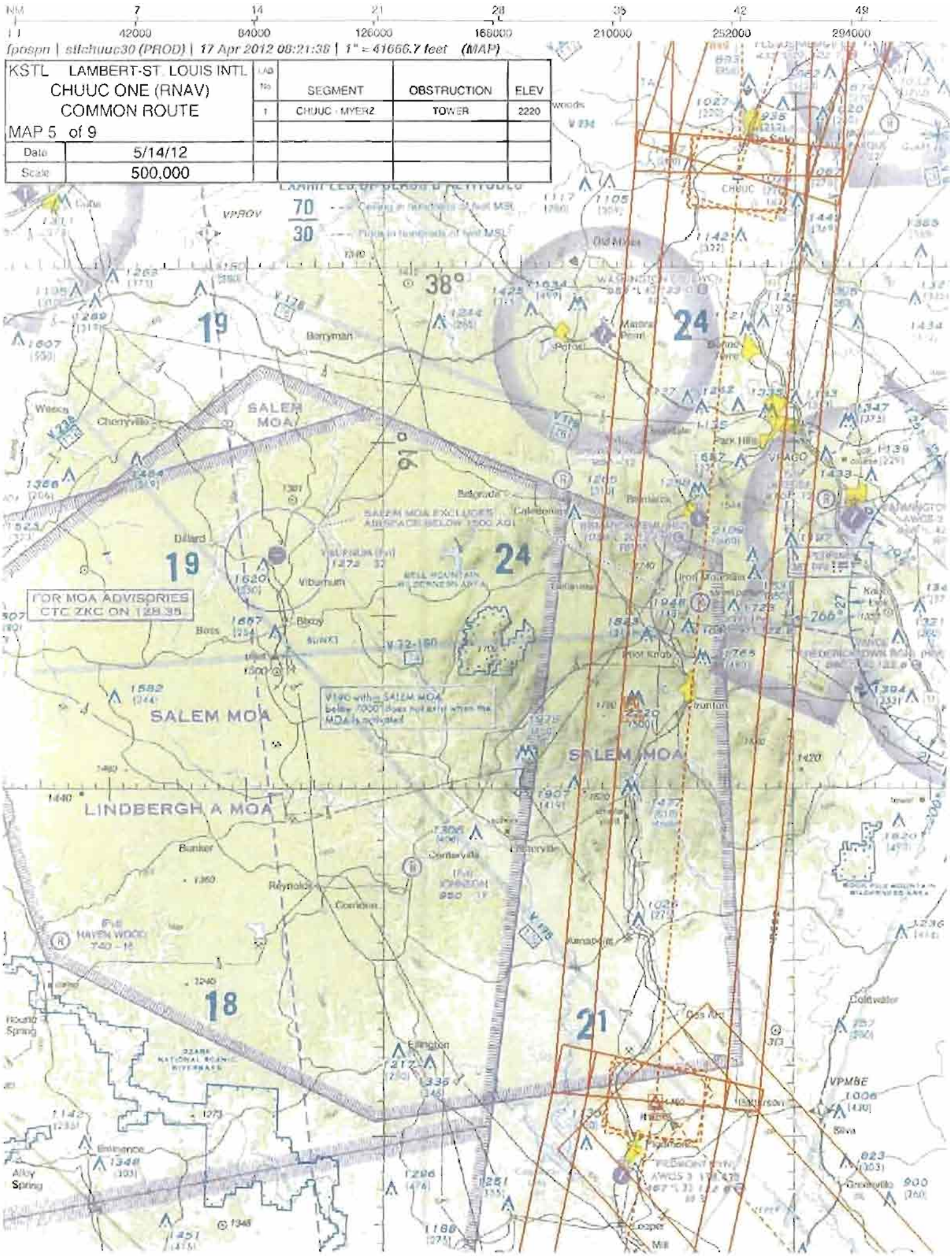
lpospn | stlchuuc12 (PROD) | 17 Apr 2012 06:46:50 | 1" = 41666.7 feet (MAP)
KSTL LAMBERT-ST. LOUIS INTL
CHUUC ONE (RNAV)
DEPARTURE RWY 12I/12R
MAP 2 of 9
Date 5/14/12
Scale 500,000
LAB No
SEGMENT
ROUTE
OBSTRUCTION
ASC
ELEV
EXAMPLES OF CLASS B ALTITUDES
70
30
Ceiling in hundreds of feet MSL
Floor in hundreds of feet MSL
ST LOUIS
ST PETERS
FORISTELL
Wentzville
Warrenton
Washington
Marthasville
Labadie
Villa Ridge
Pacific
Robertsville
St Clair
Stanton
Richwoods
Festus
Hematite
Chalfin Bridge
Waterloo
Godfray
Alton
Brighton
Bloomsdale
Ste Genevieve
Potosi
Berryman
Mineral Point
Old Mines
Dupo
Columbia
Beaufort
Union
Sullivan
Moselle
Catawissa
Gray Summit
Eureka
Ballwin
New Melle
Wright City
Hawk Point
Troy
Portage des Sioux
Prairie du Rocher
Renault
Fults
Valmeyer
Delmar
CHUUC
38°
14
18
19
22
24

fpospn | stlchuuc29 (PROD) | 17 Apr 2012 06:55:54 | 1" = 41666.7 feet (MAP)

KSTL LAMBERT-ST. LOUIS INTL CHUUC ONE (RNAV) DEPARTURE RWY 29 MAP 3 of 9		LAB NO	SEGMENT	OBSTRUCTION	ELEV
			ROUTE	ASC	
Date	5/14/12				
Scale	500,000				

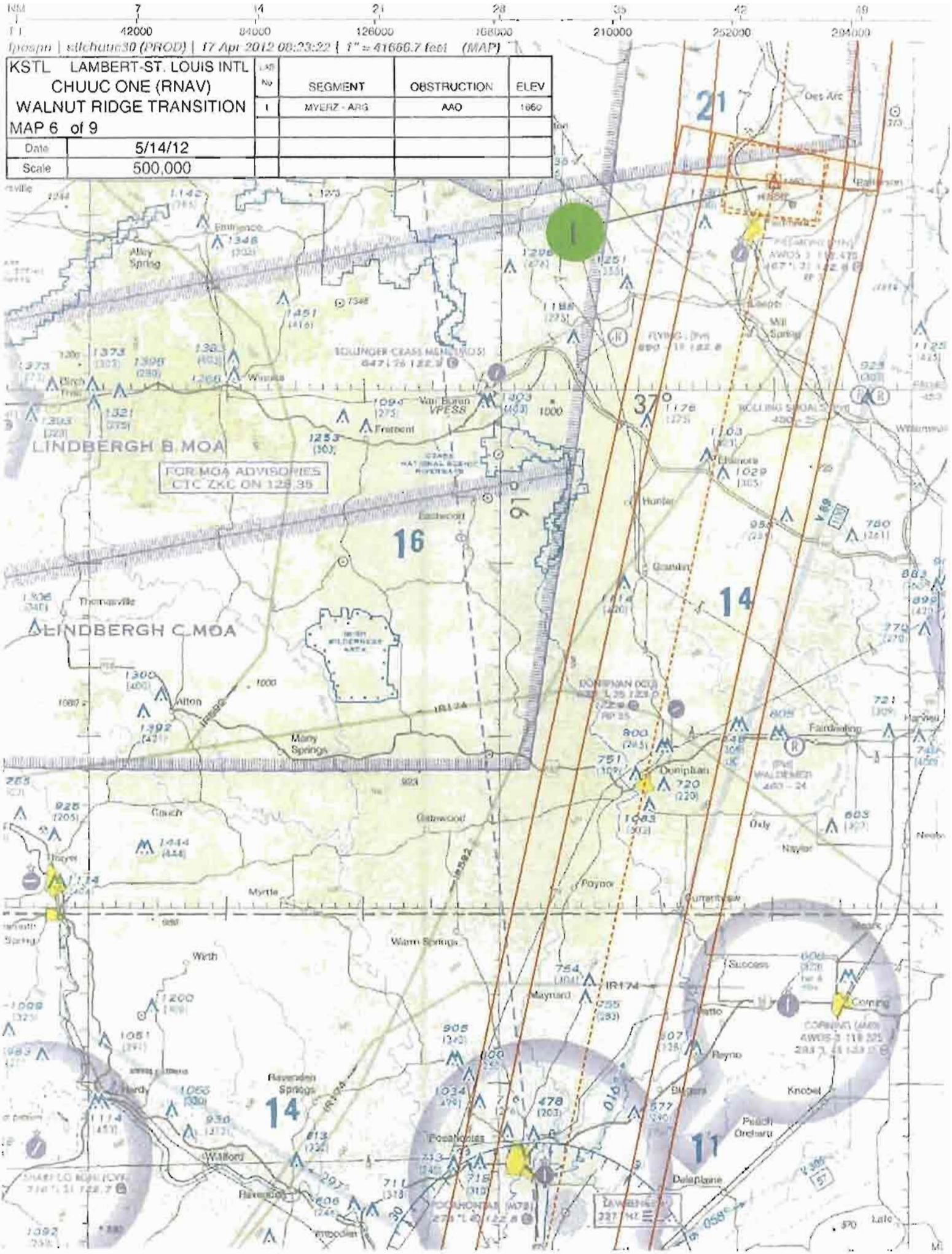


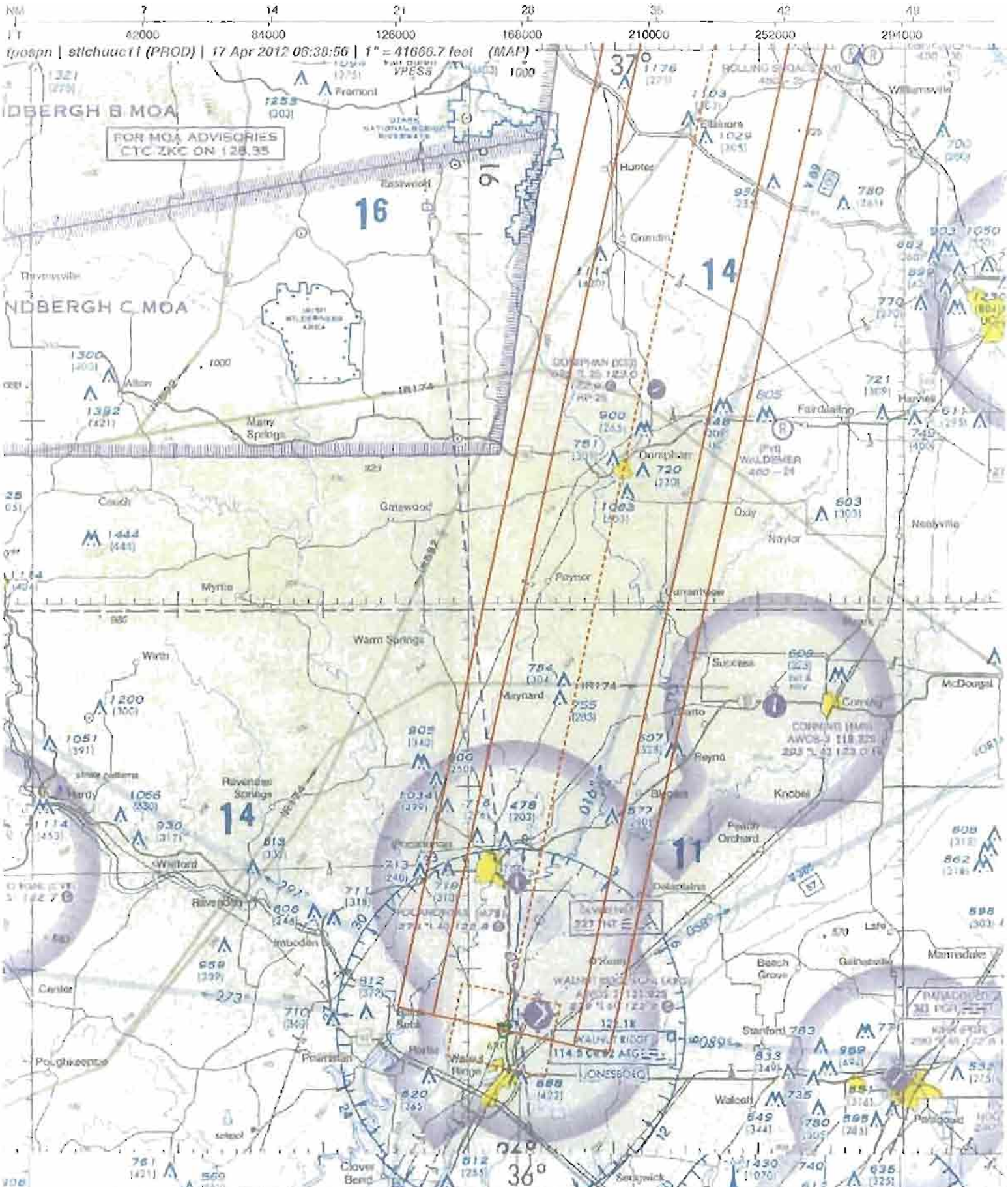
NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fpospn | stlchuuc30 (PROD) | 17 Apr 2012 06:58:44 | 1" = 41666.7 feet (MAP)
KSTL LAMBERT-ST. LOUIS INTL
CHUUC ONE (RNAV)
DEPARTURE RWY 30L/30R
MAP 4 of 9
Date 5/14/12
Scale 500,000
LAB No
SEGMENT
OBSTRUCTION
ELEV
ROUTE
ASC
EXAMPLES OF CLASS B ALTITUDES
70 Ceiling in hundreds of feet MSL
30 Floor in hundreds of feet MSL
ST LOUIS
ST PETERS
Wentzville
New Melle
Marthasville
Washington
Labadie
Villa Ridge
Gray Summit
Pacific
Uniontown
Beaufort
Robertsville
Moselle
St Clair
Starkoe
Richwoods
Hillsboro
Festus
Waterloo
Valmeyer
Chaffin Bridge
Fults
Renault
Prairie du Rocher
Bloomsdale
Sta Genevieve
Old Mines
Potosi
Berryman
Godfrey
Brighton
Dupo
Columbia
Millstadt
Hawk Point
Wright City
Warrenton
Troy
Ballwin
Fenton
Ellisville
Chuuc
Mississippi
Missouri
Illinois
Mode C
Tac
Sfc



NM 7 14 21 28 35 42 49
42000 84000 126000 168000 210000 252000 294000
fpospn | stlchuuc30 (PROD) | 17 Apr 2012 08:21:38 | 1" = 41666.7 feet (MAP)
KSTL LAMBERT-ST. LOUIS INTL
CHUUC ONE (RNAV)
COMMON ROUTE
MAP 5 of 9
Date 5/14/12
Scale 500,000
LAB No
SEGMENT
OBSTRUCTION
ELEV
1
CHUUC - MYERZ
TOWER
2220
70
30
38°
19
24
18
21
SALEM MOA
LINDBERGH A MOA
FOR MOA ADVISORIES CTC ZKC ON 128.35
SALEM MOA EXCLUDES AIRSPACE BELOW 1500 AGL
V190 within SALEM MOA below 7000' does not exist when the MOA is activated
Berryman
Potosi
Cherryville
Dillard
Viburnum
Bixby
Belgrade
Caledonia
Bismarck
Iron Mountain
Pilot Knob
Ironton
Bunker
Reynolds
Corridon
Centerville
Ellington
Ellington
Cooper
Mill
Silva
Greenville
Coldwater
Alley Spring
Eminence
Round Spring
Weeks
Old Mines
Park Hills
VPROV
VPMBE
CHUUC

KSTL LAMBERT-ST. LOUIS INTL CHUUC ONE (RNAV) WALNUT RIDGE TRANSITION MAP 6 of 9		LAB No	SEGMENT	OBSTRUCTION	ELEV
		1	MYERZ - ARG	AAO	1660
Date	5/14/12				
Scale	500,000				





KSTL LAMBERT-ST. LOUIS INTL	LAB No	SEGMENT	OBSTRUCTION	ELEV
CHUUC ONE (RNAV)				
WALNUT RIDGE TRANSITION	1	MYERZ - ARG	AAO	1660
MAP 7 of 9				
Date 5/14/12				
Scale 500,000				

KSTL LAMBERT-ST. LOUIS INTL CHUUC ONE (RNAV) MALDEN TRANSITION	LAB No	SEGMENT	OBSTRUCTION	ELEV
	1	MYERZ - ARG	AAO	1660
MAP 8 of 9				
Date: 5/14/12				
Scale: 500,000				

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	ONE	CHUUC1.CHUUC	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 11: CLIMB HEADING 122.17 TO 1120, THEN DIRECT LUUBE, CROSS LUUBE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO CHUUC. THENCE...
TAKEOFF RWY 12L, 12R: CLIMB HEADING 122.19 TO 1120, THEN DIRECT HEFNR, CROSS HEFNR AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO CHUUC. THENCE...
TAKEOFF RWY 29: CLIMB HEADING 302.18 TO 1120, THEN DIRECT HAGEE, CROSS HAGEE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO CHUUC. THENCE...
TAKEOFF RWY 30L: CLIMB HEADING 302.20 TO 1120, THEN DIRECT PYUNG, CROSS PYUNG AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO CHUUC. THENCE...
TAKEOFF RWY 30R: CLIMB HEADING 302.21 TO 1120, THEN DIRECT PYUNG, CROSS PYUNG AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO CHUUC. THENCE...

... (TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
WALNUT RIDGE	CHUUC1.ARG	CHUUC	MYERZ	TRACK 184.95	53.58	FL180	3300	
		MYERZ	ARG VORTAC	TRACK 192.19	66.70	FL180	2700	
MALDEN	CHUUC1.MAW	CHUUC	MYERZ	TRACK 184.95	53.58	FL180	3300	
		MYERZ	MAW VORTAC	TRACK 136.54	52.90	FL180	2700	
MYERZ	CHUUC1.MYERZ	CHUUC	MYERZ	TRACK 184.95	53.58	FL180	3300	

QUALITY

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	ONE	CHUUC1.CHUUC	NONE		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: ACCELERATE TO 250 KIAS; IF UNABLE, ADVISE ATC.

TAKEOFF MINIMUMS:
RWY 6, 24, NA - AIR TRAFFIC.
RWY 11, 12L, 12R, 29, 30L, 30R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2500.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 11, MULTIPLE SIGNS, TREES, TOWERS, AND BLDGS BEGINNING 2348 FT FROM DER, 205 FT LEFT OF CENTERLINE, UP TO 219 FT AGL/774 FT MSL. MULTIPLE SIGNS, TREES, TOWERS, AND BLDGS BEGINNING 2363 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 114 FT AGL/694 FT MSL.

NOTE: RWY 12L, TREE 1331 FT FROM DER, 667 FT RIGHT OF CENTERLINE, 75 FT AGL/654 FT MSL.

NOTE: RWY 12R, TRAFFIC SIGNAL AND SIGN BEGINNING 1413 FT FROM DER, 702 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/672 FT MSL. TREE 1930 FT FROM DER, 372 FT LEFT OF CENTERLINE, 67 FT AGL/636 FT MSL.

NOTE: RWY 30L, MULTIPLE TREES, POLES, AND ROADS BEGINNING 906 FT FROM DER, 600 FT LEFT OF CENTERLINE, UP TO 84 FT AGL/663 FT MSL. OL ON LOC 614 FT FROM DER, ON CENTERLINE, 9 FT AGL/558 FT MSL. MULTIPLE TREES, POLES, ROADS, TERRAIN, AND BLDGS BEGINNING 283 FT FROM DER, 185 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/684 FT MSL.

NOTE: RWY 30R, OL ON GS 1895 FT FROM DER, 899 FT LEFT OF CENTERLINE, 28 FT AGL/587 FT MSL. MULTIPLE OL ON BLDGS, TREES, AND ELECTRICAL SYSTEM BEGINNING 2039 FT FROM DER, 387 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/670 FT MSL.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSTL 00 EPOCH YR: 2000.
DME/DME ASSESSMENT: SAT (RNP 2.0)

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	ONE	CHUUC1.CHUUC	NONE		

AIRPORTS SERVED:

LAMBERT-ST. LOUIS INTL	ST. LOUIS, MO

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, GND METER, TOWER, DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:

QUALITY 1 CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	ONE	CHUUC1.CHUUC	NONE		

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

JILL OLSON (STEVEN NELSON) AJV-353 05/14/2012

APPROVED BY:

LARRY STROUT AVJ-353

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, STL DEP CON, ZKC ARTCC

CHANGES:

ORIGINAL

REASONS:

FPT REQUEST

06/21/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/14/2012.
1. CHANGED MEA ALTITUDE FROM 10500 TO FL180 FOR SEGMENT CHUUC TO MYERZ.

06/22/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/21/2012.
1. ADDED MYERZ TRANSITION.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	ONE	CHUUC1.CHUUC	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW11 (AER)	384535.83N/0902435.55W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.17	-			CG 500 FT/NM TO 2500
LUUBE	384208.40N/0901735.03W	Y	FB	DF	-	-	AT/ABOVE 2500		
DAFUS	383808.82N/0901734.70W	Y	FB	TF	179.94	3.99			
GEJAY	383243.89N/0902314.64W	Y	FB	TF	219.42	7.00			
CHUUC	380520.86N/0903403.58W	Y	FB	TF	197.34	28.65			
RW12L (AER)	384506.41N/0902158.66W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO 2500
HEFNR	384206.39N/0901624.55W	Y	FB	DF	-	-	AT/ABOVE 2500		
DAFUS	383808.82N/0901734.70W	Y	FB	TF	193.04	4.06			
GEJAY	383243.89N/0902314.64W	Y	FB	TF	219.42	7.00			
CHUUC	380520.86N/0903403.58W	Y	FB	TF	197.34	28.65			
RW12R (AER)*	384511.59N/0902239.98W*	N	-	-	-	-			*DISPL THLD (467)
1120MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO 2500
HEFNR	384206.39N/0901624.55W	Y	FB	DF	-	-	AT/ABOVE 2500		
DAFUS	383808.82N/0901734.70W	Y	FB	TF	193.04	4.06			
GEJAY	383243.89N/0902314.64W	Y	FB	TF	219.42	7.00			
CHUUC	380520.86N/0903403.58W	Y	FB	TF	197.34	28.65			
RW29 (AER)	384448.46N/0902259.39W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.18	-			CG 500 FT/NM TO 2500
HAGEE	384735.74N/0902840.90W	Y	FB	DF	-	-	AT/ABOVE 2500		
WAARN	384536.12N/0903229.93W	Y	FB	TF	236.31	3.59			
ELDBB	384116.21N/0903249.96W	Y	FB	TF	183.46	4.34			
CHUUC	380520.86N/0903403.58W	Y	FB	TF	181.55	35.90			
RW30L (AER)*	384417.08N/0902049.42W*	N	-	-	-	-			*DISPL THLD (201)
1120 MSL	-	-	-	VA	302.20	-			CG 500 FT/NM TO 2500
PYUNG	384718.73N/0902700.07W	Y	FB	DF	-	-	AT/ABOVE 2500		
ALLNT	384502.97N/0903108.69W	Y	FB	TF	235.13	3.95			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	ONE	CHUUC1.CHUUC	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
ELDBB	384116.21N/0903249.96W	Y	FB	TF	199.29	4.00			
CHUUC	380520.86N/0903403.58W	Y	FB	TF	181.55	35.90			
RW30R (AER)	384418.99N/0902022.51W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.21	-			CG 500 FT/NM TO 2500
PYUNG	384718.73N/0902700.07W	Y	FB	DF	-	-	AT/ABOVE 2500		
ALLNT	384502.97N/0903108.69W	Y	FB	TF	235.13	3.95			
ELDBB	384116.21N/0903249.96W	Y	FB	TF	199.29	4.00			
CHUUC	380520.86N/0903403.58W	Y	FB	TF	181.55	35.90			
CHUUC	380520.86N/0903403.58W	Y	-	IF	-	-			CHUUC1.ARG
MYERZ	371154.18N/0903950.95W	Y	FB	TF	184.95	53.58			
ARG VORTAC	360636.07N/0905713.30W	Y	FB	TF	192.19	66.70			
CHUUC	380520.86N/0903403.58W	Y	-	IF	-	-			CHUUC1.MAW
MYERZ	371154.18N/0903950.95W	Y	FB	TF	184.95	53.58			
MAW VORTAC	363318.41N/0895441.12W	Y	FB	TF	136.54	52.90			
CHUUC	380520.86N/0903403.58W	Y	-	IF	-	-			CHUUC1.MYERZ
MYERZ	371154.18N/0903950.95W	Y	FB	TF	184.95	53.58			

QUALITY 1 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC RNAV	ONE	CHUUC1.CHUUC	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD       ARG   K4011450VTHA N36063607W090571330    N36063607W090571330E0040002652     NARWALNUT RIDGE
        SUSAD       MAW   K3011120VTL  N36331841W089544112    N36331841W089544112E0030002801     NARMALDEN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT  ALLNT K30    W     N38450297W090310869                    W0009     NAR          ALLNT
        SUSAEAENRT  CHUUC K30    W     N38052086W090340358                    W0008     NAR          CHUUC
        SUSAEAENRT  DAFUS K30    W     N38380882W090173470                    W0010     NAR          DAFUS
        SUSAEAENRT  ELDBB K30    W     N38411621W090324996                    W0009     NAR          ELDBB
        SUSAEAENRT  GEJAY K30    W     N38324389W090231464                    W0010     NAR          GEJAY
        SUSAEAENRT  HAGEE K30    W     N38473574W090284090                    W0009     NAR          HAGEE
        SUSAEAENRT  HEFNR K30    W     N38420639W090162455                    W0011     NAR          HEFNR
        SUSAEAENRT  LUUBE K30    W     N38420840W090173503                    W0010     NAR          LUUBE
        SUSAEAENRT  MYERZ K30    C   H N37115418W090395095                    W0006     NAR          MYERZ
        SUSAEAENRT  PYUNG K30    W     N38471873W090270007                    W0009     NAR          PYUNG
        SUSAEAENRT  WAARN K30    W     N38453612W090322993                    W0009     NAR          WAARN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3ASTL     0     110YHN38445531W090221210E000000618          1800018000C    MNAR    LAMBERT-ST LOUIS INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3DCHUUC14RW11  010         0       VA                     1222        + 01120     18000
        SUSAP KSTLK3DCHUUC14RW11  020LUUBEK3EA0E    010DF                              + 02500
        SUSAP KSTLK3DCHUUC14RW11  030DAFUSK3EA0E    010TF                  17990040
        SUSAP KSTLK3DCHUUC14RW11  040GEJAYK3EA0E    010TF                  21940070
        SUSAP KSTLK3DCHUUC14RW11  050CHUUCK3EA0EE   010TF                  19730287
        SUSAP KSTLK3DCHUUC14RW12B 010         0       VA                     1222        + 01120     18000
        SUSAP KSTLK3DCHUUC14RW12B 020HEFNRK3EA0E    010DF                              + 02500
        SUSAP KSTLK3DCHUUC14RW12B 030DAFUSK3EA0E    010TF                  19300041
        SUSAP KSTLK3DCHUUC14RW12B 040GEJAYK3EA0E    010TF                  21940070
        SUSAP KSTLK3DCHUUC14RW12B 050CHUUCK3EA0EE   010TF                  19730287
        SUSAP KSTLK3DCHUUC14RW29  010         0       VA                     3022        + 01120     18000
        SUSAP KSTLK3DCHUUC14RW29  020HAGEEK3EA0E    010DF                              + 02500
        SUSAP KSTLK3DCHUUC14RW29  030WAARNK3EA0E    010TF                  23630036
        SUSAP KSTLK3DCHUUC14RW29  040ELDBBK3EA0E    010TF                  18350043
        SUSAP KSTLK3DCHUUC14RW29  050CHUUCK3EA0EE   010TF                  18160359
```

QUALITY 1 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC RNAV	ONE	CHUUC1.CHUUC	NONE		

```
SUSAP KSTLK3DCHUUC14RW30B 010         0       VA                    3022       + 01120     18000
SUSAP KSTLK3DCHUUC14RW30B 020PYUNGK3EA0E    010DF                               + 02500
SUSAP KSTLK3DCHUUC14RW30B 030ALLNTK3EA0E    010TF                 23510040
SUSAP KSTLK3DCHUUC14RW30B 040ELDBBK3EA0E    010TF                 19930040
SUSAP KSTLK3DCHUUC14RW30B 050CHUUCK3EA0EE   010TF                 18160359
SUSAP KSTLK3DCHUUC16ARG   010CHUUCK3EA0E      IF                                      18000
SUSAP KSTLK3DCHUUC16ARG   020MYERZK3EA0E     010TF                 18500536
SUSAP KSTLK3DCHUUC16ARG   030ARG  K4D 0VE    010TF                 19220667
SUSAP KSTLK3DCHUUC16MAW   010CHUUCK3EA0E      IF                                      18000
SUSAP KSTLK3DCHUUC16MAW   020MYERZK3EA0E     010TF                 18500536
SUSAP KSTLK3DCHUUC16MAW   030MAW  K3D 0VE    010TF                 13650529
SUSAP KSTLK3DCHUUC16MYERZ 010CHUUCK3EA0E      IF                                      18000
SUSAP KSTLK3DCHUUC16MYERZ 020MYERZK3EA0EE   010TF                 18500536
```

```
          1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------

SUSAP KSTLK3GRW11    0090011222 N38453583W090243555-0700    +0157000618000059150IIOGZ3
SUSAP KSTLK3GRW12L   0090031222 N38450641W090215866+0800    +0129700528000054150IILDZ3
SUSAP KSTLK3GRW12R   0110191222 N38451159W090223998+0400    +0133200540046754200IILMR1
SUSAP KSTLK3GRW29    0090013022 N38444846W090225939+0700    +0138100556000056150IIRQN1
SUSAP KSTLK3GRW30L   0110193022 N38441708W090204942-0400    +0146300583020158200IIBKY1    IRMKL
SUSAP KSTLK3GRW30R   0090033022 N38441899W090202251-0800    +0152900605000057150IISJW3
```

QUALITY 1 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC RNAV	ONE	CHUUC1.CHUUC	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW11		010		VA		FB		122.2()		AA 01120	
	RW11	LUUBE	020		DF		FB	1.0			AA 02500	
	RW11	DAFUS	030		TF		FB	1.0	179.9()	004.0		
	RW11	GEJAY	040		TF		FB	1.0	219.4()	007.0		
	RW11	CHUUC	050		TF		FB	1.0	197.3()	028.7		
	RW12B		010		VA		FB		122.2()		AA 01120	
	RW12B	HEFNR	020		DF		FB	1.0			AA 02500	
	RW12B	DAFUS	030		TF		FB	1.0	193.0()	004.1		
	RW12B	GEJAY	040		TF		FB	1.0	219.4()	007.0		
	RW12B	CHUUC	050		TF		FB	1.0	197.3()	028.7		
	RW29		010		VA		FB		302.2()		AA 01120	
	RW29	HAGEE	020		DF		FB	1.0			AA 02500	
	RW29	WAARN	030		TF		FB	1.0	236.3()	003.6		
	RW29	ELDBB	040		TF		FB	1.0	183.5()	004.3		
	RW29	CHUUC	050		TF		FB	1.0	181.6()	035.9		
	RW30B		010		VA		FB		302.2()		AA 01120	
	RW30B	PYUNG	020		DF		FB	1.0			AA 02500	
	RW30B	ALLNT	030		TF		FB	1.0	235.1()	004.0		
	RW30B	ELDBB	040		TF		FB	1.0	199.3()	004.0		
	RW30B	CHUUC	050		TF		FB	1.0	181.6()	035.9		
	ARG	CHUUC	010		IF		FB					
	ARG	MYERZ	020		TF		FB	1.0	185.0()	053.6		
	ARG	ARG	030		TF		FB	1.0	192.2()	066.7		
	MAW	CHUUC	010		IF		FB					
	MAW	MYERZ	020		TF		FB	1.0	185.0()	053.6		
	MAW	MAW	030		TF		FB	1.0	136.5()	052.9		
	MYERZ	CHUUC	010		IF		FB					
	MYERZ	MYERZ	020		TF		FB	1.0	185.0()	053.6		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ARG	N360636.07	W0905713.30	N3606.601	W09057.222
	MAW	N363318.41	W0895441.12	N3633.307	W08954.685
	ALLNT	N384502.97	W0903108.69	N3845.050	W09031.145
	CHUUC	N380520.86	W0903403.58	N3805.348	W09034.060
	DAFUS	N383808.82	W0901734.70	N3838.147	W09017.578
	ELDBB	N384116.21	W0903249.96	N3841.270	W09032.833
	GEJAY	N383243.89	W0902314.64	N3832.732	W09023.244
	HAGEE	N384735.74	W0902840.90	N3847.596	W09028.682
	HEFNR	N384206.39	W0901624.55	N3842.107	W09016.409
	LUUBE	N384208.40	W0901735.03	N3842.140	W09017.584
	MYERZ	N371154.18	W0903950.95	N3711.903	W09039.849

QUALITY 1 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC RNAV	ONE	CHUUC1.CHUUC	NONE		

PYUNG	N384718.73	W0902700.07	N3847.312	W09027.001
WAARN	N384536.12	W0903229.93	N3845.602	W09032.499
RW11	N384535.83	W0902435.55	N3845.597	W09024.593
RW12L	N384506.41	W0902158.66	N3845.107	W09021.978
RW12R	N384511.59	W0902239.98	N3845.193	W09022.666
RW29	N384448.46	W0902259.39	N3844.808	W09022.990
RW30L	N384417.08	W0902049.42	N3844.285	W09020.824
RW30R	N384418.99	W0902022.51	N3844.317	W09020.375

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW11	00618	59
RW12L	00528	54
RW12R	00540	54
RW29	00556	56
RW30L	00583	58
RW30R	00605	57

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ALLNT **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384502.97N/0903108.69W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CHUUC **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 380520.86N/0903403.58W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: DAFUS **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 383808.82N/0901734.70W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ELDBB **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384116.21N/0903249.96W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GEJAY **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 383243.89N/0902314.64W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY

RADIO FIX AND HOLDING DATA RECORD

NAME: HAGEE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384735.74N/0902840.90W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HEFNR **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384206.39N/0901624.55W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LUUBE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384208.40N/0901735.03W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MYERZ **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 371154.18N/0903950.95W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ST LOUIS	STL	VORTAC	H	184.00	185.00	100.00	100.00		14000	41000
2	MALDEN	MAW	VORTAC	L	313.99	316.99	52.90	52.90		14000	17500
3	WALNUT RIDGE	ARG	VORTAC	H	008.01	012.01	66.70	66.70		14000	41000
4	MAPLES	MAP	VORTAC	L	107.28	113.28		58.68		14000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
STL	VORTAC	R-184	100	14000	15000
MAW	VORTAC	R-314	53	14000	17500
ARG	VORTAC	R-008	67	14000	14900
MAP	VORTAC	R-107	59	14000	17500

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

REMARKS:
ST LOUIS (FAC 1) AND MAPLES (FAC 4) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC PAT	AIRPORT IDENT	CITY	STATE
DP	LINDBERGH	1, 2, 3, 4	KALN	ALTON/ST LOUIS	IL (US)
DP	LINDBERGH	1, 2, 3, 4	KBLV	BELLEVILLE	IL (US)
DP	LINDBERGH	1, 2, 3, 4	KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	CHUUC (RNAV)		KSTL	ST LOUIS	MO (US)
DP	LINDBERGH	1, 2, 3, 4	KSTL	ST LOUIS	MO (US)
DP	LINDBERGH	1, 2, 3, 4	KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED FIX TYPE WP.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/06/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: PYUNG **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384718.73N/0902700.07W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAARN **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384536.12N/0903229.93W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: MALDEN VORTAC **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 363318.41N/0895441.12W **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	MALDEN	MAW	VORTAC	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	MAW	VORTAC	118.00	298.00	R	1		2100	6000	4	5
2	S	MAW	VORTAC	170.52	350.52	R	1		2200	6000	4	5
3	W	MAW	VORTAC	271.00	091.00	R	1		2100	6000	4	5
4	N	MAW	VORTAC	355.36	175.36	L	1		2200	6000	4	5
5	SE	MAW	VORTAC	120.33	300.33	R	1		2200	6000	4	5
6	N	MAW	VORTAC	014.18	194.18	L	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (29-002081)	362955.00N/0895116.00W	696	5D
2	200	TOWER (29-002081)	362955.00N/0895116.00W	696	5D
3	200	TOWER (29-001683)	363511.00N/0900405.00W	1068	3D
4	200	TOWER (29-002081)	362955.00N/0895116.00W	696	5D
5	200	TOWER (29-002081)	362955.00N/0895116.00W	696	5D
5	310	STACK (29-000694)	363053.00N/0893342.00W	1093	5D
6	200	TOWER (29-002081)	362955.00N/0895116.00W	696	5D

REASON FOR NONSTANDARD HOLDING:
PAT 4 AND 6: AVOID MALDEN MUNI AIRPORT TRAFFIC AREA.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
5	VOR/DME RWY 14	KMAW	MALDEN	MO (US)

REMARKS:
PRECIPITIOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LINDBERGH			KALN	ALTON/ST LOUIS	IL (US)
DP	LINDBERGH			KBLV	BELLEVILLE	IL (US)
DP	LINDBERGH			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSUS	ST LOUIS	MO (US)
DP	MEMPHIS			KMEM	MEMPHIS	TN (US)
EN ROUTE	V9, V175, V305, V313					(US)
IAP	ILS OR LOC/DME RWY 18			KBYH	BLYTHEVILLE	AR (US)
IAP	VOR RWY 18			KBYH	BLYTHEVILLE	AR (US)
IAP	VOR RWY 36			KBYH	BLYTHEVILLE	AR (US)
IAP	RNAV (GPS) RWY 18			K4M9	CORNING	AR (US)
IAP	RNAV (GPS) RWY 22			KPGR	PARAGOULD	AR (US)
IAP	RNAV (GPS) RWY 4			KPGR	PARAGOULD	AR (US)
IAP	NDB OR GPS RWY 14			KCIR	CAIRO	IL (US)
IAP	VOR/DME RWY 18			KM05	CARUTHERSVILLE	MO (US)
IAP	NDB OR GPS RWY 36			KCHQ	CHARLESTON	MO (US)
IAP	VOR/DME RWY 36		2	KDXE	DEXTER	MO (US)
IAP	VOR OR GPS RWY 15		4	KM85	GIDEON	MO (US)
IAP	NDB RWY 2			KTKX	KENNETT	MO (US)
IAP	NDB RWY 20			KTKX	KENNETT	MO (US)
IAP	RNAV (GPS) RWY 20			KTKX	KENNETT	MO (US)
IAP	VOR/DME RWY 20		6	KTKX	KENNETT	MO (US)
IAP	RNAV (GPS) RWY 14			KMAW	MALDEN	MO (US)
IAP	RNAV (GPS) RWY 18			KMAW	MALDEN	MO (US)
IAP	RNAV (GPS) RWY 32			KMAW	MALDEN	MO (US)
IAP	VOR RWY 32		1	KMAW	MALDEN	MO (US)
IAP	VOR/DME RWY 14		5	KMAW	MALDEN	MO (US)
IAP	RNAV (GPS) RWY 18			KEIW	NEW MADRID	MO (US)
IAP	RNAV (GPS) RWY 36			KEIW	NEW MADRID	MO (US)
IAP	VOR/DME-A		3	KEIW	NEW MADRID	MO (US)
IAP	RNAV (GPS) RWY 36			KPOF	POPLAR BLUFF	MO (US)
IAP	SDF RWY 36			KPOF	POPLAR BLUFF	MO (US)

IAP	RNAV (GPS) RWY 2	KSIK	SIKESTON	MO (US)
IAP	RNAV (GPS) RWY 20	KSIK	SIKESTON	MO (US)
IAP	VOR/DME RWY 2	KSIK	SIKESTON	MO (US)
STAR	BEERT (RNAV)	KMEM	MEMPHIS	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19 **DATE OF REVISION:** 10/22/2009

REASON FOR REVISION:
ADDED C-I-H EVALUATION AND OBSTACLE FOR PAT 5.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/21/2009 **OFFICE:** AVN-120 **NAME:** STEVEN SZUKALA (BETTY RICHARDS)

APPROVED BY: **DATE:** 08/31/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZME
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: WALNUT RIDGE VORTAC **STATE:** AR **COUNTRY:** US

LATITUDE/LONGITUDE: 360636.07N/0905713.30W **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	WALNUT RIDGE	ARG	VORTAC	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	ARG	VORTAC	175.45	355.45	L	1		2000	6000	4	5
2	SW	ARG	VORTAC	232.90	052.90	R	1		2000	6000	4	5
3	SW	ARG	VORTAC	236.00	056.00	R	1		2000	6000	4	5
4	N	ARG	VORTAC	344.00	164.00	L		15	18000	45000	18	29
5	N		WP	347.00	167.00	L		15	18000	45000	28	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (05-001341)	360330.00N/0905636.00W	688	1A
2	200	TOWER (05-001341)	360330.00N/0905636.00W	688	1A
3	200	TOWER (05-001341)	360330.00N/0905636.00W	688	1A
5	230	TOWER (05-000598)	355322.00N/0905608.00W	2049	5E

REASON FOR NONSTANDARD HOLDING:
PAT 4 ATC REQUEST.
PAT 1 ATC REQUEST
PAT 5 ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
15 NM LEG LENGTHS ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LINDBERGH			KALN	ALTON/ST LOUIS	IL (US)
DP	LINDBERGH			KBLV	BELLEVILLE	IL (US)
DP	LINDBERGH			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSUS	ST LOUIS	MO (US)
DP	MEMPHIS			KMEM	MEMPHIS	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	J137					AR (US)
EN ROUTE	J46					AR (US)
EN ROUTE	Q25					AR (US)
EN ROUTE	Q26					AR (US)
EN ROUTE	V140					AR (US)
EN ROUTE	V159					AR (US)
EN ROUTE	V305					AR (US)
EN ROUTE	V69					AR (US)
IAP	RNAV (GPS) RWY 22			KCVK	ASH FLAT	AR (US)
IAP	RNAV (GPS) RWY 4			KCVK	ASH FLAT	AR (US)
IAP	LOC RWY 8			KBVX	BATESVILLE	AR (US)
IAP	RNAV (GPS) RWY 26			KBVX	BATESVILLE	AR (US)
IAP	RNAV (GPS) RWY 18			K4M9	CORNING	AR (US)
IAP	VOR/DME-A		2	K4M9	CORNING	AR (US)
IAP	ILS OR LOC RWY 23			KJBR	JONESBORO	AR (US)
IAP	RNAV (GPS) RWY 23			KJBR	JONESBORO	AR (US)
IAP	VOR RWY 23			KJBR	JONESBORO	AR (US)
IAP	RNAV (GPS) RWY 3			K42A	MELBOURNE	AR (US)
IAP	VOR/DME RWY 18			KM19	NEWPORT	AR (US)
IAP	NDB RWY 22			KPGR	PARAGOULD	AR (US)
IAP	RNAV (GPS) RWY 4			KPGR	PARAGOULD	AR (US)
IAP	VOR RWY 4			KPGR	PARAGOULD	AR (US)
IAP	VOR OR GPS RWY 36		1	KM70	POCAHONTAS	AR (US)
IAP	LOC RWY 18			KARG	WALNUT RIDGE	AR (US)
IAP	VOR-A		3	KARG	WALNUT RIDGE	AR (US)
IAP	VOR/DME RWY 22		3	KARG	WALNUT RIDGE	AR (US)
IAP	RNAV (GPS) RWY 36			KMAW	MALDEN	MO (US)
IAP	NDB OR GPS RWY 28			KMNF	MOUNTAIN VIEW	MO (US)
STAR	DAWGG		4	KMEM	MEMPHIS	TN (US)
STAR	FNCHR (RNAV)		5	KMEM	MEMPHIS	TN (US)

QUALITY CHECKED 3

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
CHANGED PAT 4 HOLDING RAD/CRS/BRG FROM 358.00 TO 344.00; CHANGED CRS INBOUND FROM 178.00 TO 164.00; CHANGED TURN FROM R TO L; DELETED LEG LENGTH TIME; ADDED 15 TO LEG LENGTH DME; CHANGED MIN/MAX HOLDING FROM 4000/39000 TO 18000/45000; CHANGED MIN/MAX TEMPLATE FROM 4/27 TO 18/29.
CHANGED PAT 5 HOLDING RAD/CRS/BRG FROM 001.00 TO 347.00; CHANGED CRS INBOUND FROM 181.00 TO 167.00; CHANGED TURN FROM R TO L; CHANGED MIN/MAX HOLDING FROM 4000/39000 TO 7000/45000; CHANGED MAX TEMPLATE FROM 28 TO 30.
ADDED NOTE TO REMARKS: 15 NM LEG LENGTHS ATC REQUEST.
ADDED EST FPO TO OTHER FOR DISTRIBUTION.
UPDATE FIX USE.

DEVELOPED BY:	**DATE:** 03/08/2012	**OFFICE:** AJV-352	**NAME:** SEAN BARBEE
APPROVED BY:	**DATE:**	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZME
ATC FACILITY: MEM APP CON
OTHER: EST FPO

Name:	enanders
Project Name:	
Output File:	KSTL SID RW30R MAW 20120511_1425
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 2:25:12 PM
Input File:	CHUUC RW30R MAW 20120405.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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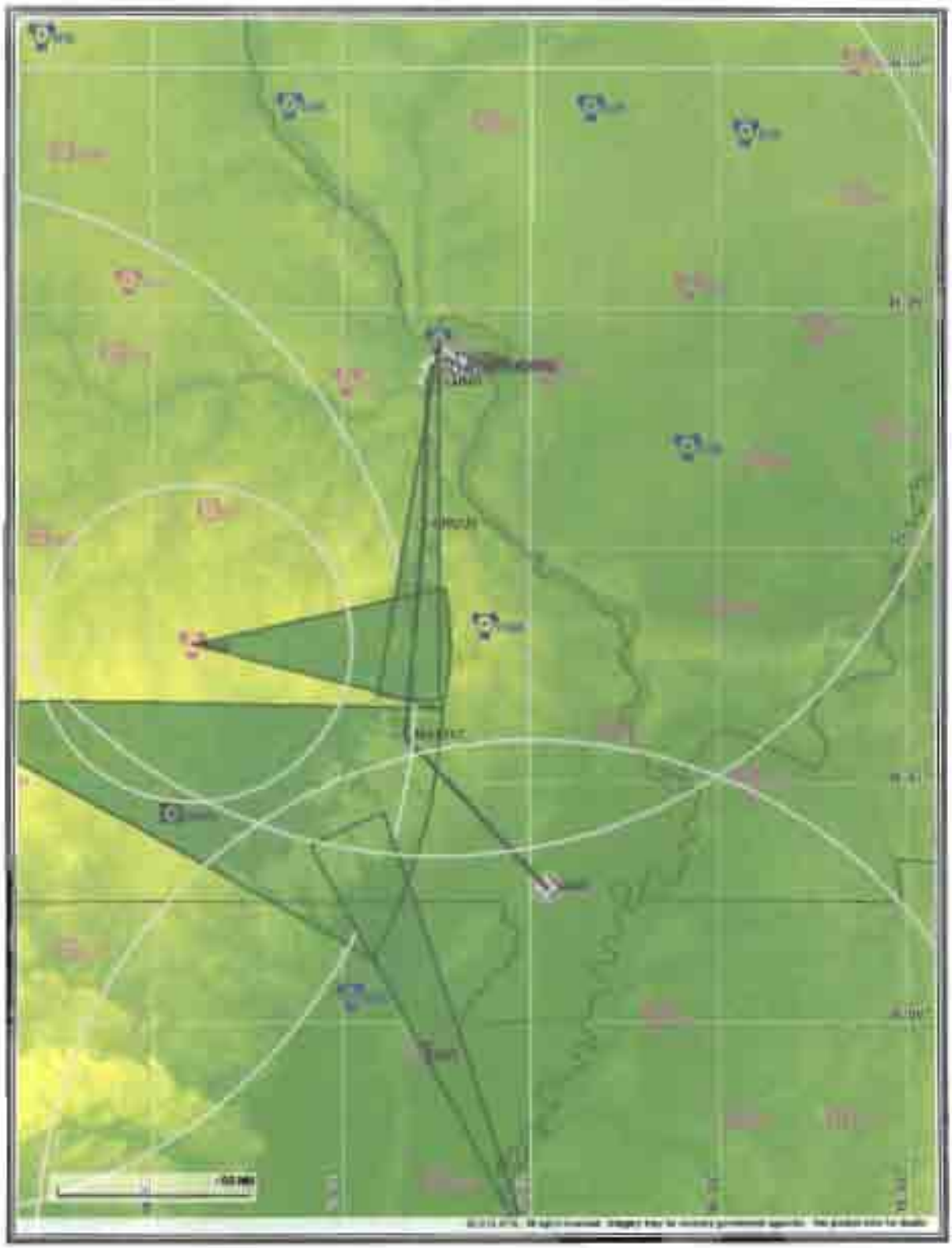


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30R(...	WP	N 38° 44' 18.99" W 90° 20' 22.51"	604.5	VNAV	0.0	Fly Over	TF
RW12L(...	WP	N 38° 45' 6.41" W 90° 21' 58.66"	563.3	VNAV	130.0	Fly Over	VA
GH30R	WP	N 38° 45' 44.28" W 90° 23' 15.46"	1120.0	VNAV	145.0	Fly Over	DF
PYUNG	WP	N 38° 47' 18.73" W 90° 27' 0.07"	2500.0	VNAV	180.0	Fly By	TF
ALLNT	WP	N 38° 45' 2.97" W 90° 31' 8.69"	3290.2	VNAV	180.0	Fly By	TF
ELD88	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4090.2	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	11269.8	VNAV	210.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Required IAS at Fly-By WP CHUUC could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -21.34 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

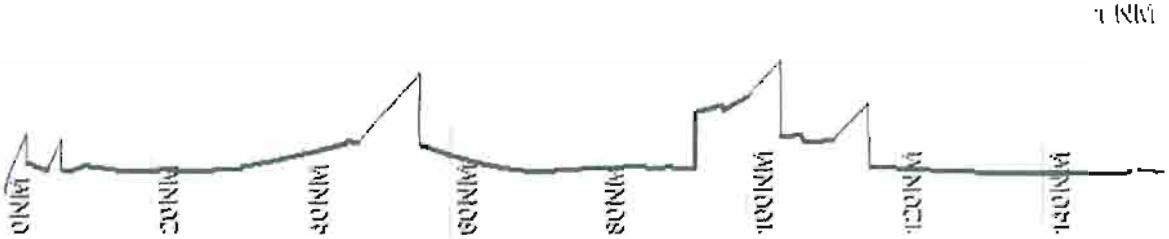
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2220 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.739 NM.

No Critical DMEs were found

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MAW, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 39.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.423	Enabled	36.6 %	34.8 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.839	Enabled	28.3 %	24.3 %
3	CSX	N 38° 45' 9.68" W 90° 21' 39.46" E 0	H	Database	NO	0.925	Enabled	20.2 %	21.0 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.739	Enabled	1.1 %	1.1 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.155	Enabled	16.3 %	18.1 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.80" E 6	L + ESV	User	NO	0.739	Enabled	0.9 %	11.0 %
7	ARG	N 38° 6' 36.97" W 90° 57' 13.30" E 4	H	Database	NO	1.115	Enabled	25.4 %	30.5 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.739	Enabled	2.1 %	2.3 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.101	Enabled	3.6 %	4.4 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12" E 3	L	Database	NO	0.999	Enabled	19.3 %	23.3 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.739	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.2	STL	FTZ	CSX			
5.6	STL	FTZ	CSX			
9.6	STL	FTZ	CSX			
13.4	STL	FTZ	CSX	TOY	FAM	
49.5	STL	FAM	MAP	ARG		
79.7	STL	CSX	MAP	ARG	ENL	FAM
91.6	STL	FAM	MAP	ARG	ENL	CSX
102.3	STL	FAM	SGF	ARG	CSX	
112.4	MEM	FAM	MAW	ARG		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 18.99" W 90° 20' 22.51"	N 38° 45' 54.85" W 90° 23' 42.20"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
2	N 38° 47' 12.16" W 90° 26' 47.13"	N 38° 46' 17.03" W 90° 28' 53.51"	1.9
	VOR: CSX	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
	VOR: FTZ	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
	VOR: STL	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
	VOR: TOY	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
3	N 38° 7' 23.01" W 90° 33' 59.45"	N 37° 59' 14.73" W 90° 34' 43.09"	8.2
	VOR: CSX	Available from N 38° 7' 23.01" W 90° 33' 59.45" to N 38° 6' 22.77" W 90° 34' 1.49"	
	VOR: FAM	Available from N 38° 7' 23.01" W 90° 33' 59.45" to N 37° 59' 14.73" W 90° 34' 43.09"	
	VOR: FTZ	Available from N 38° 7' 23.01" W 90° 33' 59.45" to N 38° 6' 29.59" W 90° 34' 1.26"	
4	N 37° 15' 17.50" W 90° 39' 29.19"	N 37° 10' 57.30" W 90° 38' 43.71"	4.6
	VOR: FAM	Available from N 37° 15' 17.50" W 90° 39' 29.19" to N 37° 10' 57.30" W 90° 38' 43.71"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 37° 5' 55.01" W 90° 32' 45.78"	N 37° 2' 23.62" W 90° 28' 36.75"	4.8
	VOR: FAM	Available from N 37° 5' 55.01" W 90° 32' 45.78" to N 37° 2' 23.62" W 90° 28' 36.75"	
	VOR: MAW	Available from N 37° 2' 29.94" W 90° 28' 44.18" to N 37° 2' 23.62" W 90° 28' 36.75"	

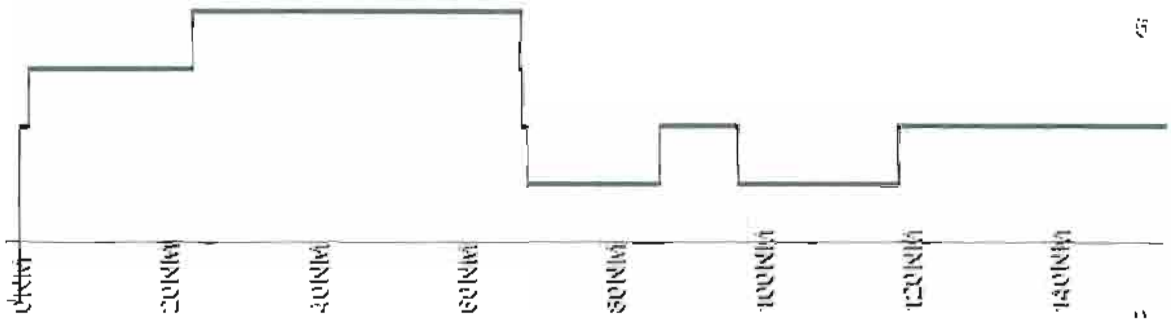
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: Radar Types: ARSR and ASR



Name:	enanders
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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 1:53:12 PM
Input File:	CHUUC RW30R ARG 20120405.lxl
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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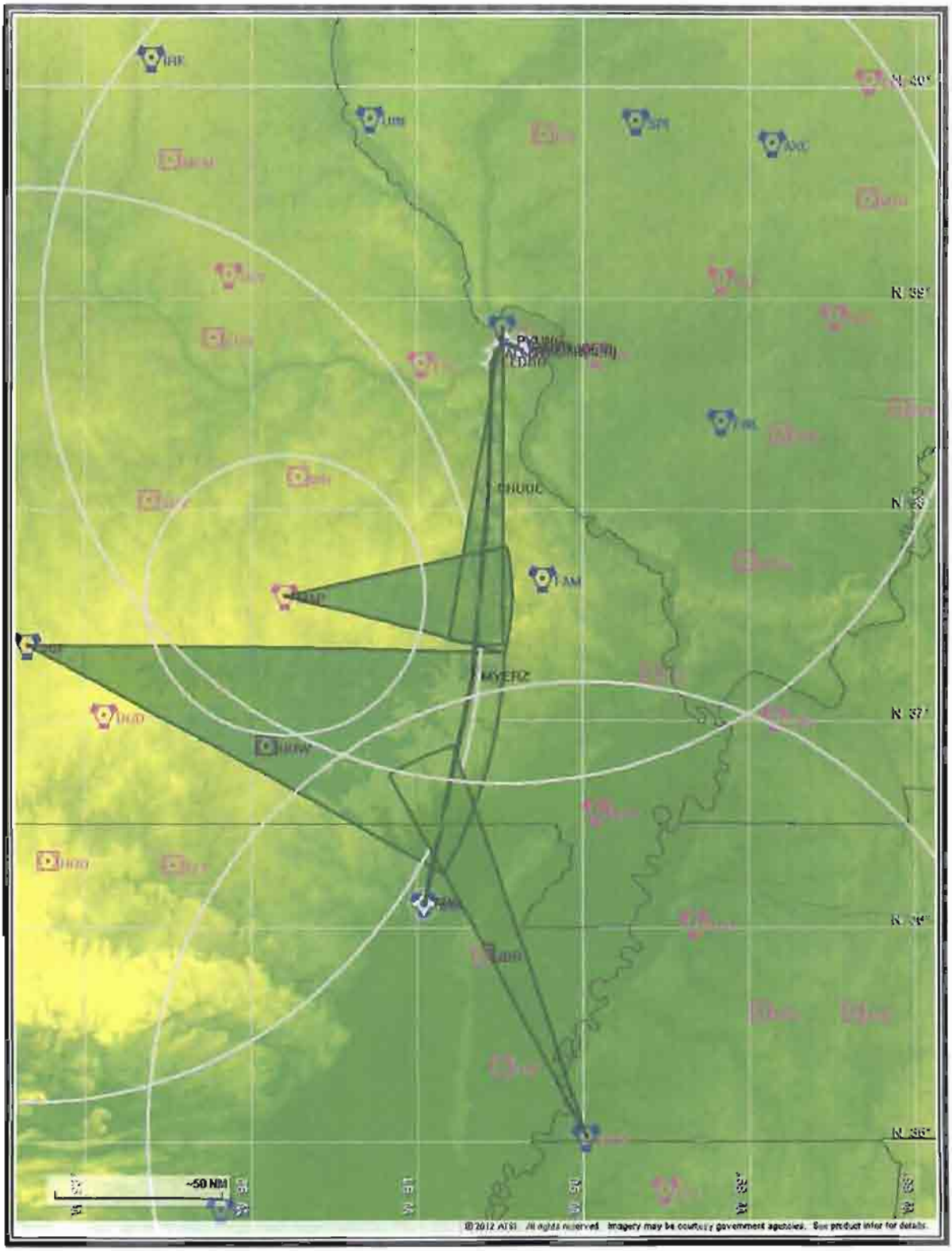
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30R(..	WP	N 38° 44' 18.99" W 90° 20' 22.51"	604.5	VNAV	0.0	Fly Over	TF
RW12L(..	WP	N 38° 45' 6.41" W 90° 21' 58.66"	563.3	VNAV	130.0	Fly Over	VA
GH30R	WP	N 38° 45' 44.28" W 90° 23' 15.46"	1120.0	VNAV	145.0	Fly Over	DF
PYUNG	WP	N 38° 47' 18.73" W 90° 27' 0.07"	2500.0	VNAV	180.0	Fly By	TF
ALLNT	WP	N 38° 45' 2.97" W 90° 31' 8.69"	3290.2	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4090.2	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	11269.8	VNAV	210.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
ARG	WP	N 36° 6' 36.07" W 90° 57' 13.30"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP ELDBE could not be reached with given A/C acceleration performance.

Required IAS at Fly-By WP CHUUC could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -21.34 Ft
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

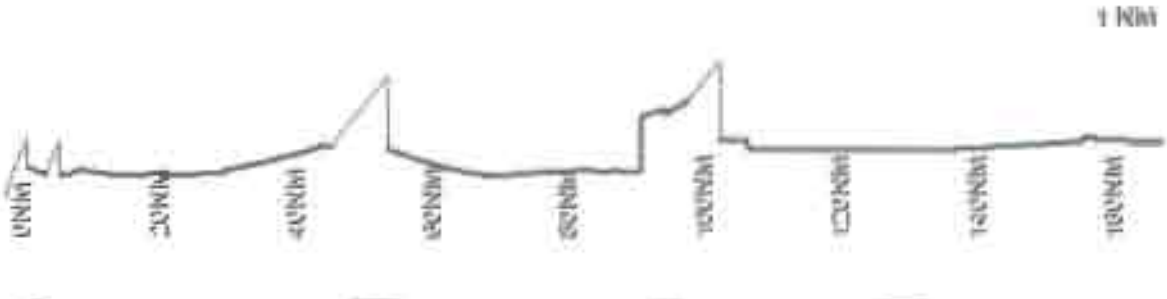
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2220 Ft

Total Number of DMEs Used: 10

Maximum DME Error: 0.739 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARC, ENL, SGF, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.423	Enabled	34.1 %	31.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.839	Enabled	26.4 %	22.4 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.925	Enabled	22.2 %	20.1 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.739	Enabled	1.1 %	1.0 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.155	Enabled	31.3 %	35.8 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.739	Enabled	9.2 %	10.1 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	0.739	Enabled	14.2 %	16.8 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.739	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.592	Enabled	26.4 %	31.4 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.798	Enabled	5.7 %	6.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.2	STL	FTZ	CSX			
5.6	STL	FTZ	CSX			
9.6	STL	FTZ	CSX			
13.4	STL	FTZ	CSX	TOY	FAM	
49.5	STL	FAM	MAP	ARG		
79.7	STL	CSX	MAP	ARG	ENL	FAM
91.3	STL	FAM	MAP	ARG	ENL	CSX
102.9	STL	FAM	SGF	ARG	CSX	
132.3	MEM	FAM	SGF	ARG		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 18.99" W 90° 20' 22.51"	N 38° 45' 54.85" W 90° 23' 42.20"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 54.85" W 90° 23' 42.20"	
2	N 38° 47' 12.16" W 90° 26' 47.13"	N 38° 46' 17.03" W 90° 28' 53.51"	1.9
	VOR: CSX	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
	VOR: FTZ	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
	VOR: STL	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
	VOR: TOY	Available from N 38° 47' 12.16" W 90° 26' 47.13" to N 38° 46' 17.03" W 90° 28' 53.51"	
3	N 38° 7' 23.01" W 90° 33' 59.45"	N 37° 59' 14.73" W 90° 34' 43.09"	8.2
	VOR: CSX	Available from N 38° 7' 23.01" W 90° 33' 59.45" to N 38° 6' 22.77" W 90° 34' 1.49"	
	VOR: FAM	Available from N 38° 7' 23.01" W 90° 33' 59.45" to N 37° 59' 14.73" W 90° 34' 43.09"	
	VOR: FTZ	Available from N 38° 7' 23.01" W 90° 33' 59.45" to N 38° 6' 29.59" W 90° 34' 1.26"	
4	N 37° 15' 17.50" W 90° 39' 29.19"	N 37° 10' 43.68" W 90° 40' 8.86"	4.6
	VOR: FAM	Available from N 37° 15' 17.50" W 90° 39' 29.19" to N 37° 10' 43.68" W 90° 40' 8.86"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 36° 7' 5.36" W 90° 57' 5.63"	N 36° 6' 39.89" W 90° 57' 12.30"	0.4
	VOR: ARG	Available from N 36° 7' 5.36" W 90° 57' 5.63" to N 36° 6' 39.89" W 90° 57' 12.30"	
	VOR: JBR	Available from N 36° 7' 5.36" W 90° 57' 5.63" to N 36° 6' 39.89" W 90° 57' 12.30"	

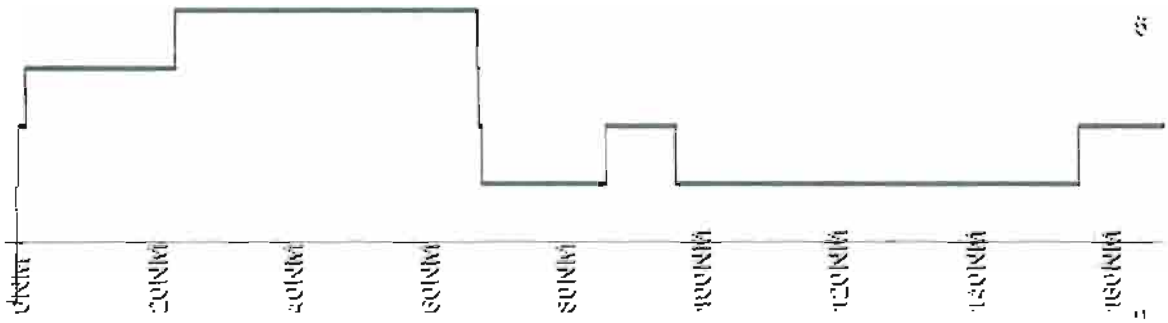
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 18000.0 Ft.		

Radar Analysis

Return To Summary

Settings: Radar Types: ARSR and ASR



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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 2:41:06 PM
Input File:	CHUUC RW30L MAW 20120405.bd
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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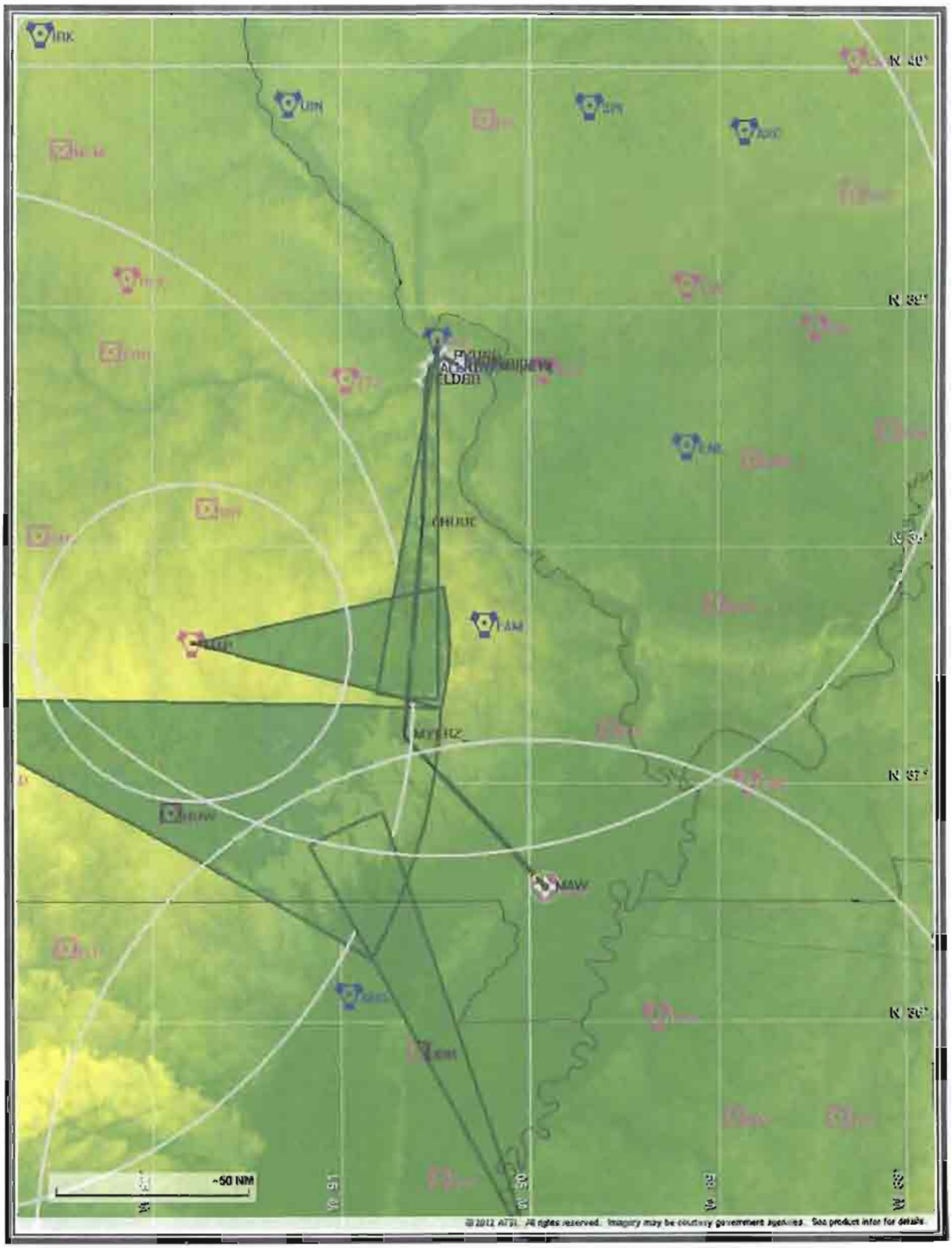

~50 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30L(...	WP	N 38° 44' 17.08" W 90° 20' 49.42"	585.8	VNAV	0.0	Fly Over	TF
RW12R(...	WP	N 38° 45' 14.05" W 90° 22' 44.97"	576.6	VNAV	130 0	Fly Over	VA
GH30L	WP	N 38° 45' 51.06" W 90° 24' 0.06"	1120.0	VNAV	145.0	Fly Over	DF
PYUNG	WP	N 38° 47' 18.73" W 90° 27' 0.07"	2500.0	VNAV	180.0	Fly By	TF
ALLNT	WP	N 38° 45' 2.97" W 90° 31' 8.69"	3290.2	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16 21" W 90° 32' 49.96"	4090.2	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	11269.8	VNAV	210.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000 0	VNAV	240.0	Fly By	TF
MAW	WP	N 36° 33' 18 41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Required IAS at Fly-By WP CHUUC could not be reached with given A/C acceleration performance

Flight Track comes into contact with terrain. Minimum AGL along route was -31.50 Ft
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

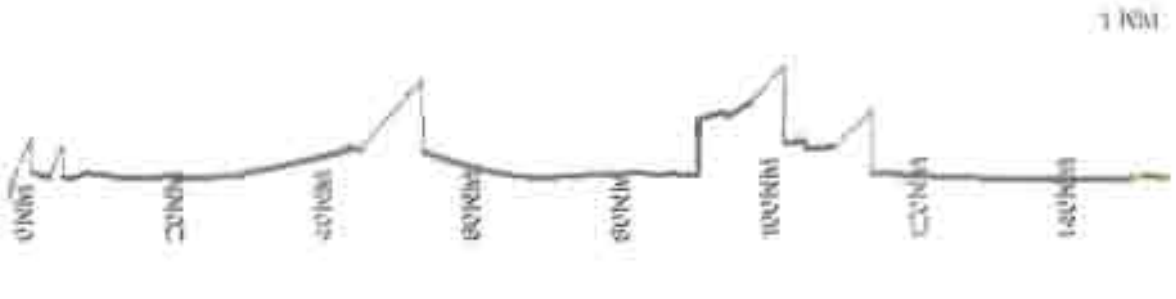
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2108 Ft

Total Number of DMEs Used: 11

Maximum DME Error: 0.739 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SQF, MAW, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.423	Enabled	36.4 %	34.6 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.839	Enabled	28.1 %	24.1 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.925	Enabled	23.2 %	21.0 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.739	Enabled	1.2 %	1.1 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.155	Enabled	16.3 %	18.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.739	Enabled	9.9 %	11.0 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	1.113	Enabled	25.4 %	30.5 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.739	Enabled	2.1 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.101	Enabled	3.6 %	4.4 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12" E 3	L	Database	NO	0.999	Enabled	19.3 %	23.3 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.739	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate	
0.0							
1.8							
2.5	STL	FTZ	CSX				
5.3	STL	FTZ	CSX				
9.3	STL	FTZ	CSX				
13.1	STL	FTZ	CSX	TOY		FAM	
49.2	STL	FAM	MAP	ARG			
79.4	STL	CSX	MAP	ARG		ENL	FAM
90.7	STL	FAM	MAP	ARG		ENL	CSX
102.0	STL	FAM	SGF	ARG		CSX	
112.1	MEM	FAM	MAW	ARG			

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 17.08" W 90° 20' 49.42"	N 38° 46' 1.04" W 90° 24' 20.82"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
2	N 38° 47' 11.65" W 90° 26' 49.31"	N 38° 46' 17.08" W 90° 28' 53.46"	1.9
	VOR: CSX	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
	VOR: FTZ	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
	VOR: STL	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
	VOR: TOY	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
3	N 38° 7' 23.61" W 90° 33' 59.43"	N 37° 59' 15.43" W 90° 34' 43.01"	8.2
	VOR: CSX	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 19.94" W 90° 34' 1.59"	
	VOR: FAM	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 37° 59' 15.43" W 90° 34' 43.01"	
	VOR: FTZ	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 30.19" W 90° 34' 1.24"	
4	N 37° 15' 18.21" W 90° 39' 29.11"	N 37° 10' 57.86" W 90° 38' 44.37"	4.6
	VOR: FAM	Available from N 37° 15' 18.21" W 90° 39' 29.11" to N 37° 10' 57.86" W 90° 38' 44.37"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 37° 5' 55.57" W 90° 32' 46.44"	N 37° 2' 24.18" W 90° 28' 37.40"	4 8
	VOR: FAM	Available from N 37° 5' 55.57" W 90° 32' 46.44" to N 37° 2' 24.18" W 90° 28' 37.40"	
	VOR. MAW	Available from N 37° 2' 30.49" W 90° 28' 44.83" to N 37° 2' 24.18" W 90° 28' 37.40"	

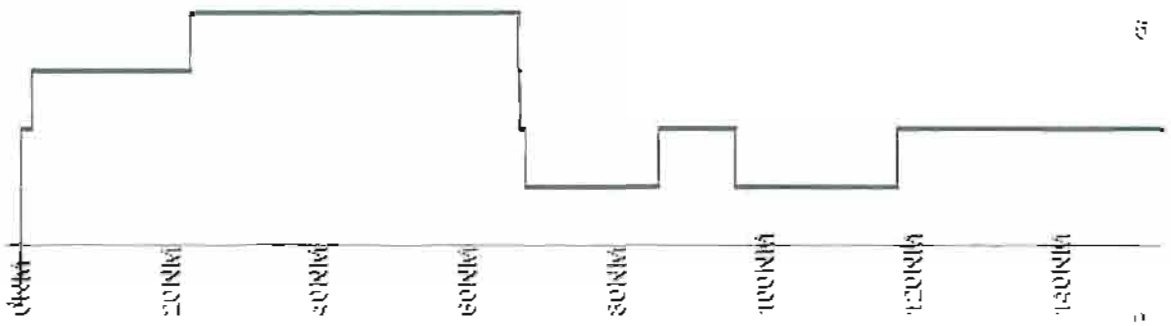
User DMEs

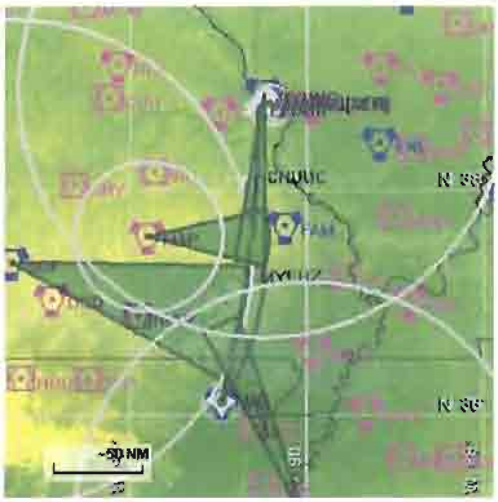
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21 41" W 93° 20' 2 54" E 4	H	1240 0	116 90	SGF	Used
		ESV. Bearing [True]: 90 0° to 118 0° Bearing [Mag]: 86.0° to 114 0°			Arc Distance: Out to 137.0 NM Altitude. 18000 0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54 42" W 89° 58' 59.55" E 1	H	360.0	117 50	MEM	Used
		ESV Bearing [True]: 331.0° to 341 0° Bearing [Mag]: 330 0° to 340.0°			Arc Distance Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]. 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft.		
4	STL	N 38° 51' 38 48" W 90° 28' 56.52" E 1	H	449 5	117 40	STL	Used
		ESV Bearing [True] 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





Name:	enanders
Project Name:	
Output File:	KSTL SID RW30L ARG 20120511_1409
Software:	RNAV-Pro™
Version:	2 36
Date/Time:	5/11/2012 2:09:24 PM
Input File:	CHUUC RW30L ARG 20120405.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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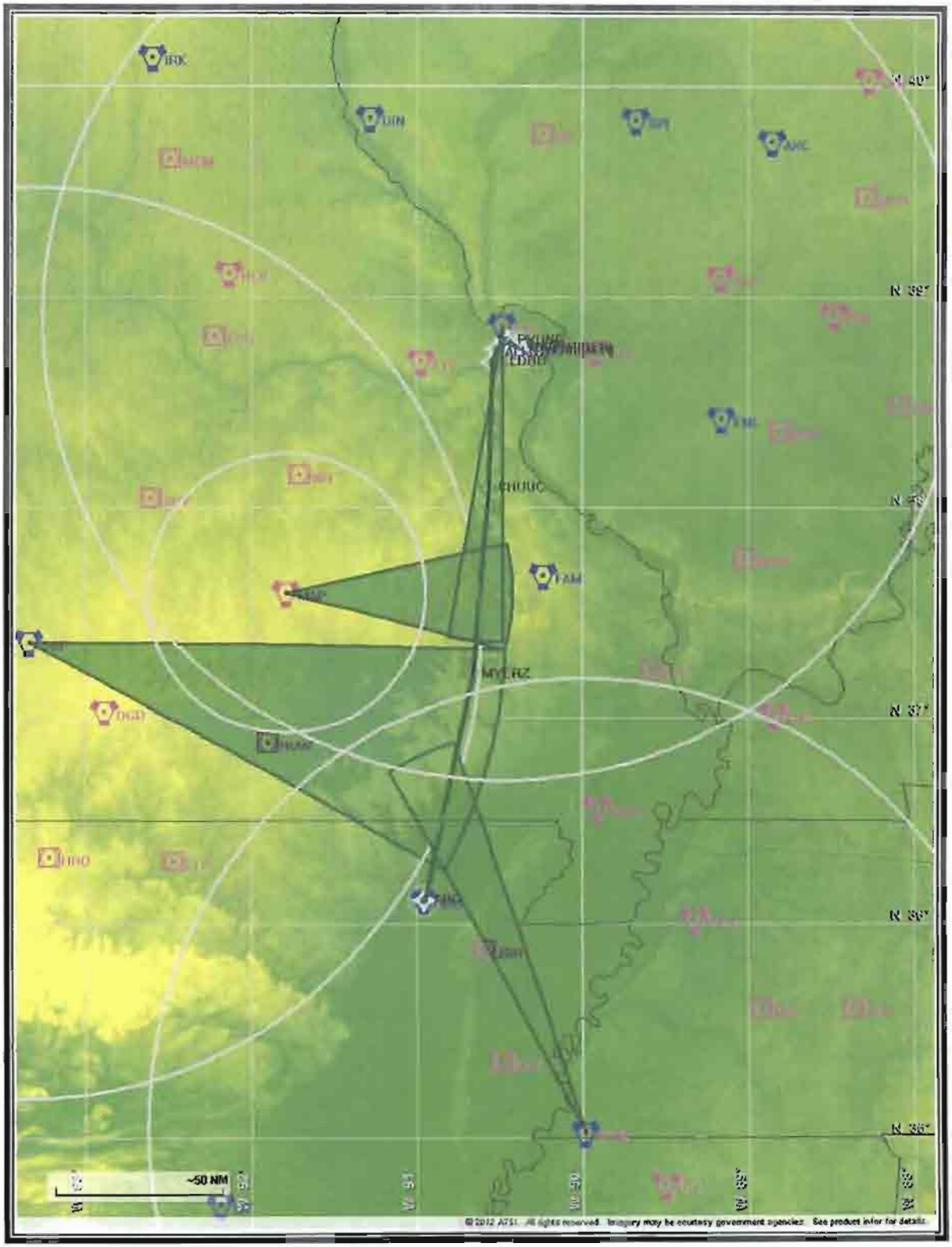
IRK
UIN
CHUUC
FAM
MYERZ
N 39°
N 38°
N 37°
N 36°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30L(...	WP	N 38° 44' 17.08" W 90° 20' 49.42"	585.8	VNAV	0.0	Fly Over	TF
RW12R(...	WP	N 38° 45' 14.05" W 90° 22' 44.97"	576.6	VNAV	130.0	Fly Over	VA
GH30L	WP	N 38° 45' 51.06" W 90° 24' 0.06"	1120.0	VNAV	145.0	Fly Over	DF
PYUNG	WP	N 38° 47' 18.73" W 90° 27' 0.07"	2500.0	VNAV	180.0	Fly By	TF
ALLNT	WP	N 38° 45' 2.97" W 90° 31' 8.69"	3290.2	VNAV	180.0	Fly By	TF
ELD8B	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4090.2	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	11269.8	VNAV	210.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
ARG	WP	N 36° 6' 36.07" W 90° 57' 13.30"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Required IAS at Fly-By WP CHUUC could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -31.50 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 2108 FI

Total Number of DMEs Used: 10

Maximum DME Error: 0.739 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MEM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 5' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.423	Enabled	33.9 %	31.7 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 0	L	Database	NO	0.839	Enabled	26.1 %	22.1 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.926	Enabled	22.2 %	20.0 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.739	Enabled	1.1 %	1.0 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.150	Enabled	31.3 %	35.9 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.738	Enabled	9.2 %	10.1 %
7	ARG	N 38° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	0.739	Enabled	14.2 %	16.8 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.36" E 4	H	Database	NO	0.739	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.592	Enabled	26.4 %	31.5 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.798	Enabled	5.7 %	6.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.5	STL	FTZ	CSX			
5.3	STL	FTZ	CSX			
9.3	STL	FTZ	CSX			
13.1	STL	FTZ	CSX	TOY	FAM	
49.2	STL	FAM	MAP	ARG		
79.4	STL	CSX	MAP	ARG	ENL	FAM
91.0	STL	FAM	MAP	ARG	ENL	CSX
102.6	STL	FAM	SGF	ARG	CSX	
131.9	MEM	FAM	SGF	ARG		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 17.08" W 90° 20' 49.42"	N 38° 46' 1.04" W 90° 24' 20.82"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.04" W 90° 24' 20.82"	
2	N 38° 47' 11.65" W 90° 26' 49.31"	N 38° 46' 17.08" W 90° 28' 53.46"	1.9
	VOR: CSX	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
	VOR: FTZ	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
	VOR: STL	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
	VOR: TOY	Available from N 38° 47' 11.65" W 90° 26' 49.31" to N 38° 46' 17.08" W 90° 28' 53.46"	
3	N 38° 7' 23.61" W 90° 33' 59.43"	N 37° 59' 15.43" W 90° 34' 43.01"	8.2
	VOR: CSX	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 19.94" W 90° 34' 1.59"	
	VOR: FAM	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 37° 59' 15.43" W 90° 34' 43.01"	
	VOR: FTZ	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 30.19" W 90° 34' 1.24"	
4	N 37° 15' 18.21" W 90° 39' 29.11"	N 37° 10' 44.43" W 90° 40' 8.65"	4.6
	VOR: FAM	Available from N 37° 15' 18.21" W 90° 39' 29.11" to N 37° 10' 44.43" W 90° 40' 8.65"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length (NM)
5	N 36° 7' 6.11" W 90° 57' 5.43"	N 36° 6' 36.39" W 90° 57' 13.22"	0.5
	VOR: ARG	Available from N 36° 7' 6.11" W 90° 57' 5.43" to N 36° 6' 36.39" W 90° 57' 13.22"	
	VOR: JBR	Available from N 36° 7' 6.11" W 90° 57' 5.43" to N 36° 6' 36.39" W 90° 57' 13.22"	

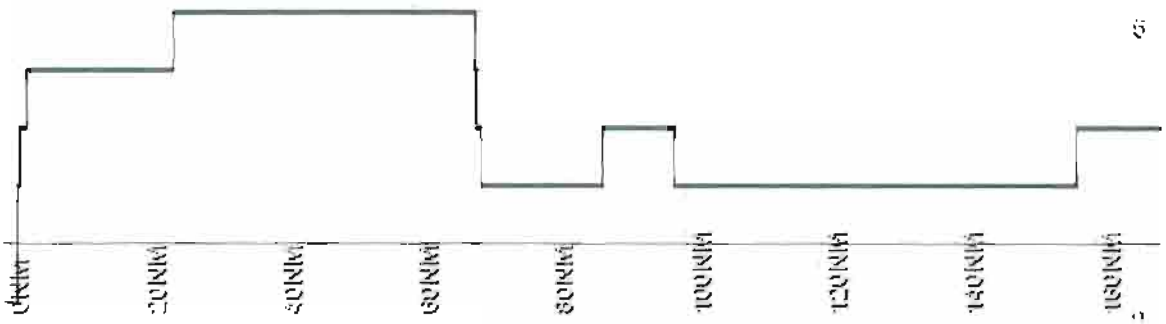
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft.		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: Radar Types: ARSR and ASR



Name:	enanders
Project Name:	
Output File:	KSTL SID RW29 MAW 20120511_1501
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 3:01:02 PM
Input File:	CHUJC RW29 MAW 20120405.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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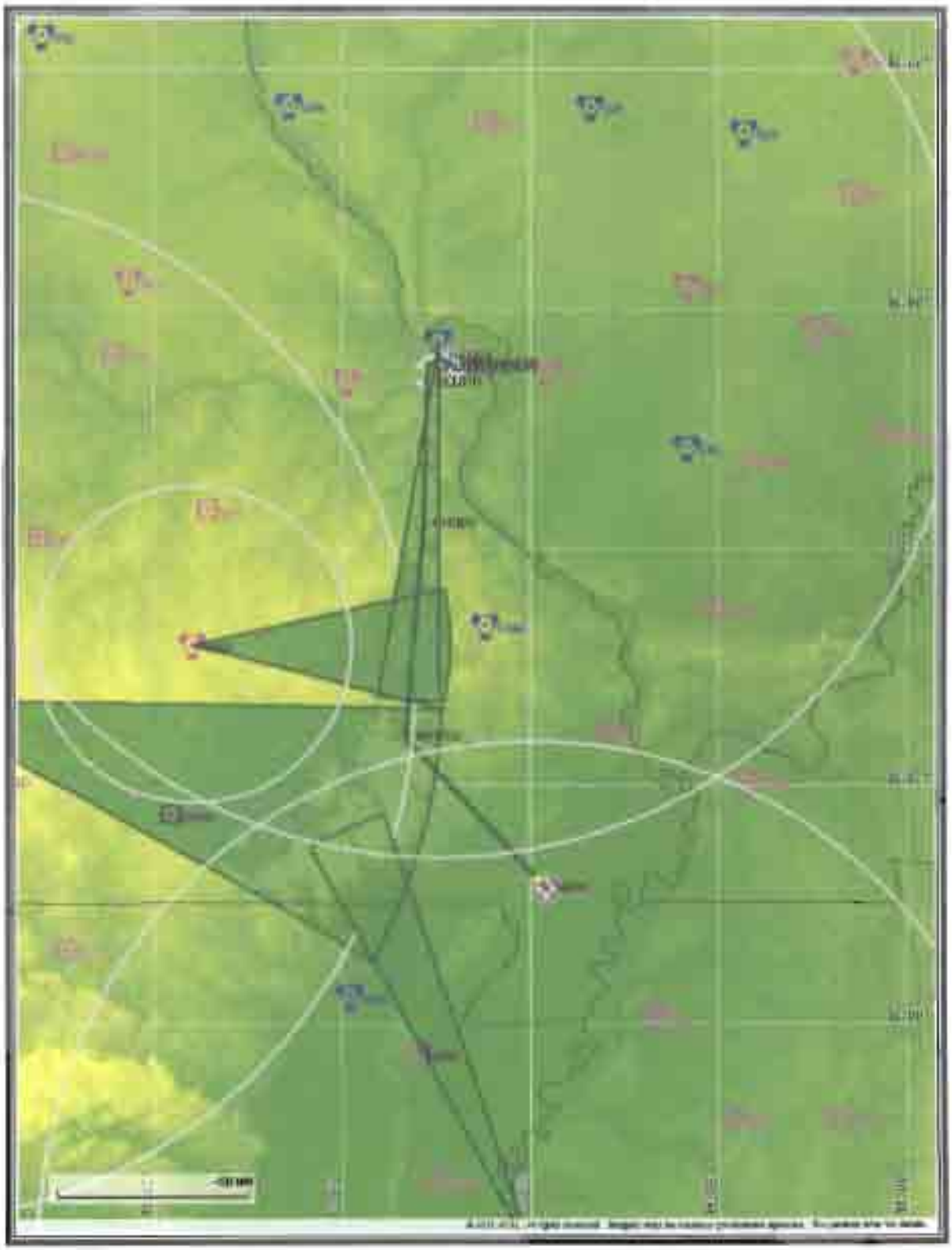


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW29(A.	WP	N 38° 44' 48.46" W 90° 22' 59.39"	556.0	VNAV	0.0	Fly Over	TF
RW11(D.	WP	N 38° 45' 35.83" W 90° 24' 35.55"	653.0	VNAV	130.0	Fly Over	VA
GH29:	WP	N 38° 46' 7.94" W 90° 25' 40.74"	1120.0	VNAV	145.0	Fly Over	DF
HAGEE	WP	N 38° 47' 35.74" W 90° 28' 40.90"	2500.0	VNAV	180.0	Fly By	TF
WAARN	WP	N 38° 45' 36.12" W 90° 32' 29.93"	3217.7	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4084.8	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	11264.4	VNAV	210.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Required IAS at Fly-By WP CHUUC could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -48.05 Ft
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

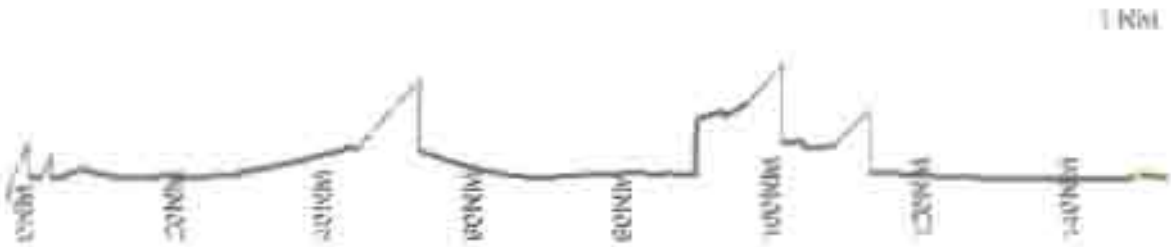
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2076 Ft

Total Number of DMEs Used: 11

Maximum DME Error: 0.739 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MAW, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. (NM)	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.423	Enabled	37.1 %	34.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.837	Enabled	27.4 %	23.7 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.927	Enabled	24.7 %	21.9 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.739	Enabled	1.2 %	1.1 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.155	Enabled	16.4 %	18.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.739	Enabled	9.9 %	11.1 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	1.115	Enabled	25.5 %	30.6 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.739	Enabled	2.1 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.102	Enabled	3.7 %	4.4 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12" E 3	L	Database	NO	0.999	Enabled	19.4 %	23.4 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.739	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.2	STL	FTZ	CSX			
4.9	STL	FTZ	CSX			
8.4	STL	FTZ	CSX			
13.0	STL	FTZ	CSX	TOY	FAM	
48.7	STL	FAM	MAP	ARG		
79.0	STL	CSX	MAP	ARG	ENL	FAM
90.2	STL	FAM	MAP	ARG	ENL	CSX
101.5	STL	FAM	SGF	ARG	CSX	
111.6	MEM	FAM	MAW	ARG		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length (NM)
1	N 38° 44' 48.46" W 90° 22' 59.39"	N 38° 46' 19.60" W 90° 26' 4.87"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
2	N 38° 47' 16.79" W 90° 28' 2.08"	N 38° 47' 7.83" W 90° 29' 34.98"	1.4
	VOR: CSX	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
	VOR: FTZ	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
	VOR: STL	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
	VOR: TOY	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
3	N 38° 7' 22.41" W 90° 33' 59.47"	N 37° 59' 14.33" W 90° 34' 43.13"	8.1
	VOR: CSX	Available from N 38° 7' 22.41" W 90° 33' 59.47" to N 38° 6' 22.19" W 90° 34' 1.51"	
	VOR: FAM	Available from N 38° 7' 22.41" W 90° 33' 59.47" to N 37° 59' 14.33" W 90° 34' 43.13"	
	VOR: FTZ	Available from N 38° 7' 22.41" W 90° 33' 59.47" to N 38° 6' 29.00" W 90° 34' 1.28"	
4	N 37° 15' 17.10" W 90° 39' 29.23"	N 37° 10' 56.99" W 90° 38' 43.33"	4.6
	VOR: FAM	Available from N 37° 15' 17.10" W 90° 39' 29.23" to N 37° 10' 56.99" W 90° 38' 43.33"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 37° 5' 54.69" W 90° 32' 45.41"	N 37° 2' 23.31" W 90° 28' 36.38"	4.8
	VOR FAM	Available from N 37° 5' 54.69" W 90° 32' 45.41" to N 37° 2' 23.31" W 90° 28' 36.38"	
	VOR MAW	Available from N 37° 2' 29.62" W 90° 28' 43.81" to N 37° 2' 23.31" W 90° 28' 36.38"	

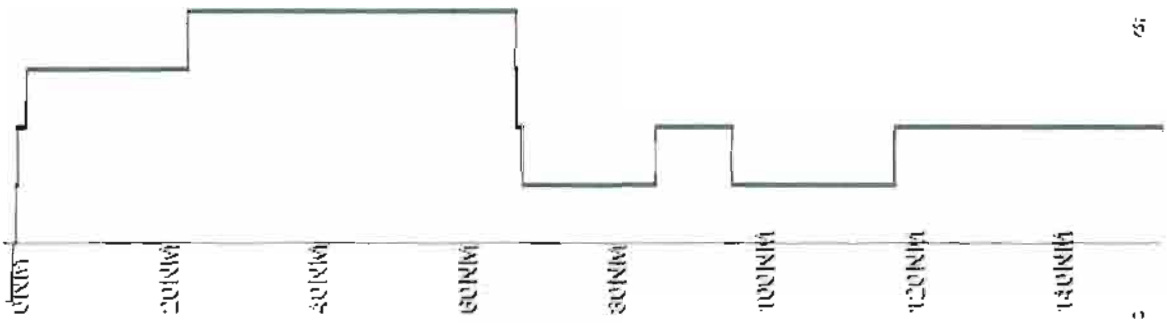
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°		Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.			
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°		Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.			
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°		Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft.			
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°		Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.			

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	eruanders
Project Name:	
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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 3:16:13 PM
Input File:	CHUUC RW29 ARG 20120405.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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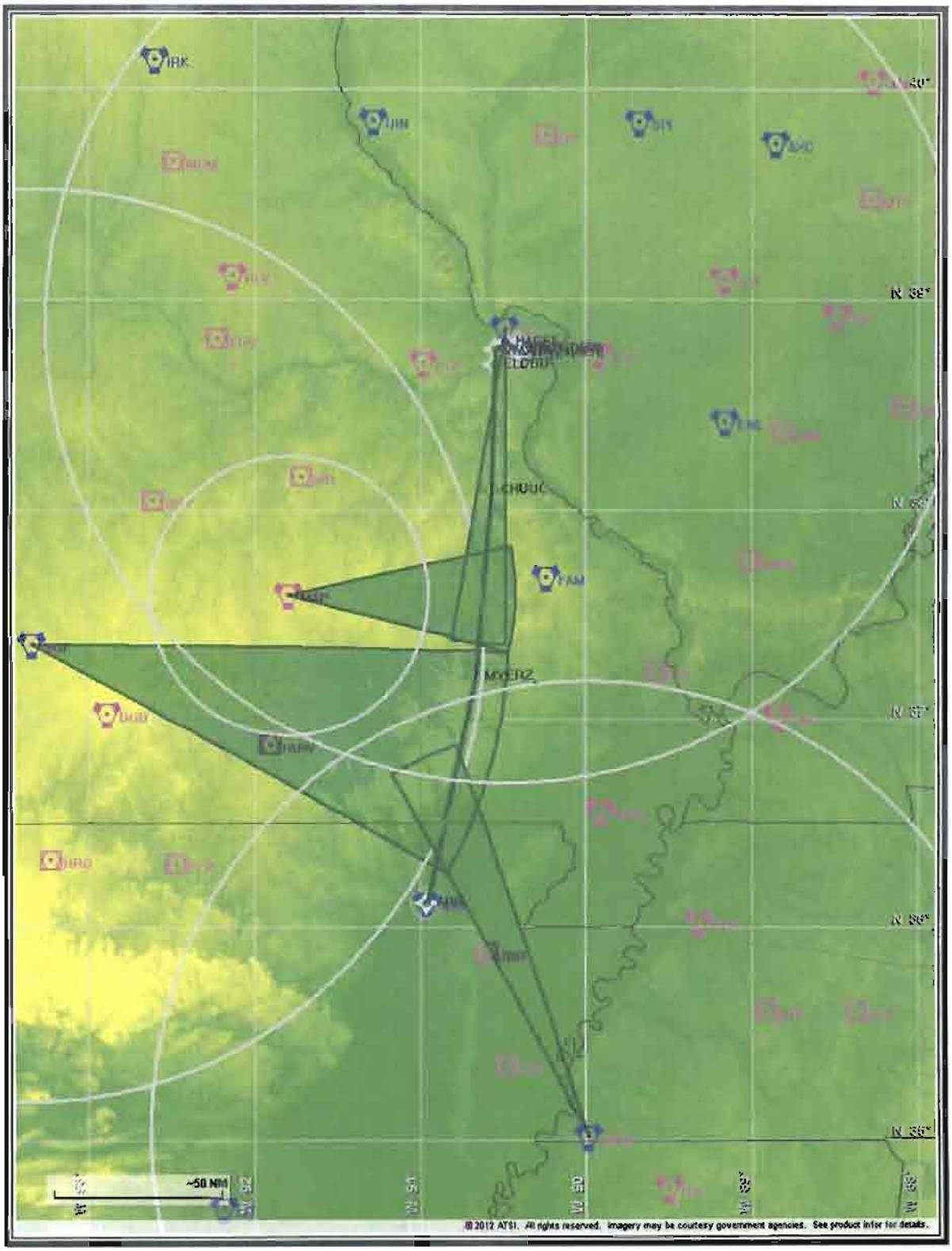
IRK
N 38°
N 37°
N 36°
N 35°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW29(A...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	556.0	VNAV	0.0	Fly Over	TF
RW11(D.	WP	N 38° 45' 35.83" W 90° 24' 35.55"	653.0	VNAV	130.0	Fly Over	VA
GH29:	WP	N 38° 46' 7.94" W 90° 25' 40.74"	1120.0	VNAV	145.0	Fly Over	DF
HAGEE	WP	N 38° 47' 35.74" W 90° 28' 40.90"	2500.0	VNAV	180.0	Fly By	TF
WAARN	WP	N 38° 45' 36.12" W 90° 32' 29.93"	3217.7	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4084.8	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	11264.4	VNAV	210.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
ARG	WP	N 36° 6' 36.07" W 90° 57' 13.30"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Required IAS at Fly-By WP CHUUC could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -48.05 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 2076 Ft

Total Number of DMEs Used: 10

Maximum DME Error: 0.737 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MEM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.423	Enabled	34.5 %	32.0 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.837	Enabled	25.5 %	21.7 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.927	Enabled	23.7 %	20.9 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.737	Enabled	1.1 %	1.0 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.155	Enabled	31.4 %	36.0 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.737	Enabled	9.3 %	10.2 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	0.737	Enabled	14.3 %	16.8 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.737	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.593	Enabled	26.5 %	31.6 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.798	Enabled	5.7 %	6.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.2	STL	FTZ	CSX			
4.9	STL	FTZ	CSX			
8.4	STL	FTZ	CSX			
13.0	STL	FTZ	CSX	TOY	FAM	
48.7	STL	FAM	MAP	ARG		
79.0	STL	CSX	MAP	ARG	ENL	FAM
90.6	STL	FAM	MAP	ARG	ENL	CSX
102.2	STL	FAM	SGF	ARG	CSX	
131.5	MEM	FAM	SGF	ARG		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 48.46" W 90° 22' 59.39"	N 38° 46' 19.60" W 90° 26' 4.87"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.60" W 90° 26' 4.87"	
2	N 38° 47' 16.79" W 90° 28' 2.08"	N 38° 47' 7.83" W 90° 29' 34.98"	1.4
	VOR: CSX	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
	VOR: FTZ	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
	VOR: STL	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
	VOR: TOY	Available from N 38° 47' 16.79" W 90° 28' 2.08" to N 38° 47' 7.83" W 90° 29' 34.98"	
3	N 38° 7' 22.41" W 90° 33' 59.47"	N 37° 59' 14.33" W 90° 34' 43.13"	8.1
	VOR: CSX	Available from N 38° 7' 22.41" W 90° 33' 59.47" to N 38° 6' 22.19" W 90° 34' 1.51"	
	VOR: FAM	Available from N 38° 7' 22.41" W 90° 33' 59.47" to N 37° 59' 14.33" W 90° 34' 43.13"	
	VOR: FTZ	Available from N 38° 7' 22.41" W 90° 33' 59.47" to N 38° 6' 29.00" W 90° 34' 1.28"	
4	N 37° 15' 17.10" W 90° 39' 29.23"	N 37° 10' 47.49" W 90° 40' 7.83"	4.5
	VOR: FAM	Available from N 37° 15' 17.10" W 90° 39' 29.23" to N 37° 10' 47.49" W 90° 40' 7.83"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 36° 7' 4 93" W 90° 57' 5 74"	N 36° 6' 39.46" W 90° 57' 12 42"	0 4
	VOR: ARG	Available from N 36° 7' 4 93" W 90° 57' 5 74" to N 36° 6' 39.46" W 90° 57' 12 42"	
	VOR. JBR	Available from N 36° 7' 4 93" W 90° 57' 5.74" to N 36° 6' 39 46" W 90° 57' 12.42"	

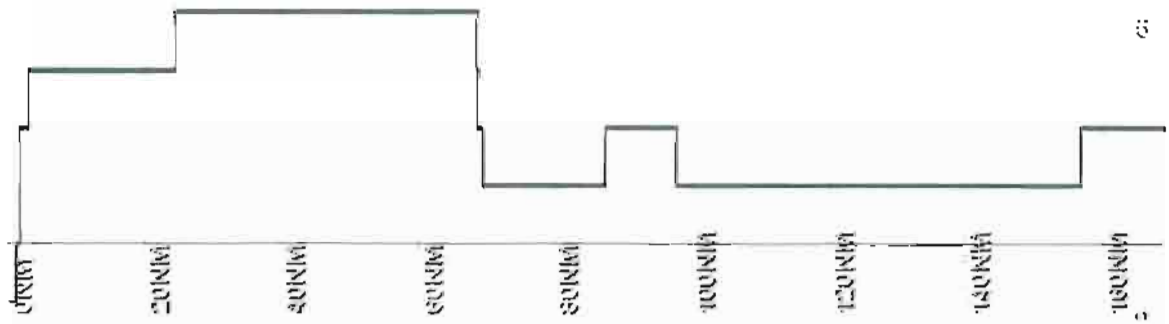
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21 41" W 93° 20' 2 54" E 4	H	1240 0	116.90	SGF	Used
		ESV: Bearing [True]: 90 0° to 118 0° Bearing [Mag]: 86 0° to 114 0°			Arc Distance: Out to 137.0 NM Altitude 18000 0 to 45000 0 Ft		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118 0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]: 77.0° to 104 0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000 0 Ft		
4	STL	N 38° 51' 38.48" W 90° 28' 56 52" E 1	H	449.5	117.40	STL	Used
		ESV Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189 0°			Arc Distance. Out to 90 0 NM Altitude 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 3:30:43 PM
Input File:	CHUUC RW12R MAW 20120405.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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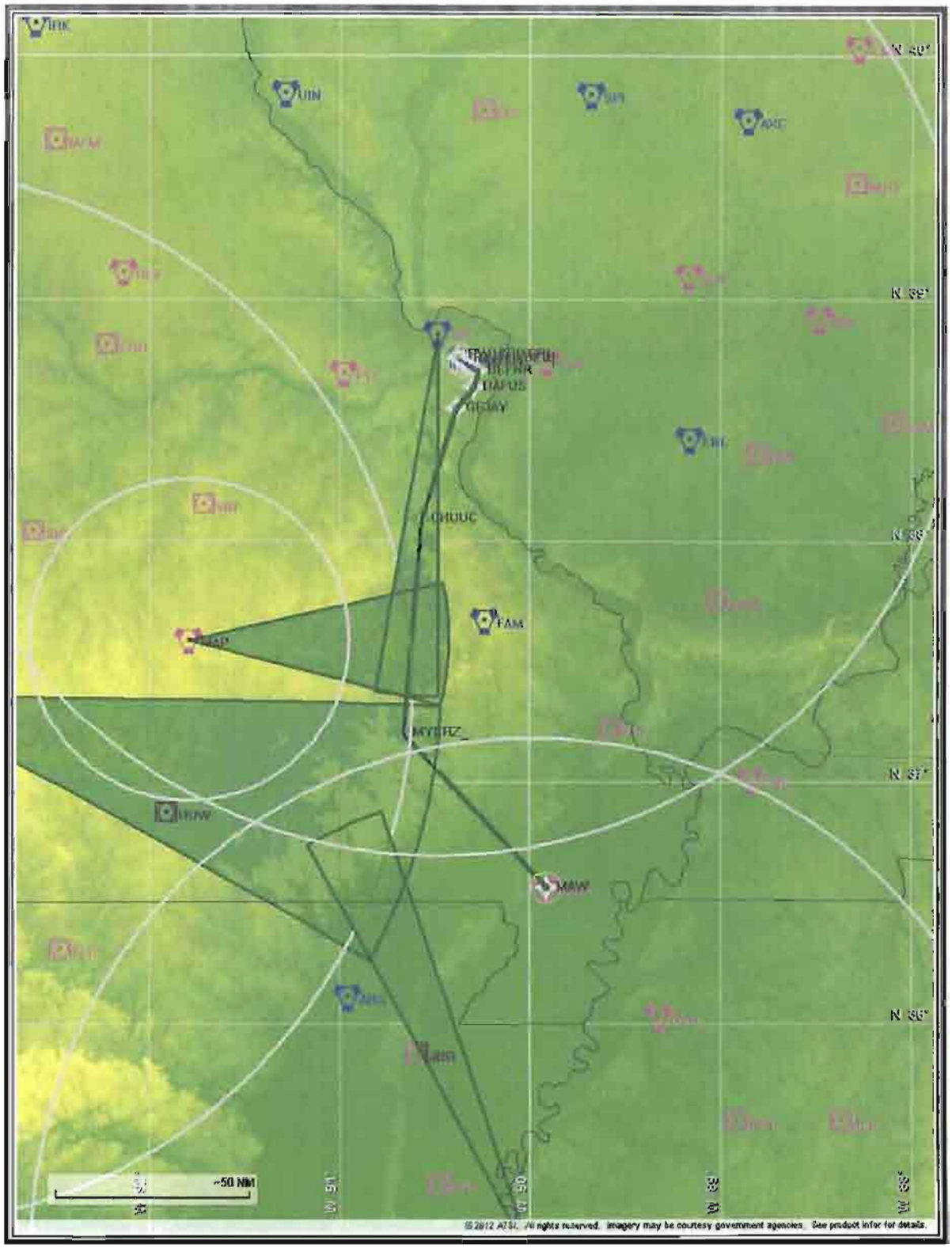
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12R(	WP	N 38° 45' 11.59" W 90° 22' 39.98"	541.6	VNAV	0.0	Fly Over	TF
RW30L(	WP	N 38° 44' 16.01" W 90° 20' 47.27"	620.8	VNAV	130.0	Fly Over	VA
GH12R	WP	N 38° 43' 41.83" W 90° 19' 37.95"	1120.0	VNAV	145.0	Fly Over	DF
HEFNR	WP	N 38° 42' 6.39" W 90° 16' 24.55"	2500.0	VNAV	180.0	Fly By	TF
DAFUS	WP	N 38° 38' 8.62" W 90° 17' 34.70"	3312.0	VNAV	180.0	Fly By	TF
GEJAY	WP	N 38° 32' 43.89" W 90° 23' 14.64"	4712.1	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10441.8	VNAV	180.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	16000.0	VNAV	240.0	Fly By	TF
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Flight Track comes into contact with terrain. Minimum AGL along route was -71.92 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

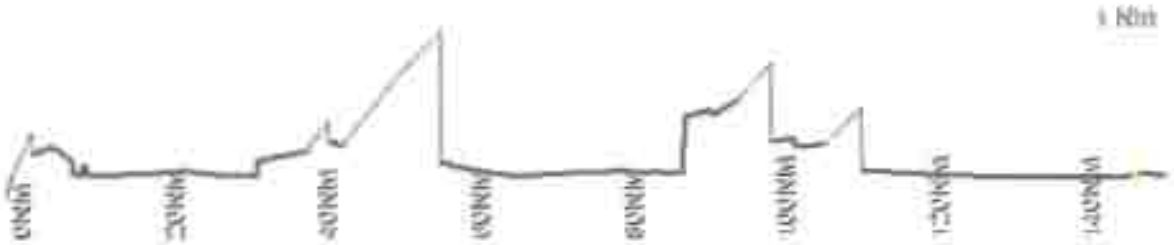
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2218 Ft

Total Number of DMEs Used: 11

Maximum DME Error: 0.868 NM

No Critical DMEs were found

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MAW, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.530	Enabled	27.5 %	26.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.868	Enabled	23.1 %	19.0 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	1.168	Enabled	19.2 %	16.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.868	Enabled	13.2 %	10.7 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.276	Enabled	13.7 %	15.3 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.868	Enabled	10.1 %	11.3 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	1.113	Enabled	26.0 %	31.4 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.868	Enabled	2.2 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.101	Enabled	3.7 %	4.5 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12" E 3	L	Database	NO	0.999	Enabled	19.7 %	23.9 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.868	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.4	STL	FTZ	CSX			
5.4	STL	FTZ	CSX	TOY		
9.5	STL	FTZ	CSX	TOY		
16.2	STL	FTZ	CSX	TOY	FAM	
45.0	STL	ARG	CSX	MAP	FAM	ENL
86.6	STL	ARG	ENL	MAP	FAM	CSX
97.9	STL	ARG	SGF	CSX	FAM	
108.0	MAW	ARG	FAM	MEM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 11.59" W 90° 22' 39.98"	N 38° 43' 27.44" W 90° 19' 8.82"	3.3
	VOR: CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
2	N 38° 11' 18.10" W 90° 31' 43.26"	N 38° 8' 26.00" W 90° 32' 50.92"	3.0
	VOR: CSX	Available from N 38° 11' 18.10" W 90° 31' 43.26" to N 38° 8' 26.00" W 90° 32' 50.92"	
	VOR: FAM	Available from N 38° 11' 18.10" W 90° 31' 43.26" to N 38° 8' 26.00" W 90° 32' 50.92"	
	VOR: FTZ	Available from N 38° 11' 18.10" W 90° 31' 43.26" to N 38° 8' 26.00" W 90° 32' 50.92"	
3	N 38° 6' 40.82" W 90° 33' 32.22"	N 37° 54' 3.91" W 90° 35' 17.99"	12.7
	VOR: CSX	Available from N 38° 6' 40.82" W 90° 33' 32.22" to N 38° 6' 18.51" W 90° 33' 40.97"	
	VOR: FAM	Available from N 38° 6' 40.82" W 90° 33' 32.22" to N 37° 54' 3.91" W 90° 35' 17.99"	
	VOR: FTZ	Available from N 38° 6' 40.82" W 90° 33' 32.22" to N 38° 6' 40.82" W 90° 33' 32.22"	
4	N 37° 15' 17.80" W 90° 39' 29.16"	N 37° 10' 54.55" W 90° 38' 40.41"	4.7
	VOR: FAM	Available from N 37° 15' 17.80" W 90° 39' 29.16" to N 37° 10' 54.55" W 90° 38' 40.41"	
5	N 37° 5' 55.38" W 90° 32' 46.24"	N 37° 2' 23.99" W 90° 28' 37.20"	4.8
	VOR: FAM	Available from N 37° 5' 55.38" W 90° 32' 46.24" to N 37° 2' 23.99" W 90° 28' 37.20"	
	VOR: MAW	Available from N 37° 2' 30.31" W 90° 28' 44.63" to N 37° 2' 23.99" W 90° 28' 37.20"	

DME/DME (Continued.)

Return To Summary

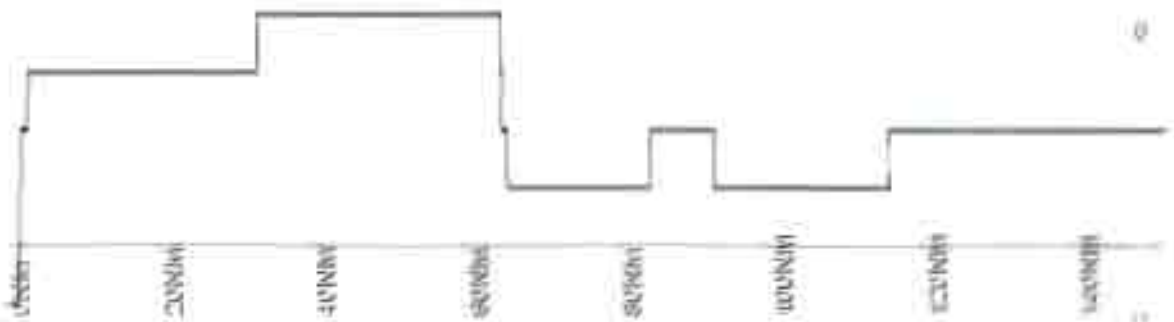
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation (Ft)	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21 41" W 93° 20' 2 54" E 4	H	1240 0	116 90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86 0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft		
2	MEM	N 35° 0' 54.42" W 89° 58' 59 55" E 1	H	360 0	117 50	MEM	Used
		ESV: Bearing [True] 331.0° to 341 0° Bearing [Mag]. 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000 0 to 35000 0 Ft		
3	MAP	N 37° 35' 26 76" W 91° 47' 18.85" E 6	L	1374 0	113.40	MAP	Used
		ESV Bearing [True] 77.0° to 104.0° Bearing [Mag]. 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft.		
4	STL	N 38° 51' 38 48" W 90° 28' 56 52" E 1	H	449.5	117 40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



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Project Name:	
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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/11/2012 3:45:23 PM
Input File:	CHUUC RW12R ARG 20120405.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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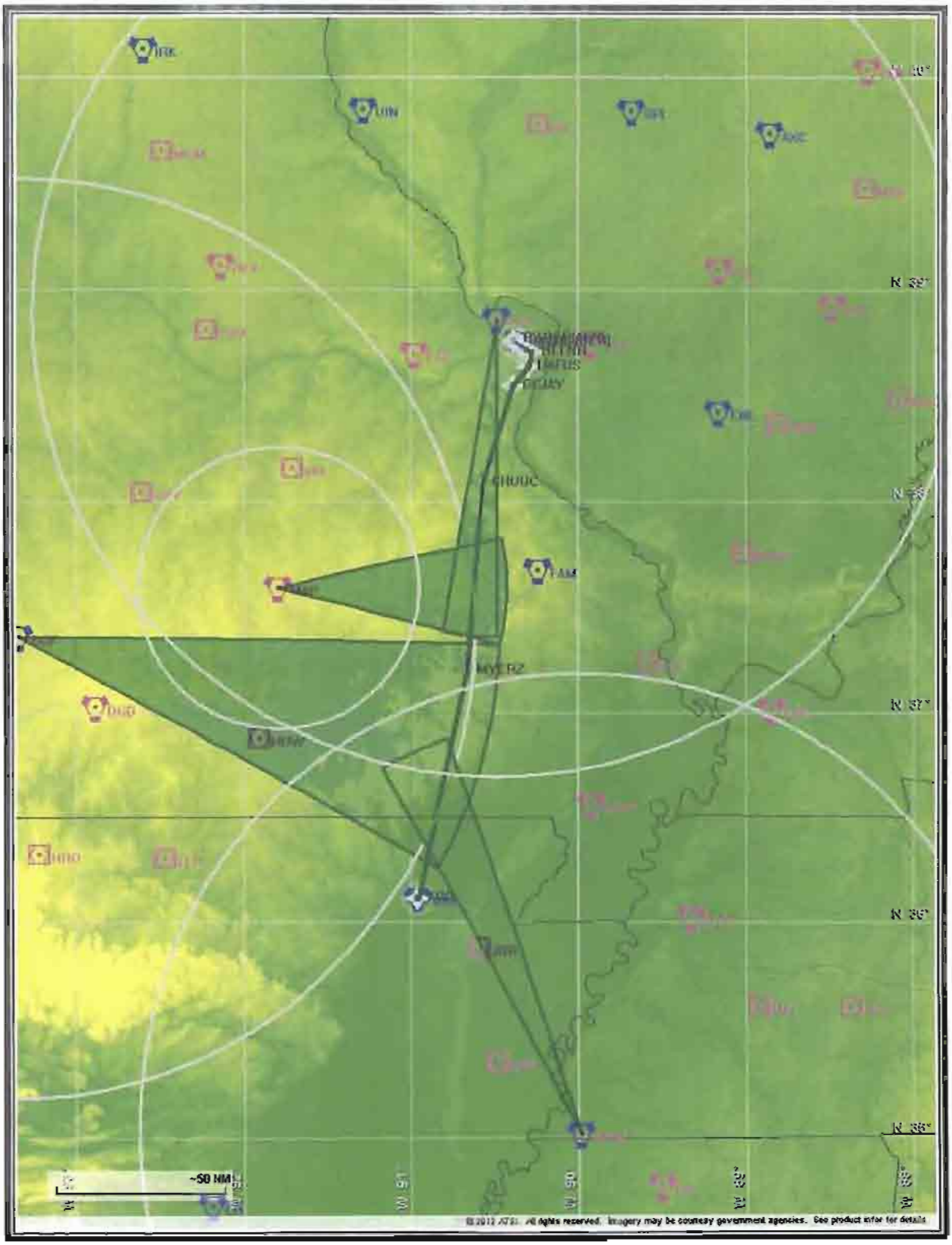

N 39°
N 38°
N 37°
N 36°
N 35°
~50 NM
W 91
W 90
W 89
W 88

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12R(...	WP	N 38° 45' 11.59" W 90° 22' 39.98"	541.6	VNAV	0.0	Fly Over	TF
RW30L(...	WP	N 38° 44' 16.01" W 90° 20' 47.27"	620.8	VNAV	130.0	Fly Over	VA
GH12R	WP	N 38° 43' 41.83" W 90° 19' 37.95"	1120.0	VNAV	145.0	Fly Over	DF
HEFNR	WP	N 38° 42' 6.39" W 90° 16' 24.55"	2500.0	VNAV	180.0	Fly By	TF
DAFUS	WP	N 38° 38' 8.82" W 90° 17' 34.70"	3312.0	VNAV	180.0	Fly By	TF
GEJAY	WP	N 38° 32' 43.89" W 90° 23' 14.64"	4712.1	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10441.8	VNAV	180.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
ARG	WP	N 36° 6' 36.07" W 90° 57' 13.30"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Flight Track comes into contact with terrain. Minimum AGL along route was -71.92 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 2218 Ft

Total Number of DMEs Used: 10

Maximum DME Error: 0.868 NM

No Critical DMEs were found

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MEM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.030	Enabled	25.6 %	24.6 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.868	Enabled	21.5 %	17.4 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	1.168	Enabled	18.5 %	16.2 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.868	Enabled	12.3 %	9.8 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.276	Enabled	29.2 %	33.7 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.868	Enabled	9.4 %	10.4 %
7	ARG	N 38° 6' 36.07" W 90° 57' 13.38" E 4	H	Database	NO	0.868	Enabled	14.5 %	17.2 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.868	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.592	Enabled	27.0 %	32.3 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.868	Enabled	5.8 %	6.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.4	STL	FTZ	CSX			
5.4	STL	FTZ	CSX	TOY		
9.5	STL	FTZ	CSX	TOY		
16.2	STL	FTZ	CSX	TOY	FAM	
45.0	STL	ARG	CSX	MAP	FAM	ENL
86.9	STL	ARG	ENL	MAP	FAM	CSX
98.6	STL	ARG	SGF	CSX	FAM	
127.9	MEM	ARG	SGF	FAM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 11.59" W 90° 22' 39.98"	N 38° 43' 27.44" W 90° 19' 8.82"	3.3
	VOR CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 27.44" W 90° 19' 8.82"	
2	N 38° 11' 18.10" W 90° 31' 43.26"	N 38° 8' 26.00" W 90° 32' 50.92"	3.0
	VOR: CSX	Available from N 38° 11' 18.10" W 90° 31' 43.26" to N 38° 8' 26.00" W 90° 32' 50.92"	
	VOR: FAM	Available from N 38° 11' 18.10" W 90° 31' 43.26" to N 38° 8' 26.00" W 90° 32' 50.92"	
	VOR: FTZ	Available from N 38° 11' 18.10" W 90° 31' 43.26" to N 38° 8' 26.00" W 90° 32' 50.92"	
3	N 38° 6' 40.82" W 90° 33' 32.22"	N 37° 54' 3.91" W 90° 35' 17.99"	12.7
	VOR: CSX	Available from N 38° 6' 40.82" W 90° 33' 32.22" to N 38° 6' 18.51" W 90° 33' 40.97"	
	VOR: FAM	Available from N 38° 6' 40.82" W 90° 33' 32.22" to N 37° 54' 3.91" W 90° 35' 17.99"	
	VOR: FTZ	Available from N 38° 6' 40.82" W 90° 33' 32.22" to N 38° 6' 40.82" W 90° 33' 32.22"	
4	N 37° 15' 17.80" W 90° 39' 29.16"	N 37° 10' 44.20" W 90° 40' 8.72"	4.6
	VOR: FAM	Available from N 37° 15' 17.80" W 90° 39' 29.16" to N 37° 10' 44.20" W 90° 40' 8.72"	
5	N 36° 7' 5.87" W 90° 57' 5.50"	N 36° 6' 36.16" W 90° 57' 13.28"	0.5
	VOR ARG	Available from N 36° 7' 5.87" W 90° 57' 5.50" to N 36° 6' 36.16" W 90° 57' 13.28"	
	VOR JBR	Available from N 36° 7' 5.87" W 90° 57' 5.50" to N 36° 6' 36.16" W 90° 57' 13.28"	

DME/DME (Continued.)

Return To Summary

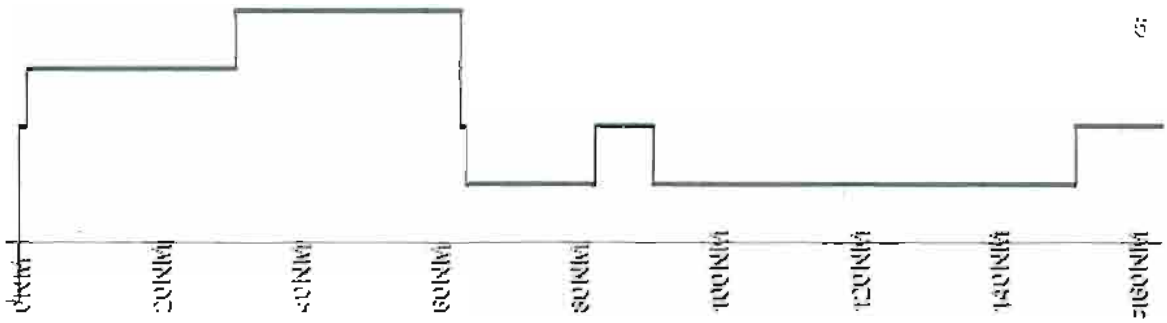
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2 54" E 4	H	1240 0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]. 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000 0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV. Bearing [True]: 331.0° to 341.0° Bearing [Mag] 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance. Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft.		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117 40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



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Project Name:	
Output File:	KSTL SID RW12L MAW 20120515_1705
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/15/2012 5:05:11 PM
Input File:	CHUUC RW12L MAW 20120405.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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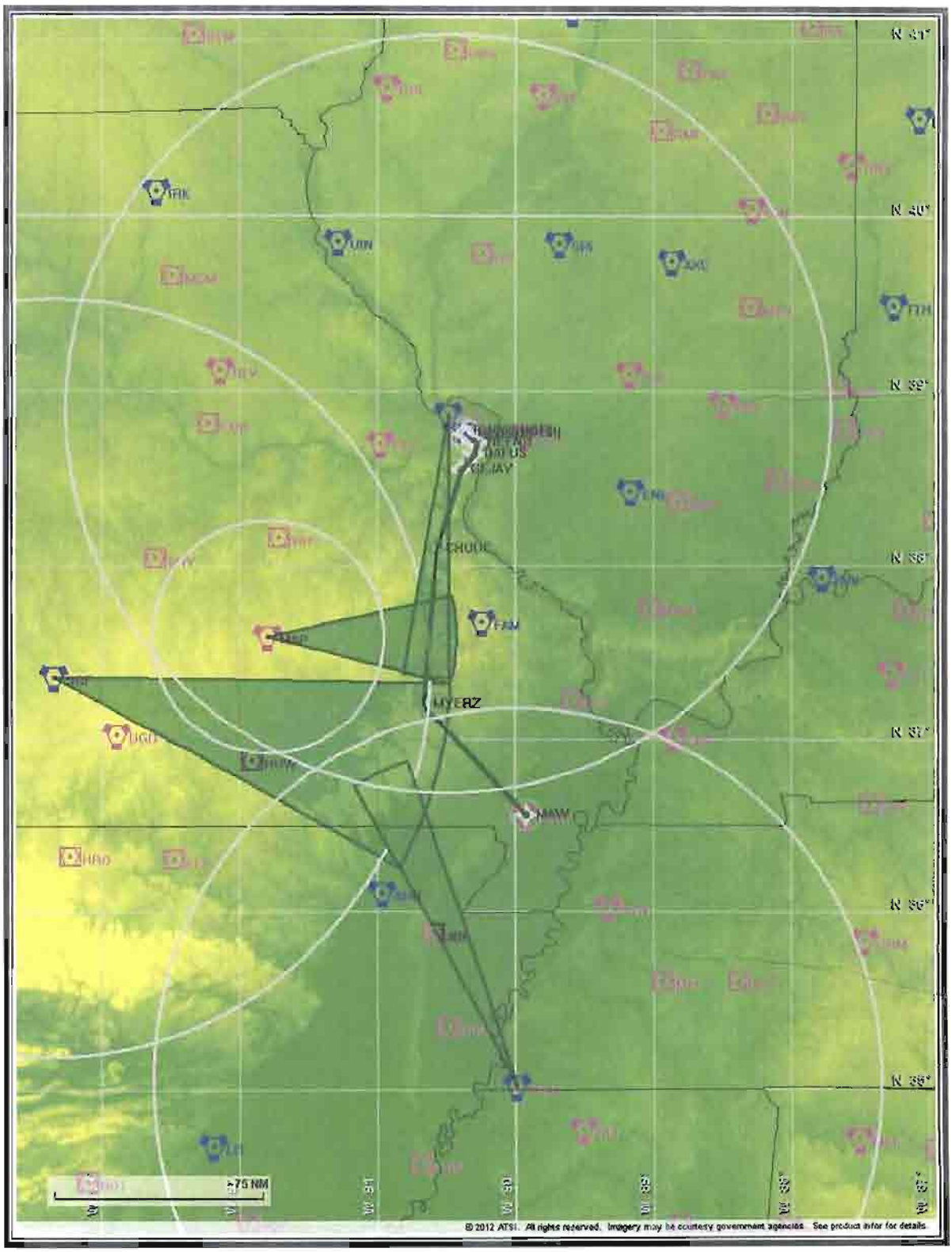
N 41°
N 40°
N 39°
N 38°
N 37°
N 36°
N 35°
W 91°
W 90°
W 89°
W 88°
W 87°
MYERZ
75 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12L(...	WP	N 38° 45' 6.41" W 90° 21' 58.66"	528.3	VNAV	0.0	Fly Over	TF
RW30R(...	WP	N 38° 44' 18.99" W 90° 20' 22.51"	639.5	VNAV	130.0	Fly Over	VA
GH12L	WP	N 38° 43' 45.99" W 90° 19' 15.61"	1120.0	VNAV	145.0	Fly Over	DF
HEFNR	WP	N 38° 42' 6.39" W 90° 16' 24.55"	2500.0	VNAV	180.0	Fly By	TF
DAFUS	WP	N 38° 38' 8.82" W 90° 17' 34.70"	3312.0	VNAV	180.0	Fly By	TF
GEJAY	WP	N 38° 32' 43.89" W 90° 23' 14.64"	4712.1	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10441.8	VNAV	180.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Flight Track comes into contact with terrain. Minimum AGL along route was -64.24 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

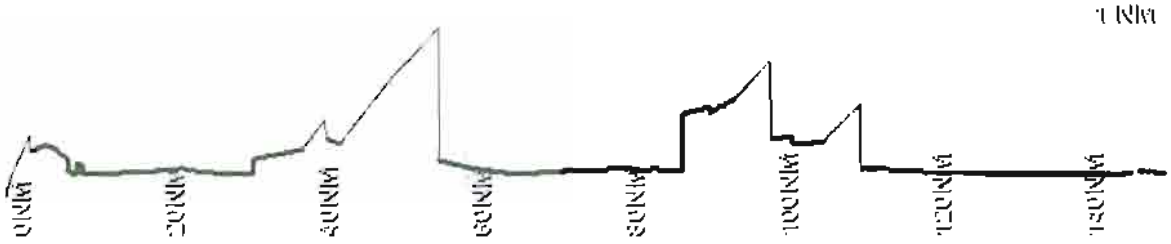
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2315 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.867 NM.

No Critical DMEs were found

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MAW, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.530	Enabled	27.5 %	26.8 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.867	Enabled	22.9 %	18.9 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	1.168	Enabled	19.2 %	16.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.867	Enabled	13.4 %	10.8 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.276	Enabled	13.8 %	15.4 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.867	Enabled	10.1 %	11.3 %
7	ARG	N 38° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	1.113	Enabled	26.1 %	31.4 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.867	Enabled	2.2 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.101	Enabled	3.7 %	4.5 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12" E 3	L	Database	NO	0.999	Enabled	19.8 %	24.0 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.867	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.2	STL	FTZ	CSX			
4.9	STL	FTZ	CSX	TOY		
9.1	STL	FTZ	CSX	TOY		
15.7	STL	FTZ	CSX	TOY	FAM	
44.5	STL	ARG	CSX	MAP	FAM	ENL
86.1	STL	ARG	ENL	MAP	FAM	CSX
97.4	STL	ARG	SGF	CSX	FAM	
107.5	MAW	ARG	FAM	MEM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 6.41" W 90° 21' 58.66"	N 38° 43' 26.20" W 90° 18' 42.61"	3.1
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42.61"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42.61"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42.61"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42.61"	
2	N 38° 11' 19.13" W 90° 31' 42.86"	N 38° 8' 27.03" W 90° 32' 50.51"	3.0
	VOR: CSX	Available from N 38° 11' 19.13" W 90° 31' 42.86" to N 38° 8' 27.03" W 90° 32' 50.51"	
	VOR: FAM	Available from N 38° 11' 19.13" W 90° 31' 42.86" to N 38° 8' 27.03" W 90° 32' 50.51"	
	VOR: FTZ	Available from N 38° 11' 19.13" W 90° 31' 42.86" to N 38° 8' 27.03" W 90° 32' 50.51"	
3	N 38° 6' 38.67" W 90° 33' 33.06"	N 37° 54' 1.21" W 90° 35' 18.28"	12.7
	VOR: CSX	Available from N 38° 6' 38.67" W 90° 33' 33.06" to N 38° 6' 16.36" W 90° 33' 41.82"	
	VOR: FAM	Available from N 38° 6' 38.67" W 90° 33' 33.06" to N 37° 54' 1.21" W 90° 35' 18.28"	
4	N 37° 15' 19.10" W 90° 39' 29.02"	N 37° 10' 55.56" W 90° 38' 41.63"	4.7
	VOR: FAM	Available from N 37° 15' 19.10" W 90° 39' 29.02" to N 37° 10' 55.56" W 90° 38' 41.63"	
5	N 37° 5' 56.40" W 90° 32' 47.45"	N 37° 2' 25.02" W 90° 28' 38.41"	4.8
	VOR: FAM	Available from N 37° 5' 56.40" W 90° 32' 47.45" to N 37° 2' 25.02" W 90° 28' 38.41"	
	VOR: MAW	Available from N 37° 2' 28.17" W 90° 28' 42.12" to N 37° 2' 25.02" W 90° 28' 38.41"	

DME/DME (Continued.)

Return To Summary

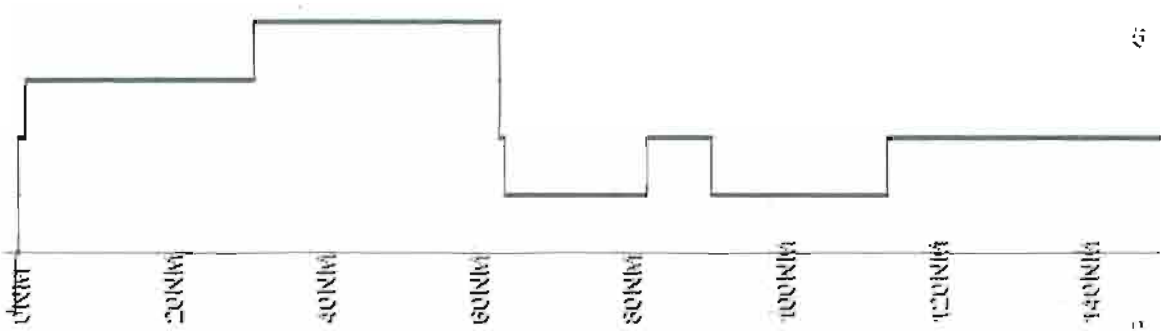
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116 90	SGF	Used
		ESV Bearing [True]: 90.0° to 118 0° Bearing [Mag]: 86.0° to 114 0°			Arc Distance. Out to 137.0 NM Altitude 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54 42" W 89° 58' 59.55" E 1	H	360 0	117 50	MEM	Used
		ESV: Bearing [True]. 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude 16000 0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]. 77.0° to 104.0° Bearing [Mag]. 71.0° to 98.0°			Arc Distance: Out to 65 0 NM Altitude: 12000 0 to 18000 0 Ft		
4	STL	N 38° 51' 38.48" W 90° 28' 56 52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190 0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	enanders
Project Name:	
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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/15/2012 5:33:16 PM
Input File:	CHUUC RW12L ARG 20120405.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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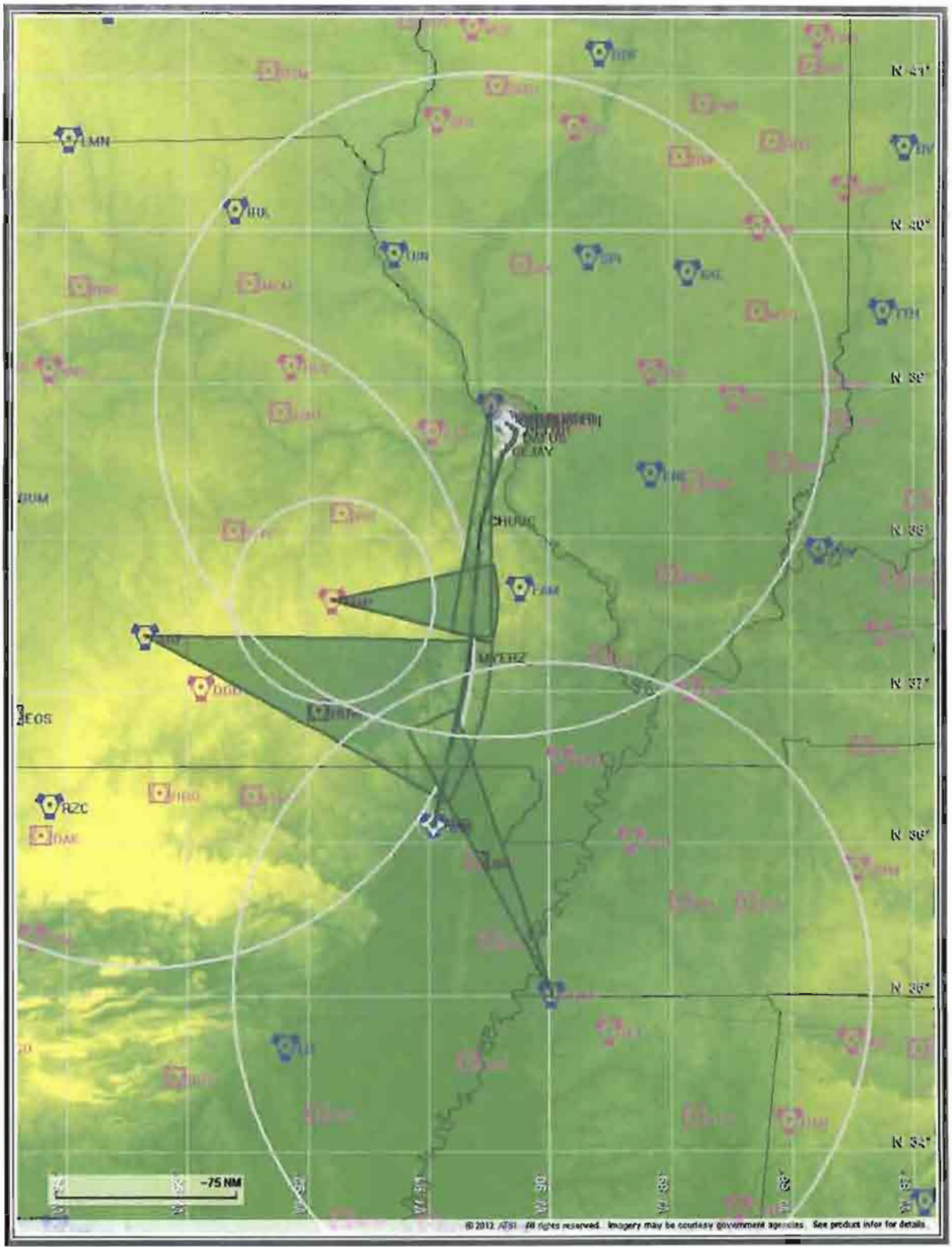
LMN
CHUUC
FAM
MYERZ
EOS
RZC
-75 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12L(...	WP	N 38° 45' 6.41" W 90° 21' 58.66"	528.3	VNAV	0.0	Fly Over	TF
RW30R(.	WP	N 38° 44' 18.99" W 90° 20' 22.51"	639.5	VNAV	130.0	Fly Over	VA
GH12L	WP	N 38° 43' 45.99" W 90° 19' 15.61"	1120.0	VNAV	145.0	Fly Over	DF
HEFNR	WP	N 38° 42' 6.39" W 90° 16' 24.55"	2500.0	VNAV	180.0	Fly By	TF
DAFUS	WP	N 38° 38' 8.82" W 90° 17' 34.70"	3312.0	VNAV	180.0	Fly By	TF
GEJAY	WP	N 38° 32' 43.89" W 90° 23' 14.64"	4712.1	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10441.8	VNAV	180.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
ARG	WP	N 36° 6' 36.07" W 90° 57' 13.30"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Flight Track comes into contact with terrain. Minimum AGL along route was -64.24 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 2315 Ft.

Total Number of DMEs Used: 10

Maximum DME Error: 0.867 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MEM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56 52" E 1	H + ESV	User	NO	1 530	Enabled	25 5 %	24.6 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0 867	Enabled	21.3 %	17 3 %
3	CSX	N 38° 45' 9 88" W 90° 21' 39.46" E 0	H	Database	NO	1 168	Enabled	18.5 %	16.2 %
4	TOY	N 38° 44' 20 97" W 89° 55' 7 06" E 4	L	Database	NO	0 867	Enabled	12.4 %	9.9 %
5	FAM	N 37° 40' 24 46" W 90° 14' 2 61" E 1	H	Database	NO	1 276	Enabled	29.4 %	33.8 %
6	MAP	N 37° 35' 26 76" W 91° 47' 18 85" E 6	L + ESV	User	NO	0.867	Enabled	9.4 %	10.4 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	0 867	Enabled	14 5 %	17.2 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32 39" E 4	H	Database	NO	0.867	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2 54" E 4	H + ESV	User	NO	1 592	Enabled	27.1 %	32.3 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59 55" E 1	H + ESV	User	NO	0.867	Enabled	5.9 %	7.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.2	STL	FTZ	CSX			
4.9	STL	FTZ	CSX	TOY		
9.1	STL	FTZ	CSX	TOY		
15.7	STL	FTZ	CSX	TOY	FAM	
44.5	STL	ARG	CSX	MAP	FAM	ENL
86.4	STL	ARG	ENL	MAP	FAM	CSX
98.1	STL	ARG	SGF	CSX	FAM	
127.4	MEM	ARG	SGF	FAM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 6.41" W 90° 21' 58.66"	N 38° 43' 26.20" W 90° 18' 42.61"	3.1
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42.61"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26 20" W 90° 18' 42.61"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42.61"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 26.20" W 90° 18' 42 61"	
2	N 38° 11' 19.13" W 90° 31' 42.86"	N 38° 8' 27.03" W 90° 32' 50.51"	3.0
	VOR: CSX	Available from N 38° 11' 19.13" W 90° 31' 42.86" to N 38° 8' 27 03" W 90° 32' 50.51"	
	VOR. FAM	Available from N 38° 11' 19.13" W 90° 31' 42.86" to N 38° 8' 27.03" W 90° 32' 50.51"	
	VOR. FTZ	Available from N 38° 11' 19.13" W 90° 31' 42.86" to N 38° 8' 27.03" W 90° 32' 50.51"	
3	N 38° 6' 38.67" W 90° 33' 33.06"	N 37° 54' 1.21" W 90° 35' 18.28"	12.7
	VOR: CSX	Available from N 38° 6' 38.67" W 90° 33' 33.06" to N 38° 6' 16.36" W 90° 33' 41.82"	
	VOR: FAM	Available from N 38° 6' 38.67" W 90° 33' 33.06" to N 37° 54' 1.21" W 90° 35' 18.28"	
4	N 37° 15' 19.10" W 90° 39' 29.02"	N 37° 10' 41.33" W 90° 40' 9.49"	4.7
	VOR: FAM	Available from N 37° 15' 19.10" W 90° 39' 29.02" to N 37° 10' 41.33" W 90° 40' 9 49"	
5	N 36° 7' 3.00" W 90° 57' 6.25"	N 36° 6' 37.54" W 90° 57' 12.92"	0.4
	VOR: ARG	Available from N 36° 7' 3.00" W 90° 57' 6.25" to N 36° 6' 37.54" W 90° 57' 12.92"	
	VOR: JBR	Available from N 36° 7' 3.00" W 90° 57' 6.25" to N 36° 6' 37 54" W 90° 57' 12.92"	

DME/DME (Continued.)

Return To Summary

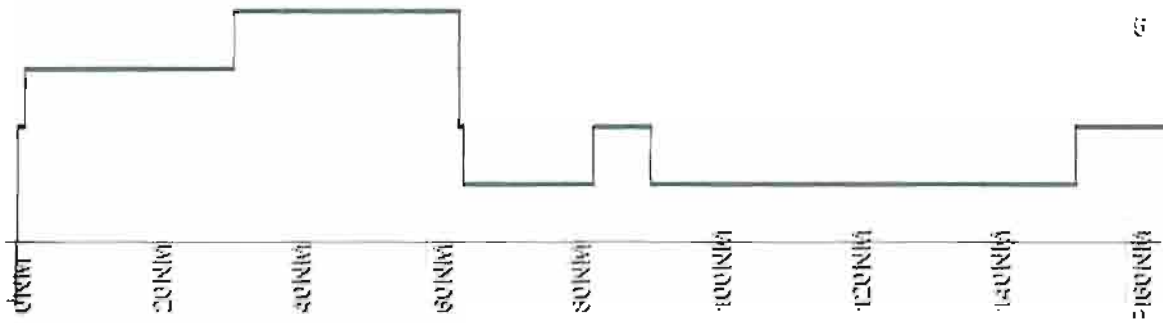
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2 54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118 0° Bearing [Mag]: 86 0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331 0° to 341.0° Bearing [Mag]: 330.0° to 340 0°			Arc Distance: Out to 118.0 NM Altitude: 16000 0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374 0	113.40	MAP	Used
		ESV: Bearing [True]: 77 0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000 0 Ft.		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449 5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: Radar Types: ARSR and ASR



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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/15/2012 5:57:16 PM
Input File:	CHUUC RW11 MAW 20120405.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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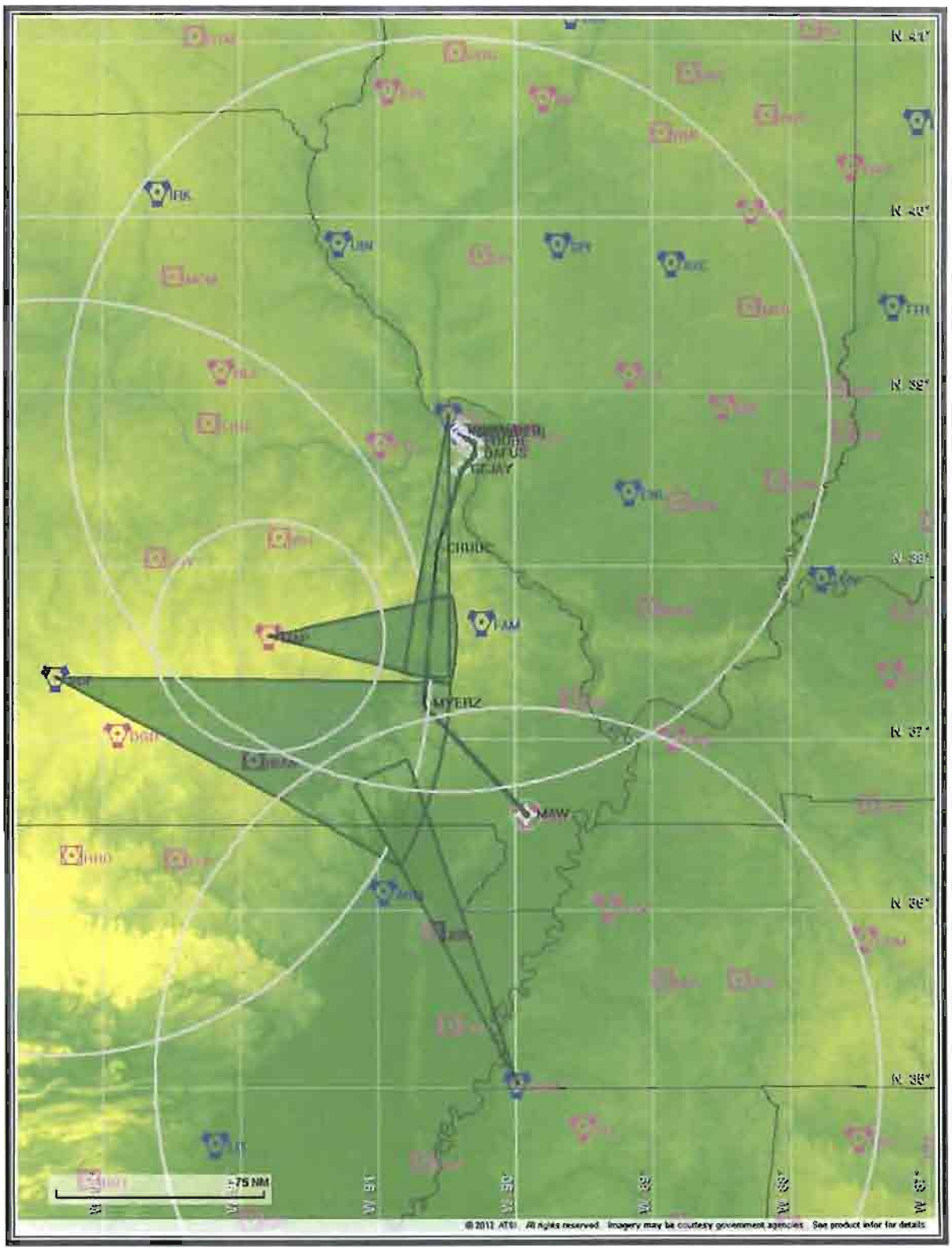

MYERZ
MAW
75 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW11(A...	WP	N 38° 45' 35.83" W 90° 24' 35.55"	618.0	VNAV	0.0	Fly Over	TF
RW29(D...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	591.0	VNAV	130.0	Fly Over	VA
GH11	WP	N 38° 44' 12.38" W 90° 21' 46.17"	1120.0	VNAV	145.0	Fly Over	DF
LUUBE	WP	N 38° 42' 8.40" W 90° 17' 35.03"	2500.0	VNAV	160.0	Fly By	TF
DAFUS	WP	N 38° 38' 8.82" W 90° 17' 34.70"	3297.8	VNAV	160.0	Fly By	TF
GEJAY	WP	N 38° 32' 43.89" W 90° 23' 14.64"	4697.8	VNAV	160.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10427.5	VNAV	180.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Flight Track comes into contact with terrain. Minimum AGL along route was -2 92 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER

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: 0.165 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
Minimum MSL DMEs Avail: 2249 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.870 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MAW, MEM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.532	Enabled	27.2 %	26.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.870	Enabled	22.4 %	18.5 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39 46" E 0	H	Database	NO	1.170	Enabled	18.9 %	16.6 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.870	Enabled	13 5 %	11.1 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1 276	Enabled	13.6 %	15 2 %
6	MAP	N 37° 35' 26 76" W 91° 47' 18 85" E 6	L + ESV	User	NO	0 870	Enabled	10.0 %	11.2 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13 30" E 4	H	Database	NO	1 113	Enabled	25.9 %	31.2 %
8	ENL	N 38° 25' 12 00" W 89° 9' 32.39" E 4	H	Database	NO	0 870	Enabled	2.1 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.101	Enabled	3 7 %	4.5 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41 12" E 3	L	Database	NO	0.999	Enabled	19.7 %	23.8 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.870	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1 5	STL					
2 2	STL	FTZ	CSX			
6.1	STL	FTZ	CSX	TOY		
10.2	STL	FTZ	CSX	TOY		
16.9	STL	FTZ	CSX	TOY	FAM	
45.7	STL	ARG	CSX	MAP	FAM	ENL
87.2	STL	ARG	ENL	MAP	FAM	CSX
98.5	STL	ARG	SGF	CSX	FAM	
108.7	MAW	ARG	FAM	MEM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length (NM)
1	N 38° 45' 35.83" W 90° 24' 35.55"	N 38° 43' 58.08" W 90° 21' 17.23"	3.1
	VOR: CSX	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
	VOR: FTZ	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
	VOR: STL	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
	VOR: TOY	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
2	N 38° 41' 30.98" W 90° 17' 34.71"	N 38° 40' 44.93" W 90° 17' 34.70"	0.8
	VOR: CSX	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
	VOR: FTZ	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
	VOR: STL	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
	VOR: TOY	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
3	N 38° 11' 17.41" W 90° 31' 43.54"	N 38° 8' 25.31" W 90° 32' 51.19"	3.0
	VOR: CSX	Available from N 38° 11' 17.41" W 90° 31' 43.54" to N 38° 8' 25.31" W 90° 32' 51.19"	
	VOR: FAM	Available from N 38° 11' 17.41" W 90° 31' 43.54" to N 38° 8' 25.31" W 90° 32' 51.19"	
	VOR: FTZ	Available from N 38° 11' 17.41" W 90° 31' 43.54" to N 38° 8' 25.31" W 90° 32' 51.19"	
4	N 38° 6' 40.13" W 90° 33' 32.49"	N 37° 54' 0.16" W 90° 35' 18.39"	12.8
	VOR: CSX	Available from N 38° 6' 40.13" W 90° 33' 32.49" to N 38° 6' 17.82" W 90° 33' 41.24"	
	VOR: FAM	Available from N 38° 6' 40.13" W 90° 33' 32.49" to N 37° 54' 0.16" W 90° 35' 18.39"	
	VOR: FTZ	Available from N 38° 6' 40.13" W 90° 33' 32.49" to N 38° 6' 40.13" W 90° 33' 32.49"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 37° 15' 18.05" W 90° 39' 29.13"	N 37° 10' 54.72" W 90° 38' 40.70"	4.7
	VOR: FAM	Available from N 37° 15' 18.05" W 90° 39' 29.13" to N 37° 10' 54.72" W 90° 38' 40.70"	
6	N 37° 5' 55.58" W 90° 32' 46.50"	N 37° 2' 24.20" W 90° 28' 37.46"	4.8
	VOR: FAM	Available from N 37° 5' 55.58" W 90° 32' 46.50" to N 37° 2' 24.20" W 90° 28' 37.46"	
	VOR: MAW	Available from N 37° 2' 30.51" W 90° 28' 44.89" to N 37° 2' 24.20" W 90° 28' 37.46"	

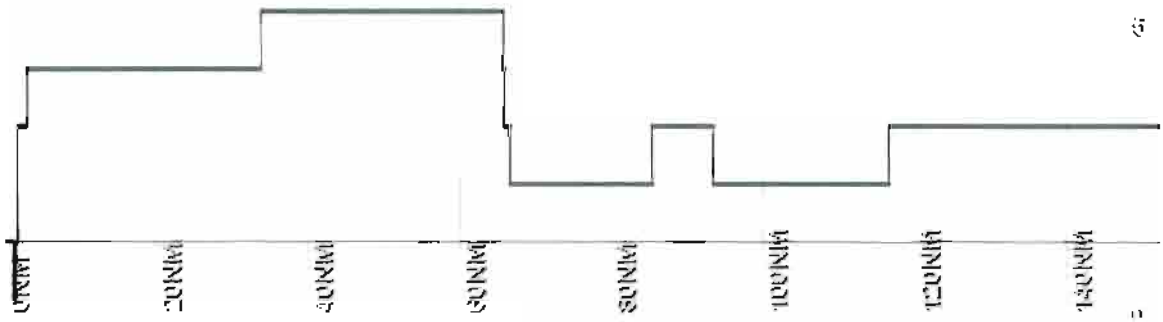
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV: Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types**: ARSR and ASR



Name:	enanders
Project Name:	
Output File:	KSTL SID RW11 ARG 20120515_1819
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	5/15/2012 6:19:02 PM
Input File:	CHUUC RW11 ARG 20120405.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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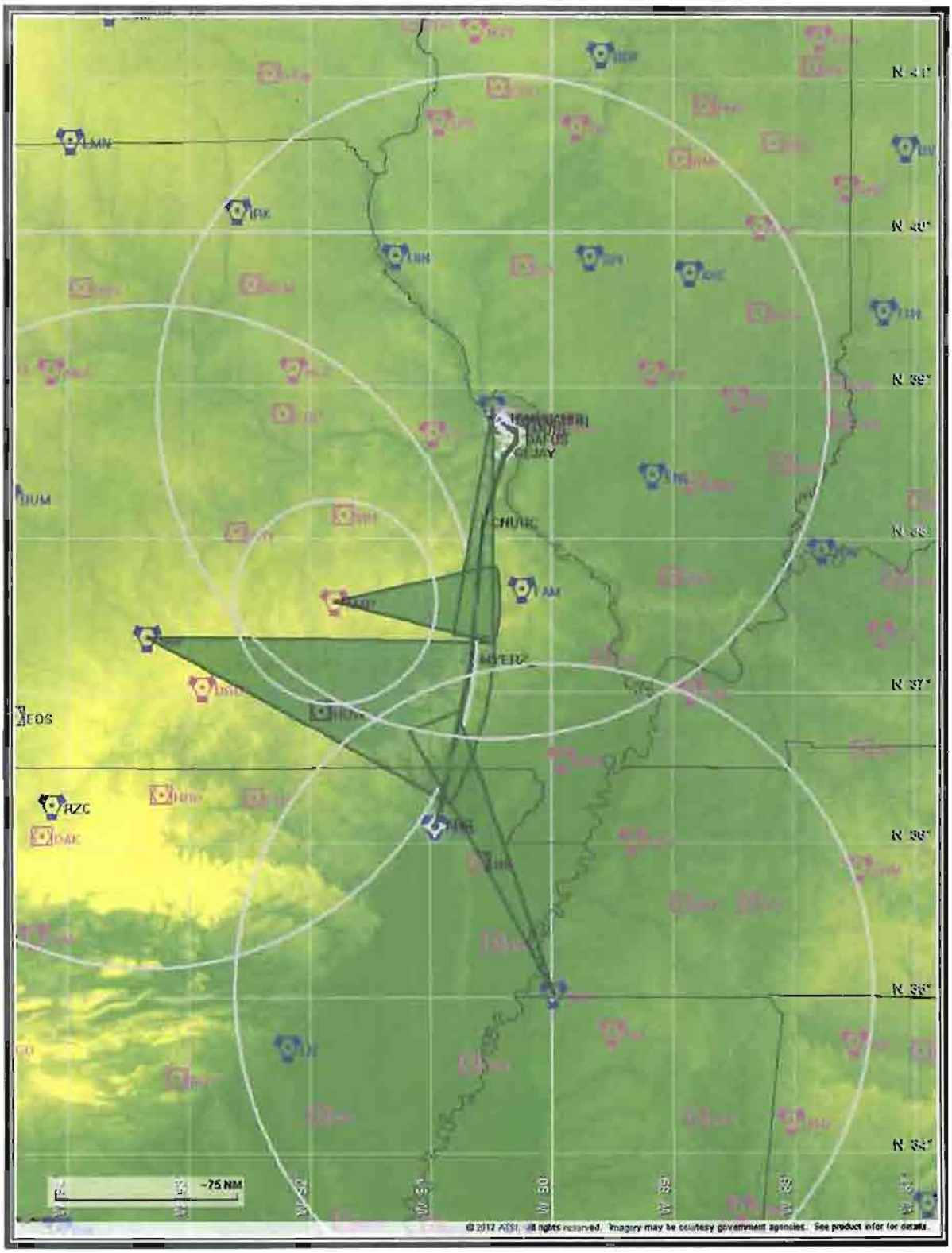
N 41°
N 40°
N 39°
N 38°
N 37°
N 36°
N 35°
N 34°
LMN
IRK
DUM
EDS
RZC
DAK
CHUUC
FAM
~75 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW11(A...	WP	N 38° 45' 35.83" W 90° 24' 35.55"	618.0	VNAV	0.0	Fly Over	TF
RW29(D...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	591.0	VNAV	130.0	Fly Over	VA
GH11	WP	N 38° 44' 12.38" W 90° 21' 46.17"	1120.0	VNAV	145.0	Fly Over	DF
LUUBE	WP	N 38° 42' 8.40" W 90° 17' 35.03"	2500.0	VNAV	180.0	Fly By	TF
DAFUS	WP	N 38° 38' 8.82" W 90° 17' 34.70"	3297.8	VNAV	180.0	Fly By	TF
GEJAY	WP	N 38° 32' 43.89" W 90° 23' 14.64"	4697.8	VNAV	180.0	Fly By	TF
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10427.5	VNAV	180.0	Fly By	TF
MYERZ_	WP	N 37° 11' 54.18" W 90° 39' 50.95"	18000.0	VNAV	240.0	Fly By	TF
ARG	WP	N 36° 6' 36.07" W 90° 57' 13.30"	18000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
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

Flight Track comes into contact with terrain. Minimum AGL along route was -2.92 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

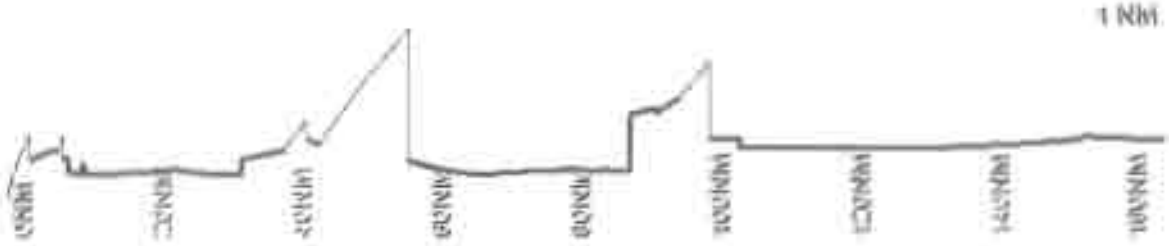
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 2249 Ft

Total Number of DMEs Used: 10

Maximum DME Error: 0.870 NM

No Critical DMEs were found

Available DMEs: STL, FTZ, CSX, TOY, FAM, MAP, ARG, ENL, SGF, MEM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.532	Enabled	25.3 %	24.6 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.870	Enabled	20.8 %	17.0 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	1.170	Enabled	18.2 %	16.0 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.870	Enabled	12.5 %	10.2 %
5	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	1.276	Enabled	29.1 %	33.5 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.870	Enabled	9.3 %	10.3 %
7	ARG	N 38° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	0.870	Enabled	14.5 %	17.1 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.870	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.592	Enabled	26.9 %	32.1 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.870	Enabled	5.8 %	6.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.2	STL	FTZ	CSX			
6.1	STL	FTZ	CSX	TOY		
10.2	STL	FTZ	CSX	TOY		
16.9	STL	FTZ	CSX	TOY	FAM	
45.7	STL	ARG	CSX	MAP	FAM	ENL
87.6	STL	ARG	ENL	MAP	FAM	CSX
99.2	STL	ARG	SGF	CSX	FAM	
128.5	MEM	ARG	SGF	FAM		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 35.83" W 90° 24' 35.55"	N 38° 43' 58.08" W 90° 21' 17.23"	3.1
	VOR: CSX	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
	VOR: FTZ	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
	VOR: STL	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
	VOR: TOY	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.08" W 90° 21' 17.23"	
2	N 38° 41' 30.98" W 90° 17' 34.71"	N 38° 40' 44.93" W 90° 17' 34.70"	0.8
	VOR: CSX	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
	VOR: FTZ	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
	VOR: STL	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
	VOR: TOY	Available from N 38° 41' 30.98" W 90° 17' 34.71" to N 38° 40' 44.93" W 90° 17' 34.70"	
3	N 38° 11' 17.41" W 90° 31' 43.54"	N 38° 8' 25.31" W 90° 32' 51.19"	3.0
	VOR: CSX	Available from N 38° 11' 17.41" W 90° 31' 43.54" to N 38° 8' 25.31" W 90° 32' 51.19"	
	VOR: FAM	Available from N 38° 11' 17.41" W 90° 31' 43.54" to N 38° 8' 25.31" W 90° 32' 51.19"	
	VOR: FTZ	Available from N 38° 11' 17.41" W 90° 31' 43.54" to N 38° 8' 25.31" W 90° 32' 51.19"	
4	N 38° 6' 40.13" W 90° 33' 32.49"	N 37° 54' 0.16" W 90° 35' 18.39"	12.8
	VOR: CSX	Available from N 38° 6' 40.13" W 90° 33' 32.49" to N 38° 6' 17.82" W 90° 33' 41.24"	
	VOR: FAM	Available from N 38° 6' 40.13" W 90° 33' 32.49" to N 37° 54' 0.16" W 90° 35' 18.39"	
	VOR: FTZ	Available from N 38° 6' 40.13" W 90° 33' 32.49" to N 38° 6' 40.13" W 90° 33' 32.49"	

DME/DME (Continued.)

Return To Summary

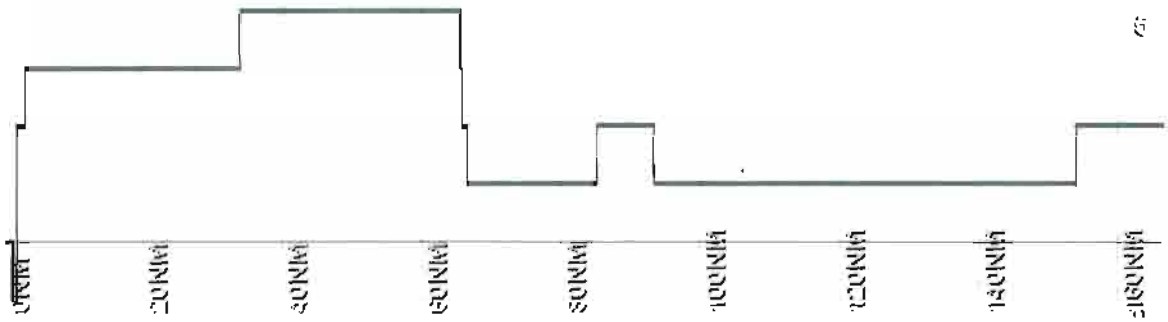
Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 37° 15' 18.05" W 90° 39' 29.13"	N 37° 10' 44.46" W 90° 40' 8.65"	4.6
	VOR. FAM	Available from N 37° 15' 18.05" W 90° 39' 29.13" to N 37° 10' 44.46" W 90° 40' 8.65"	
6	N 36° 7' 6.14" W 90° 57' 5.43"	N 36° 6' 36.42" W 90° 57' 13.21"	0.5
	VOR. ARG	Available from N 36° 7' 6.14" W 90° 57' 5.43" to N 36° 6' 36.42" W 90° 57' 13.21"	
	VOR. JBR	Available from N 36° 7' 6.14" W 90° 57' 5.43" to N 36° 6' 36.42" W 90° 57' 13.21"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H	360.0	117.50	MEM	Used
		ESV: Bearing [True]: 331.0° to 341.0° Bearing [Mag]: 330.0° to 340.0°			Arc Distance: Out to 118.0 NM Altitude: 16000.0 to 35000.0 Ft.		
3	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L	1374.0	113.40	MAP	Used
		ESV. Bearing [True]: 77.0° to 104.0° Bearing [Mag]: 71.0° to 98.0°			Arc Distance: Out to 65.0 NM Altitude: 12000.0 to 18000.0 Ft		
4	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 180.0° to 190.0° Bearing [Mag]: 179.0° to 189.0°			Arc Distance: Out to 90.0 NM Altitude: 12000.0 to 16000.0 Ft		

Radar Analysis

Return To Summary

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