Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 10/02/2012	Task #: 2012060424528802004	Request #: 20120604245288
Procedure: SID CHUUC (RNAV) TWO ST. LOUIS MO KSTL		Airport ID: KSTL	Airport: LAMBERT-ST LOUIS INTL		Reimbursable #:
City: ST LOUIS	ST: MO	GPS #:		Estimated Chart Date: 06/27/2013	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: ROSS BARTO			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	10/02/2012	02/20/2013	JEREL PAWLEY	
QA:	02/20/2013	03/05/2013	CASIMIR TABAKA	
Liaison:	03/05/2013		Spurlin	DME/DME

DME / DME

ESV REQUEST INCLUDED

Procedure Comments: ENROUTE

Remark Type: INFORMATION

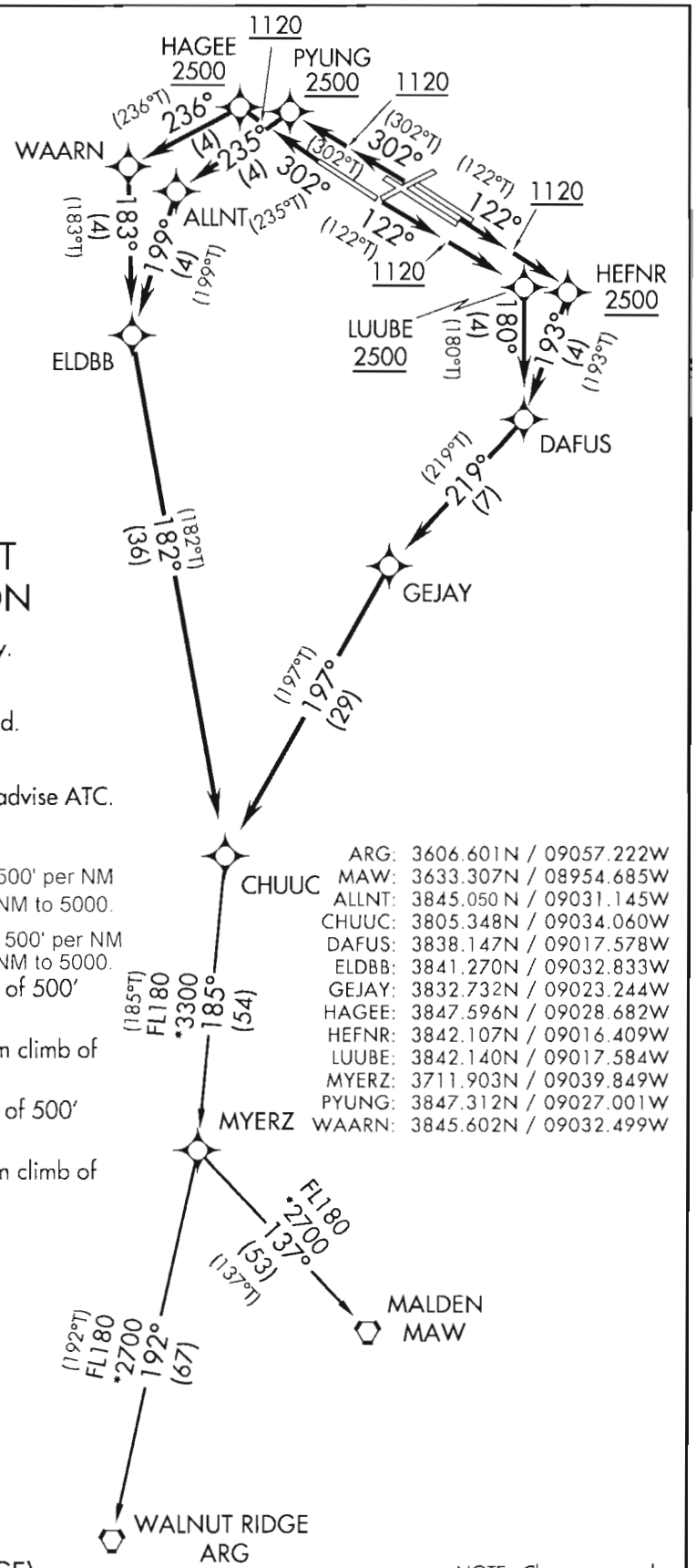
ST LOUIS, MO LAMBERT-ST LOUIS INTL (KSTL) CHUUC TWO (RNAV) (SID) ENROUTE-YES FC: 4.30.13 PUB: 6.27.13

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

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

CHUUC TWO DEPARTURE (RNAV)

ATIS
125.025 379.925
CLNC DEL
119.5 363.1
GND METER
127.55 360.2 (EAST)
121.075 346.35 (WEST)
GND CON
121.9 348.6 (Inbound)
121.65 387.05 (Outbound)
118.925 227.125 (West)
ST. LOUIS TOWER
120.05 284.6 (NORTH)
118.5 257.7 (SOUTH)
132.475 239.275 (WEST)
ST. LOUIS DEP CON
128.1 307.05 (S/W)



PROTOTYPE: NOT FOR NAVIGATION

NOTE: For use by Turbojet aircraft only.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: Accelerate to 250K; if unable, advise ATC.

TAKEOFF MINIMUMS

Rwy 6: Standard with minimum climb of 500' per NM to 1120 then minimum climb of 240' per NM to 5000.

Rwy 24: Standard with minimum climb of 500' per NM to 1120 then minimum climb of 260' per NM to 5000.

Rwy 11: Standard with minimum climb of 500' per NM to LUUBE.

Rwys 12L, 12R: Standard with minimum climb of 500' per NM to HEFNR.

Rwy 29: Standard with minimum climb of 500' per NM to HAGEE.

Rwys 30L, 30R: Standard with minimum climb of 500' per NM to PYUNG.

ARG:	3606.601N / 09057.222W
MAW:	3633.307N / 08954.685W
ALLNT:	3845.050 N / 09031.145W
CHUUC:	3805.348N / 09034.060W
DAFUS:	3838.147N / 09017.578W
ELDBB:	3841.270N / 09032.833W
GEJAY:	3832.732N / 09023.244W
HAGEE:	3847.596N / 09028.682W
HEFNR:	3842.107N / 09016.409W
LUUBE:	3842.140N / 09017.584W
MYERZ:	3711.903N / 09039.849W
PYUNG:	3847.312N / 09027.001W
WAARN:	3845.602N / 09032.499W

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 6: Climb heading 063 to 1120, then as assigned by ATC, expext RADAR vectors to CHUUC. Thence...

TAKEOFF RWY 24: Climb heading 243 to 1120, then as assigned by ATC, expext RADAR vectors to CHUUC. Thence...

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 RUNWAYS 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 RUNWAYS 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 (CHUUC2.MAW)
MYERZ TRANSITION (CHUUC2.MYERZ)
WALNUT RIDGE TRANSITION (CHUUC2.ARG)

PROTOTYPE: NOT FOR NAVIGATION

TAKEOFF OBSTACLE NOTES

Rwy 6: Railroad 578′ from DER, 620′ left of centerline, 23′ AGL/557′ MSL. OL on LDA and antenna on bldg 1038′ from DER, 706′ right of centerline, 30′ AGL 598′MSL.

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.

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ENL	City : CENTRALIA	Ident : ENL	State : IL
Type/Class : TACR	Frequency : M1184	Reference No.: 12041940	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698174-036	227	257	90	91	160

Requirement: REQUIRED FOR NEW CHUUC1 SID FOR STL

Signature: Enander Scott	Routing Symbol: AJV-C21	Date: 04/19/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-036	227	257	90	91	160	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 SID FOR STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 04/19/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-036	227	257	90	91	160	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 SID FOR STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 04/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-036	227	257				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ENL	City : CENTRALIA	Ident : ENL	State : IL
Type/Class : TACR	Frequency : M1184	Reference No.: 12041942	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698174-037	208	225	144	176	450

Requirement: REQUIRED FOR NEW CHUUC1 SID FOR STL

Signature: Enander Scott	Routing Symbol: AJV-C21	Date: 04/19/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-037	208	225	144	176	450	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 SID FOR STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 04/19/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-037	208	225	144	176	450	APPROVE

Requirement/Remarks: REQUIRED FOR NEW CHUUC1 SID FOR STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 04/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-037	208	225				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

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	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 6: CLIMB HEADING 062.81 TO 1120, THEN AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO CHUUC. THENCE...
TAKEOFF RWY 24: CLIMB HEADING 242.83 TO 1120, THEN AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO CHUUC. THENCE...
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	CHUUC2.ARG	CHUUC	MYERZ	TRACK 184.95	53.58	FL180	3300	
		MYERZ	ARG VORTAC	TRACK 192.19	66.70	FL180	2700	
MALDEN	CHUUC2.MAW	CHUUC	MYERZ	TRACK 184.95	53.58	FL180	3300	
		MYERZ	MAW VORTAC	TRACK 136.54	52.90	FL180	2700	
MYERZ	CHUUC2.MYERZ	CHUUC	MYERZ	TRACK 184.95	53.58	FL180	3300	

QUALITY 3 CHECKED

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	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

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

TAKEOFF MINIMUMS:
RWY 6 STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1120 THEN MINIMUM CLIMB OF 240 FT PER NM TO 5000.
RWY 24 STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1120 THEN MINIMUM CLIMB OF 260 FT PER NM TO 5000.
RWY 11, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO LUUBE.
RWY 12L, 12R STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO HEFNR.
RWY 29 STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO HAGEE.
RWY 30L, 30R STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO PYUNG.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 6, RAILROAD 578 FT FROM DER, 620 FT LEFT OF CENTERLINE, 23 FT AGL/557 MSL. OL ON LDA AND ANTENNA ON BLDG 1038 FT FROM DER, 706 FT RIGHT OF CENTERLINE, 30 FT AGL/598 FT MSL.

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:

QUALITY 3 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	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

ADDITIONAL FLIGHT DATA:

REFERENCE MAGVAR: KSTL 00 EPOCH YR: 2000.
DME/DME ASSESSMENT: SAT (RNP 2.0)
PILOT NAVIGATION AREA:
7NM ARC CENTERED ON CHUUC (IF), CW
FROM: POINT A (BEARING 140 DEGREES TO CHUUC)
TO: POINT B (BEARING 230 DEGREES TO CHUUC)
MINIMUM ALTITUDE – 10,000.

AIRPORTS SERVED:

LAMBERT-ST. LOUIS INTL	ST. LOUIS, MO

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

QUALITY CHECKED 3

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	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

JILL OLSON (ROSS BARTO) AJV-353 09/20/2012

APPROVED BY:

LARRY STROUT AVJ-353

COORDINATED WITH:

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

CHANGES:

1. ADDED RWYS 6 AND 24.
2. CLIMB GRADIENT OF 500 FT PER NM TO 2500, CHANGED TO 500 FT PER NM TO FIRST WAYPOINT.
3. CHANGED RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT TO RADAR REQUIRED.
4. ADDED PNA FOR RWY 6/24 TO ALLOW RADAR VECTORS TO CHUUC.

REASONS:

FPT REQUEST

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW06 (AER)	384448.04N/0902252.43W	N	-	-	-	-			
1120 MSL	-	-	-	VA	062.81	-			CG 500 FT/NM TO 1120
-	-	-	-	VM	062.81	-			CG 240 FT/NM TO 5000
CHUUC	380520.86N/0903403.58W	Y	FB	DF	-	-			
RW11 (AER)	384535.83N/0902435.55W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.17	-			CG 500 FT/NM TO LUUBE
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 HEFNR
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)
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO HEFNR
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			
RW24 (AER)	384522.38N/0902127.02W	N	-	-	-	-			
1120 MSL	-	-	-	VA	242.83	-			CG 500 FT/NM TO 1120
-	-	-	-	VM	242.83	-			CG 260 FT/NM TO 5000
CHUUC	390520.86N/0903403.58W	Y	FB	DF	-	-			

QUALITY CHECKED 3

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW29 (AER)	384448.46N/0902259.39W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.18	-			CG 500 FT/NM TO HAGEE
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 PYUNG
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			
RW30R (AER)	384418.99N/0902022.51W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.21	-			CG 500 FT/NM TO PYUNG
PYUNG	394718.73N/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	FB	IF	-	-			CHUUC2.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	FB	IF	-	-			CHUUC2.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			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
CHUUC	380520.86N/0903403.58W	Y	FB	IF	-	-			CHUUC2.MYERZ
MYERZ	371154.18N/0903950.95W	Y	FB	TF	184.95	53.58			

QUALITY CHECKED 3

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        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      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALLNT K30    W     N38450297W090310869                    W0009     NAR           ALLNT
        SUSAEAENRT   CHUUC K30    W     N38052086W090340358                    W0008     NAR           CHUUC
        SUSAEAENRT   DAFUS K30    W     N38380882W090173470                    W0011     NAR           DAFUS
        SUSAEAENRT   ELDBB K30    W     N38411621W090324996                    W0009     NAR           ELDBB
        SUSAEAENRT   GEJAY K30    W     N38324389W090231464                    W0010     NAR           GEJAY
        SUSAEAENRT   HAGEE K30    W     N38473574W090284090                    W0010     NAR           HAGEE
        SUSAEAENRT   HEFNR K30    W     N38420639W090162455                    W0011     NAR           HEFNR
        SUSAEAENRT   LUUBE K30    W     N38420840W090173503                    W0011     NAR           LUUBE
        SUSAEAENRT   MYERZ K30    C   H N37115418W090395095                    W0007     NAR           MYERZ
        SUSAEAENRT   PYUNG K30    W     N38471873W090270007                    W0010     NAR           PYUNG
        SUSAEAENRT   WAARN K30    W     N38453612W090322993                    W0009     NAR           WAARN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3ASTL     0     110YHN38445531W090221210E000000618         1800018000C    MNAR    LAMBERT-ST LOUIS INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3DCHUUC24RW06  010         0        VA                    0628        + 01120     18000
        SUSAP KSTLK3DCHUUC24RW06  020         0        VM                    0628
        SUSAP KSTLK3DCHUUC24RW06  030CHUUCK3EA0EE   010DF
        SUSAP KSTLK3DCHUUC24RW11  010         0        VA                    1222        + 01120     18000
        SUSAP KSTLK3DCHUUC24RW11  020LUUBEK3EA0E    010DF                              + 02500
        SUSAP KSTLK3DCHUUC24RW11  030DAFUSK3EA0E    010TF
        SUSAP KSTLK3DCHUUC24RW11  040GEJAYK3EA0E    010TF
        SUSAP KSTLK3DCHUUC24RW11  050CHUUCK3EA0EE   010TF
        SUSAP KSTLK3DCHUUC24RW12B 010         0        VA                    1222        + 01120     18000
        SUSAP KSTLK3DCHUUC24RW12B 020HEFNRK3EA0E    010DF                              + 02500
        SUSAP KSTLK3DCHUUC24RW12B 030DAFUSK3EA0E    010TF
        SUSAP KSTLK3DCHUUC24RW12B 040GEJAYK3EA0E    010TF
        SUSAP KSTLK3DCHUUC24RW12B 050CHUUCK3EA0EE   010TF
        SUSAP KSTLK3DCHUUC24RW24  010         0        VA                    2428        + 01120     18000
        SUSAP KSTLK3DCHUUC24RW24  020         0        VM                    2428
```

QUALITY 4 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

```
SUSAP KSTLK3DCHUUC24RW24  030CHUUCK3EA0EE   010DF
SUSAP KSTLK3DCHUUC24RW29  010         0        VA                    3022        + 01120     18000
SUSAP KSTLK3DCHUUC24RW29  020HAGEEK3EA0E    010DF                                + 02500
SUSAP KSTLK3DCHUUC24RW29  030WAARNK3EA0E    010TF
SUSAP KSTLK3DCHUUC24RW29  040ELDBBK3EA0E    010TF
SUSAP KSTLK3DCHUUC24RW29  050CHUUCK3EA0EE   010TF
SUSAP KSTLK3DCHUUC24RW30B 010         0        VA                    3022        + 01120     18000
SUSAP KSTLK3DCHUUC24RW30B 020PYUNGK3EA0E    010DF                                + 02500
SUSAP KSTLK3DCHUUC24RW30B 030ALLNTK3EA0E    010TF
SUSAP KSTLK3DCHUUC24RW30B 040ELDBBK3EA0E    010TF
SUSAP KSTLK3DCHUUC24RW30B 050CHUUCK3EA0EE   010TF
SUSAP KSTLK3DCHUUC26ARG   010CHUUCK3EA0E       IF                                                18000
SUSAP KSTLK3DCHUUC26ARG   020MYERZK3EA0E    010TF
SUSAP KSTLK3DCHUUC26ARG   030ARG  K4D 0VE   010TF
SUSAP KSTLK3DCHUUC26MAW   010CHUUCK3EA0E       IF                                                18000
SUSAP KSTLK3DCHUUC26MAW   020MYERZK3EA0E    010TF
SUSAP KSTLK3DCHUUC26MAW   030MAW  K3D 0VE   010TF
SUSAP KSTLK3DCHUUC26MYERZ 010CHUUCK3EA0E       IF                                                18000
SUSAP KSTLK3DCHUUC26MYERZ 020MYERZK3EA0EE   010TF
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3GRW06    0076070628 N38444804W090225243-0200    +013660055100004615 0IIJAK1
        SUSAP KSTLK3GRW11    0090011222 N38453583W090243555-0700    +015700061800005915 0IIOGZ3
        SUSAP KSTLK3GRW12L   0090031222 N38450641W090215866+0800    +012970052800005415 0IILDZ3
        SUSAP KSTLK3GRW12R   0110191222 N38451159W090223998+0400    +013320054004675420 0IILMR1
        SUSAP KSTLK3GRW24    0076072428 N38452238W090212702+0200    +013130053400005015 0IISTL1
        SUSAP KSTLK3GRW29    0090013022 N38444846W090225939+0700    +013810055600005615 0IIRQN1
        SUSAP KSTLK3GRW30L   0110193022 N38441708W090204942-0400    +014630058302015820 0IIBKY1    IRMKL
        SUSAP KSTLK3GRW30R   0090033022 N38441899W090202251-0800    +015290060500005715 0IISJW3
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW06		010		VA		FB		062.8()		AA 01120	
	RW06		020		VM		FB		062.8()			
	RW06	CHUUC	030		DF		FB	1.0				
	RW11		010		VA		FB		122.2()		AA 01120	
	RW11	LUUBE	020		DF		FB	1.0			AA 02500	
	RW11	DAFUS	030		TF		FB	1.0				
	RW11	GEJAY	040		TF		FB	1.0				
	RW11	CHUUC	050		TF		FB	1.0				
	RW12B		010		VA		FB		122.2()		AA 01120	
	RW12B	HEFNR	020		DF		FB	1.0			AA 02500	
	RW12B	DAFUS	030		TF		FB	1.0				
	RW12B	GEJAY	040		TF		FB	1.0				
	RW12B	CHUUC	050		TF		FB	1.0				
	RW24		010		VA		FB		242.8()		AA 01120	
	RW24		020		VM		FB		242.8()			
	RW24	CHUUC	030		DF		FB	1.0				
	RW29		010		VA		FB		302.2()		AA 01120	
	RW29	HAGEE	020		DF		FB	1.0			AA 02500	
	RW29	WAARN	030		TF		FB	1.0				
	RW29	ELDBB	040		TF		FB	1.0				
	RW29	CHUUC	050		TF		FB	1.0				
	RW30B		010		VA		FB		302.2()		AA 01120	
	RW30B	PYUNG	020		DF		FB	1.0			AA 02500	
	RW30B	ALLNT	030		TF		FB	1.0				
	RW30B	ELDBB	040		TF		FB	1.0				
	RW30B	CHUUC	050		TF		FB	1.0				
	ARG	CHUUC	010		IF		FB					
	ARG	MYERZ	020		TF		FB	1.0				
	ARG	ARG	030		TF		FB	1.0				
	MAW	CHUUC	010		IF		FB					
	MAW	MYERZ	020		TF		FB	1.0				
	MAW	MAW	030		TF		FB	1.0				
	MYERZ	CHUUC	010		IF		FB					
	MYERZ	MYERZ	020		TF		FB	1.0				

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

QUALITY 4 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CHUUC	TWO	CHUUC2.CHUUC	ONE	09/20/2012	

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
PYUNG	N384718.73	W0902700.07	N3847.312	W09027.001
WAARN	N384536.12	W0903229.93	N3845.602	W09032.499
RW06	N384448.04	W0902252.43	N3844.801	W09022.874
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
RW24	N384522.38	W0902127.02	N3845.373	W09021.450
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
RW06	00551	46
RW11	00618	59
RW12L	00528	54
RW12R	00540	54
RW24	00534	50
RW29	00556	56
RW30L	00583	58
RW30R	00605	57

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY CHECKED 3

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY CHECKED 3

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

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.

INFO ONLY

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)

QUALITY 3 CHECKED

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:

QUALITY 3 CHECKED

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

INFO ONLY

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:** 08/27/2012 **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: 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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY CHECKED 3

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:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

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

INFO ONLY

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

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.

INFO ONLY

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 (ALT MISS)		3	KJBR	JONESBORO	AR (US)
IAP	RNAV (GPS) RWY 23			KJBR	JONESBORO	AR (US)
IAP	VOR RWY 23			KJBR	JONESBORO	AR (US)
IAP	VOR/DME RWY 18			KM19	NEWPORT	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	BOOSH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	DAWGG		4	KMEM	MEMPHIS	TN (US)
STAR	FNCHR (RNAV)		5	KMEM	MEMPHIS	TN (US)

QUALITY 3 CHECKED

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

COMPULSORY REPORTING POINT: NO

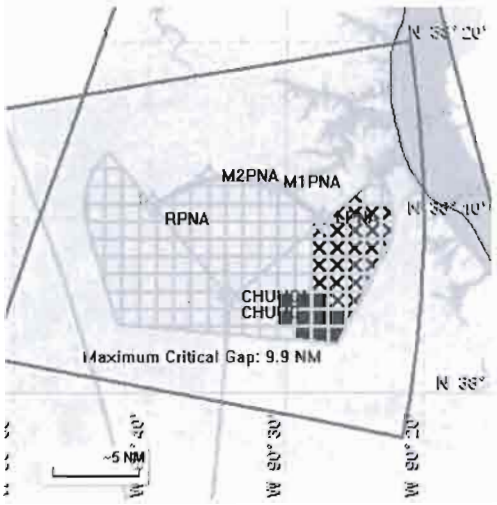
RECORD REVISION NUMBER: 21 **DATE OF REVISION:** 07/26/2012

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:** 06/19/2012	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

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

QUALITY 3 CHECKED



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/17/2012 11:30:09 AM
Input File:	Grid Area Assessment
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Grid	✔	DME/DME Grid Analysis

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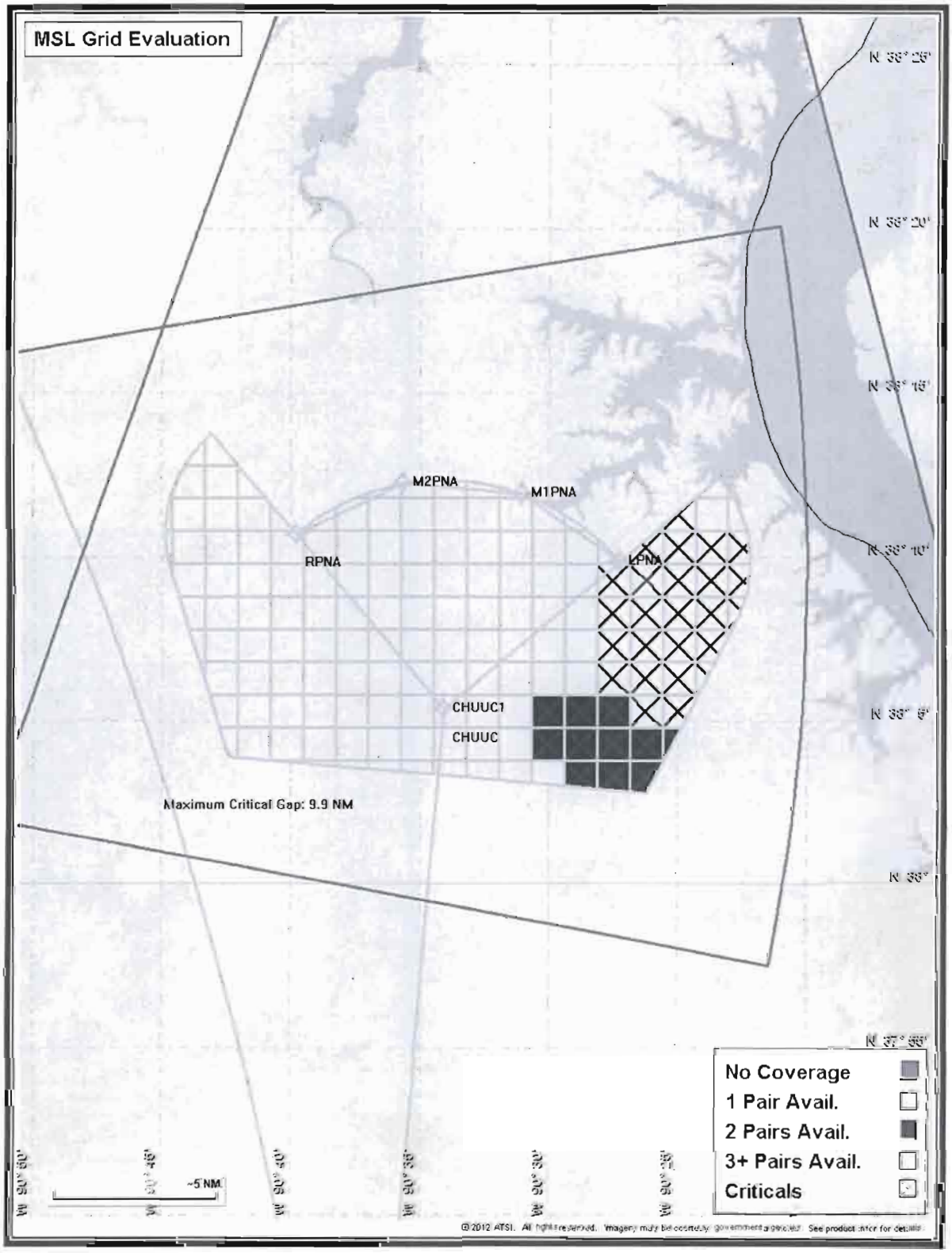

MSL Grid Evaluation
M2PNA
M1PNA
RPNA
LPNA
CHUUC1
CHUUC
Maximum Critical Gap: 9.9 NM
~5 NM
No Coverage
1 Pair Avail.
2 Pairs Avail.
3+ Pairs Avail.
Criticals

DME/DME Grid Analysis

Return To Summary

Coverage Exists (Criticals)

Polygon Grid Definition:

Settings:

1	Lat: N 38° 9' 51.54" Lon: W 90° 27' 16.27"	21	Lat: N 38° 12' 21.43" Lon: W 90° 44' 24.04"
2	Lat: N 38° 12' 26.26" Lon: W 90° 23' 23.39"	22	Lat: N 38° 12' 47.37" Lon: W 90° 44' 6.67"
3	Lat: N 38° 12' 2.70" Lon: W 90° 23' 1.24"	23	Lat: N 38° 13' 11.44" Lon: W 90° 43' 45.43"
4	Lat: N 38° 11' 37.18" Lon: W 90° 22' 42.90"	24	Lat: N 38° 13' 33.29" Lon: W 90° 43' 20.62"
5	Lat: N 38° 11' 10.09" Lon: W 90° 22' 28.64"	25	Lat: N 38° 13' 46.01" Lon: W 90° 43' 2.96"
6	Lat: N 38° 10' 41.83" Lon: W 90° 22' 18.67"	26	Lat: N 38° 10' 42.30" Lon: W 90° 39' 46.73"
7	Lat: N 38° 10' 12.82" Lon: W 90° 22' 13.15"	27	Lat: N 38° 10' 42.30" Lon: W 90° 39' 46.73"
8	Lat: N 38° 9' 43.50" Lon: W 90° 22' 12.14"	28	Lat: N 38° 11' 12.95" Lon: W 90° 38' 54.56"
9	Lat: N 38° 9' 14.30" Lon: W 90° 22' 15.66"	29	Lat: N 38° 11' 38.35" Lon: W 90° 37' 58.03"
10	Lat: N 38° 8' 45.65" Lon: W 90° 22' 23.66"	30	Lat: N 38° 11' 58.11" Lon: W 90° 36' 58.00"
11	Lat: N 38° 8' 17.99" Lon: W 90° 22' 36.03"	31	Lat: N 38° 12' 11.95" Lon: W 90° 35' 55.35"
12	Lat: N 38° 8' 0.92" Lon: W 90° 22' 46.19"	32	Lat: N 38° 12' 19.64" Lon: W 90° 34' 51.02"
13	Lat: N 38° 2' 47.68" Lon: W 90° 26' 11.94"	33	Lat: N 38° 12' 21.09" Lon: W 90° 33' 45.99"
14	Lat: N 38° 3' 54.19" Lon: W 90° 42' 22.65"	34	Lat: N 38° 12' 16.25" Lon: W 90° 32' 41.22"
15	Lat: N 38° 9' 29.52" Lon: W 90° 44' 36.76"	35	Lat: N 38° 12' 5.22" Lon: W 90° 31' 37.68"
16	Lat: N 38° 9' 57.96" Lon: W 90° 44' 45.85"	36	Lat: N 38° 11' 48.15" Lon: W 90° 30' 36.33"
17	Lat: N 38° 10' 27.07" Lon: W 90° 44' 50.48"	37	Lat: N 38° 11' 25.30" Lon: W 90° 29' 38.09"

DME/DME Grid Analysis (Continued.)

Return To Summary

Coverage Exists (Criticals)

Settings:

Polygon Grid Definition:

18	Lat: N 38° 10' 56.40" Lon: W 90° 44' 50.59"	**38**	Lat: N 38° 10' 57.01" Lon: W 90° 28' 43.81"
19	Lat: N 38° 11' 25.53" Lon: W 90° 44' 46.16"	**39**	Lat: N 38° 10' 23.70" Lon: W 90° 27' 54.32"
20	Lat: N 38° 11' 54.01" Lon: W 90° 44' 37.27"	**40**	Lat: N 38° 9' 51.54" Lon: W 90° 27' 16.27"

Lat Step: 1 NM
Lon Step: 1 NM
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Co-Frequencies: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , and User
DME Include Angles: 30 to 150
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Altitude: 10000.0 Ft. MSL
PNA Import from RDVA-Pro: KSTL PNA CHUUC MYERZ

DME/DME Grid Analysis (Continued.)

Return To Summary

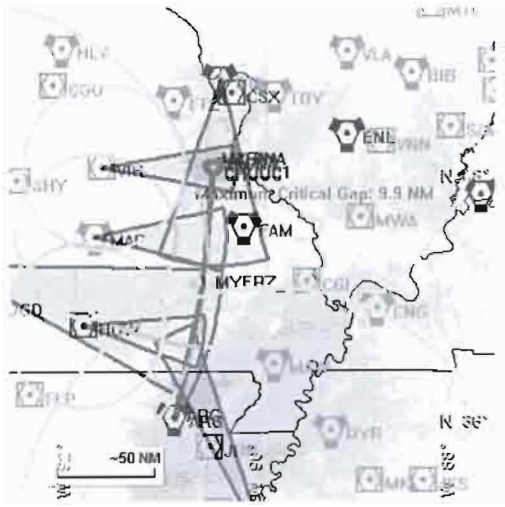
Maximum Gap: 0.0 NM

Maximum Critical Gap: 9.9 NM

	AGL Altitudes
Min Cell Altitude	9,107.6 Ft.
Max Cell Altitude	9,491.5 Ft.
Mean Cell Altitude	9,240.7 Ft.
Std. Dev. Cell Altitude	80.9 Ft.

Statistics based only on passing cells.

Most Used DMEs: STL (172), VIH (172), FAM (170), CSX (113), FTZ (97), and TOY (5).



Name:	enanders
Project Name:	
Output File:	KSTL SID CHUUC ARG 20120717_1226
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/17/2012 12:26:51 PM
Input File:	KSTL_PNA_CHUUC_MYERZ__CCW.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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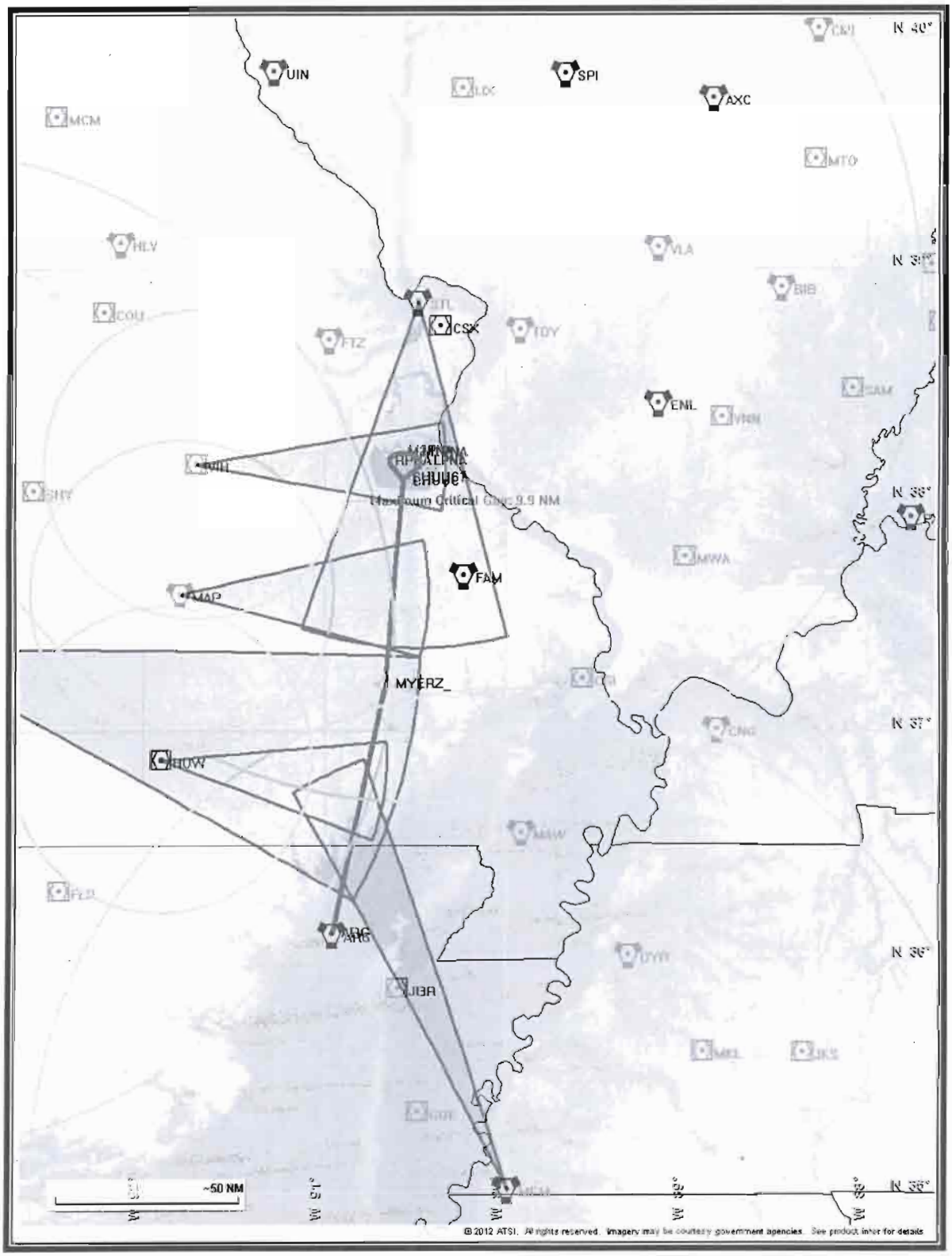
UIN
SPI
AXC
MCM
MTO
HLV
VLA
BIB
COU
FTZ
TDY
CSK
ENL
SAM
VHN
CHUUC
Maximum Critical Gap: 9.9 NM
FAM
MWA
MAP
MYERZ
CNK
HOW
ARG
UBR
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
CHUUC	WP	N 38° 5' 20.86" W 90° 34' 3.58"	10427.5	VNAV	180.0	Fly Over	TF
LPNA	WP	N 38° 9' 51.53" W 90° 27' 16.26"	10427.5	VNAV	180.0	Fly By	TF
M1PNA	WP	N 38° 11' 56.19" W 90° 31' 2.28"	10427.5	VNAV	180.0	Fly By	TF
M2PNA	WP	N 38° 12' 14.78" W 90° 35' 37.08"	10427.5	VNAV	180.0	Fly By	TF
RPNA	WP	N 38° 10' 42.31" W 90° 39' 46.72"	10427.5	VNAV	180.0	Fly By	TF
CHUUC1	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: Departure with PNA
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

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

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 10

Maximum DME Error: 0.739 NM.

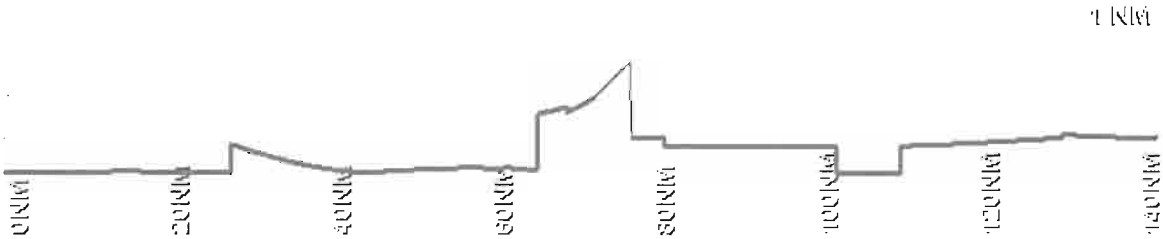
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	1.297	Enabled	50.0 %	46.2 %
2	VIH	N 38° 9' 14.66" W 91° 42' 24.38" E 6	L + ESV	User	NO	0.739	Enabled	23.5 %	19.6 %
3	FAM	N 37° 40' 24.46" W 90° 14' 2.61" E 1	H	Database	NO	0.812	Enabled	36.9 %	38.7 %
4	MAP	N 37° 35' 26.76" W 91° 47' 18.85" E 6	L + ESV	User	NO	0.739	Enabled	12.0 %	12.0 %
5	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.739	Enabled	4.7 %	4.9 %
6	ARG	N 36° 6' 36.07" W 90° 57' 13.30" E 4	H	Database	NO	0.739	Enabled	21.5 %	23.1 %
7	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.739	Enabled	2.6 %	2.6 %
8	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H + ESV	User	NO	1.210	Enabled	29.3 %	31.8 %
9	HUW	N 36° 52' 16.97" W 91° 53' 59.98" E 2	L + ESV	User	NO	0.739	Enabled	5.1 %	5.6 %
10	MEM	N 35° 0' 54.42" W 89° 58' 59.55" E 1	H + ESV	User	NO	0.798	Enabled	7.4 %	8.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VIH	STL	FAM	CSX		
5.1	VIH	STL	FAM	CSX	FTZ	
8.9	VIH	STL	FAM	CSX	FTZ	
12.6	VIH	STL	FAM	CSX	FTZ	
14.8	VIH	STL	FAM	CSX	FTZ	
21.9	VIH	STL	FAM			
32.0	MAP	STL	FAM	CSX	ARG	ENL
64.0	MAP	STL	FAM	ENL	ARG	CSX
75.8	SGF	STL	FAM	CSX	ARG	
85.9	SGF	MEM	FAM	HUW	ARG	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 37° 15' 17.11" W 90° 39' 29.23"	N 37° 10' 43.57" W 90° 40' 8.88"	4.6
	VOR: FAM	Available from N 37° 15' 17.11" W 90° 39' 29.23" to N 37° 10' 43.57" W 90° 40' 8.88"	
2	N 36° 7' 5.25" W 90° 57' 5.66"	N 36° 6' 39.78" W 90° 57' 12.33"	0.4
	VOR: ARG	Available from N 36° 7' 5.25" W 90° 57' 5.66" to N 36° 6' 39.78" W 90° 57' 12.33"	
	VOR: JBR	Available from N 36° 7' 5.25" W 90° 57' 5.66" to N 36° 6' 39.78" W 90° 57' 12.33"	

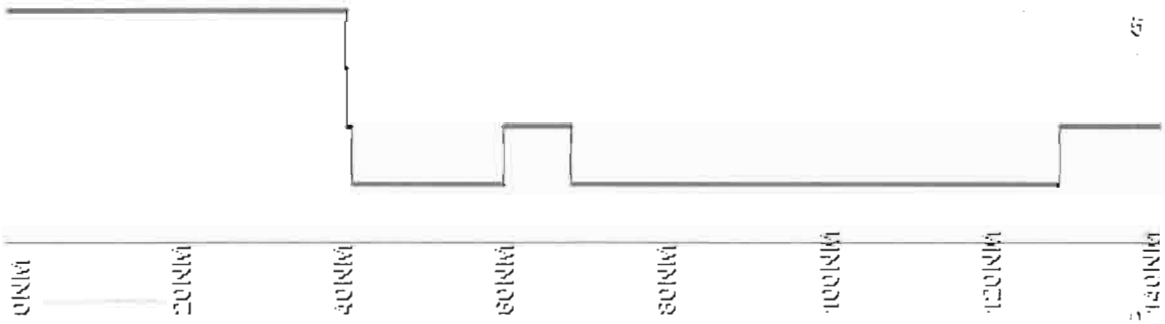
User DMEs

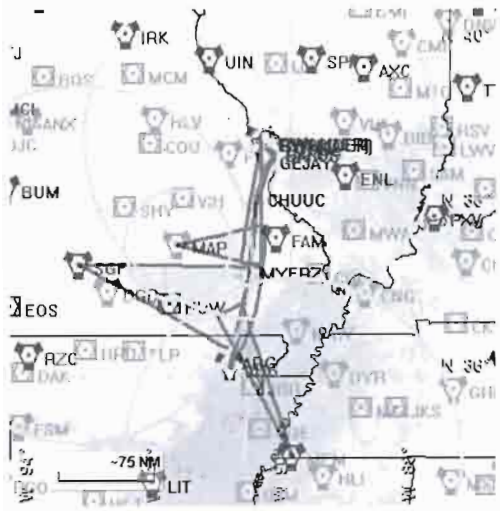
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 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]: 165.0° to 200.0° Bearing [Mag]: 164.0° to 199.0°			Arc Distance: Out to 90.0 NM Altitude: 9000.0 to 16000.0 Ft.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98" E 2	L	1220.0	111.6	[None]	Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		
6	VIH	N 38° 9' 14.66" W 91° 42' 24.38" E 6	L	1105.0	117.70	VIH	Used
		ESV: Bearing [True]: 80.0° to 100.0° Bearing [Mag]: 74.0° to 94.0°			Arc Distance: Out to 65.0 NM Altitude: 9000.0 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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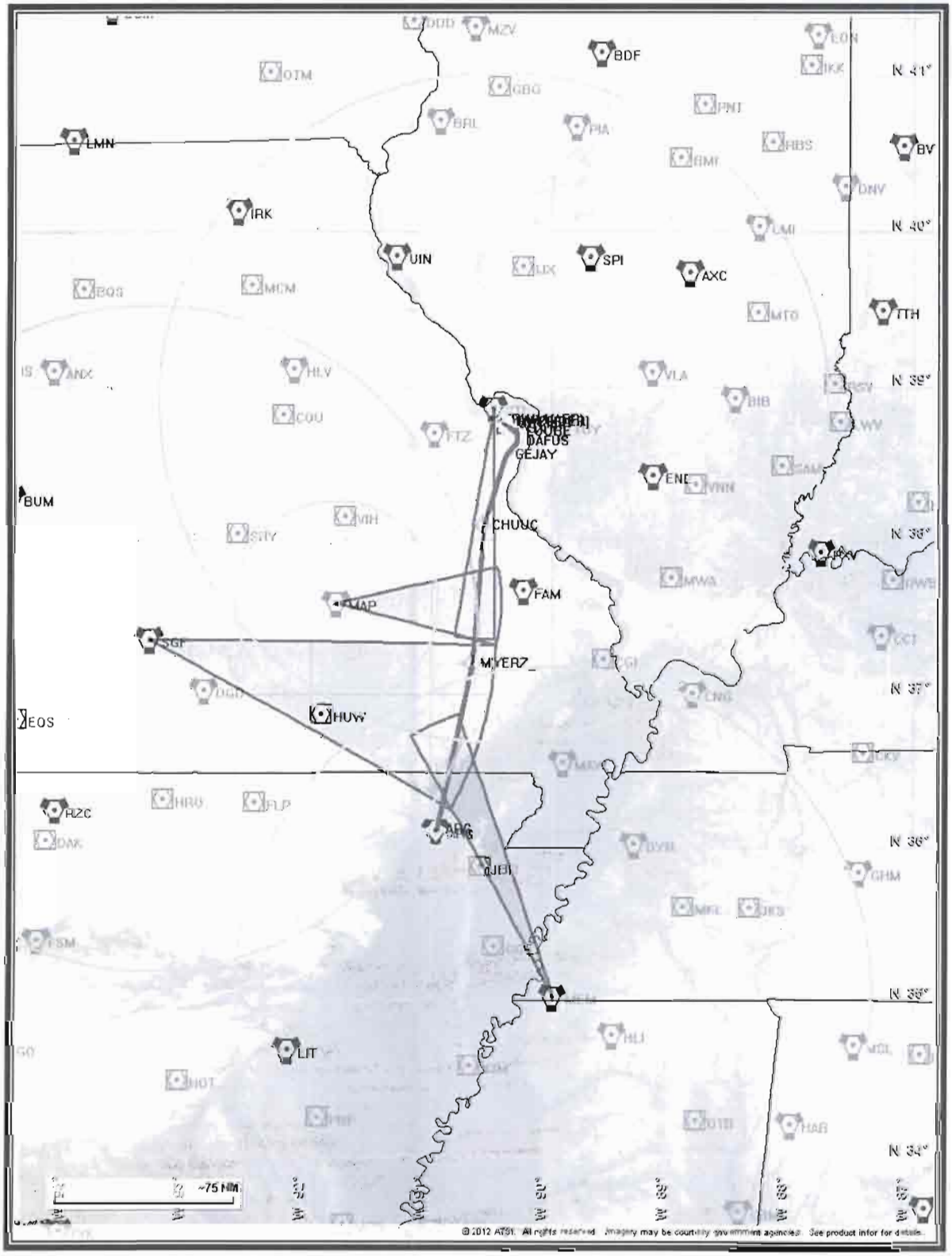
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LMN
IRK
UIN
SPI
AXC
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BUM
DAFUS
GEJAY
CHUUC
FAM
MYERZ
HUW
EOS
ARG
LIT
N 41°
N 40°
N 39°
N 38°
N 37°
N 36°
N 35°
N 34°
~75 NM

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	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:

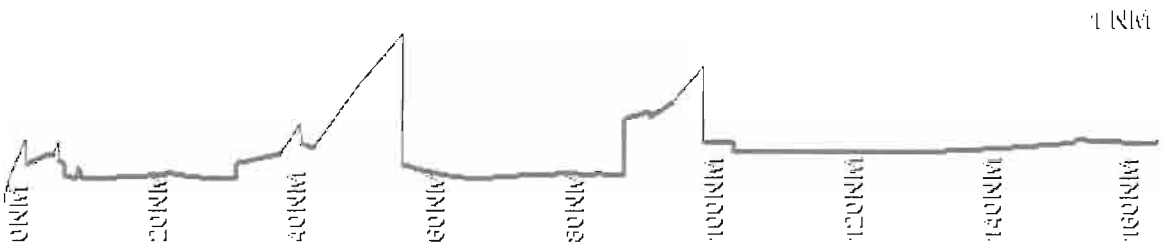
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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 36° 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"	

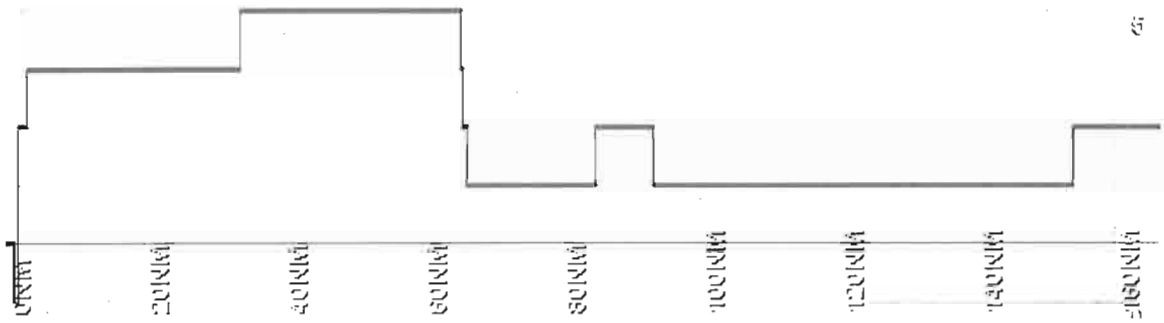
User DMEs

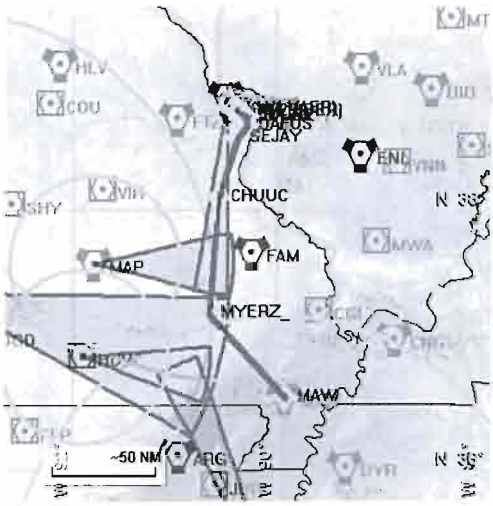
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54" E 4	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 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

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





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Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/5/2012 3:10:35 PM
Input File:	CHUUC RW11 MAW 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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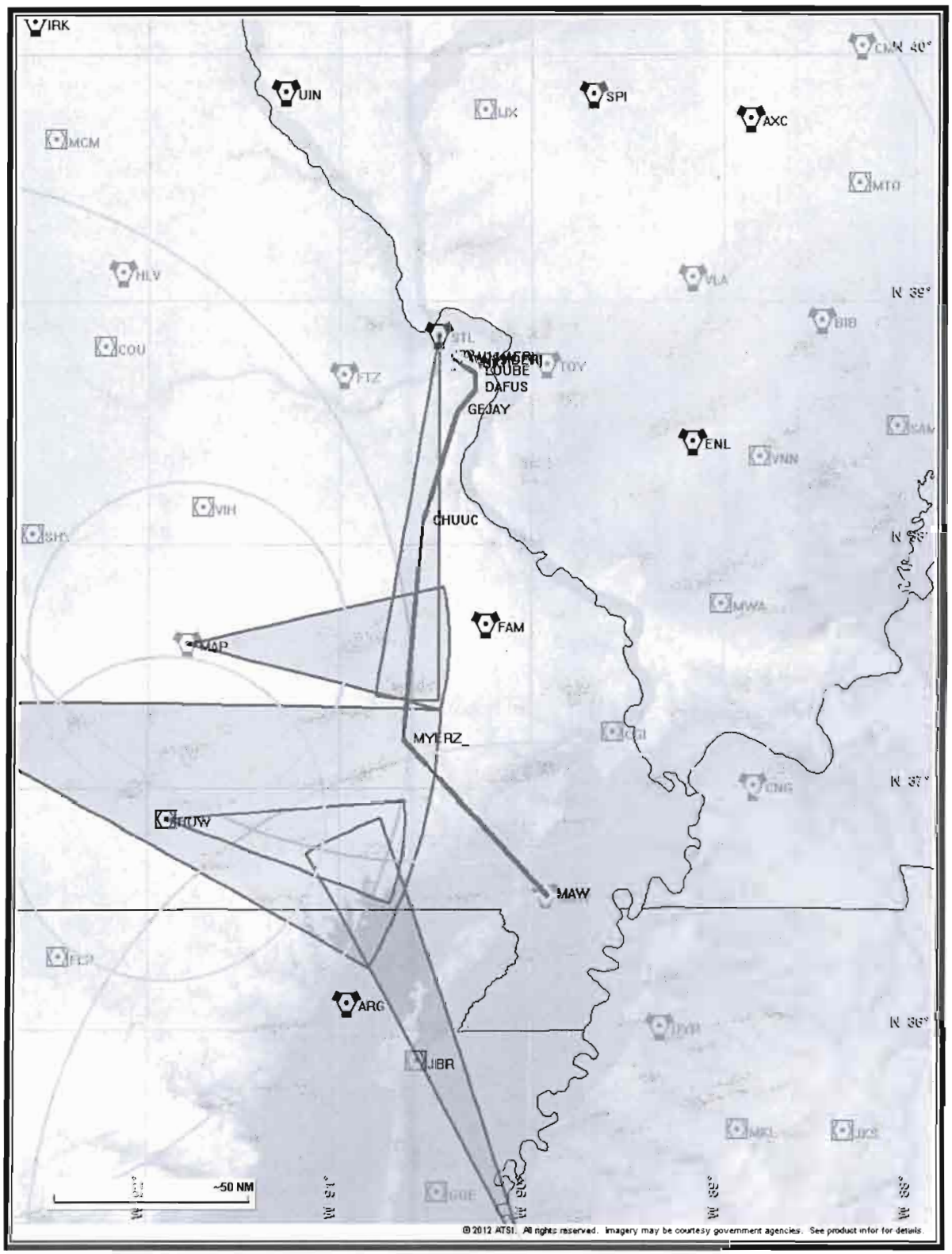
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UIN
SPI
AXC
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HLV
VLA
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DAFUS
GEJAY
ENL
VIH
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FAM
MYERZ_
MAW
ARG
JBR
N 39°
N 38°
N 37°
N 36°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
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
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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 -2.94 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: 1839 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.912 NM.

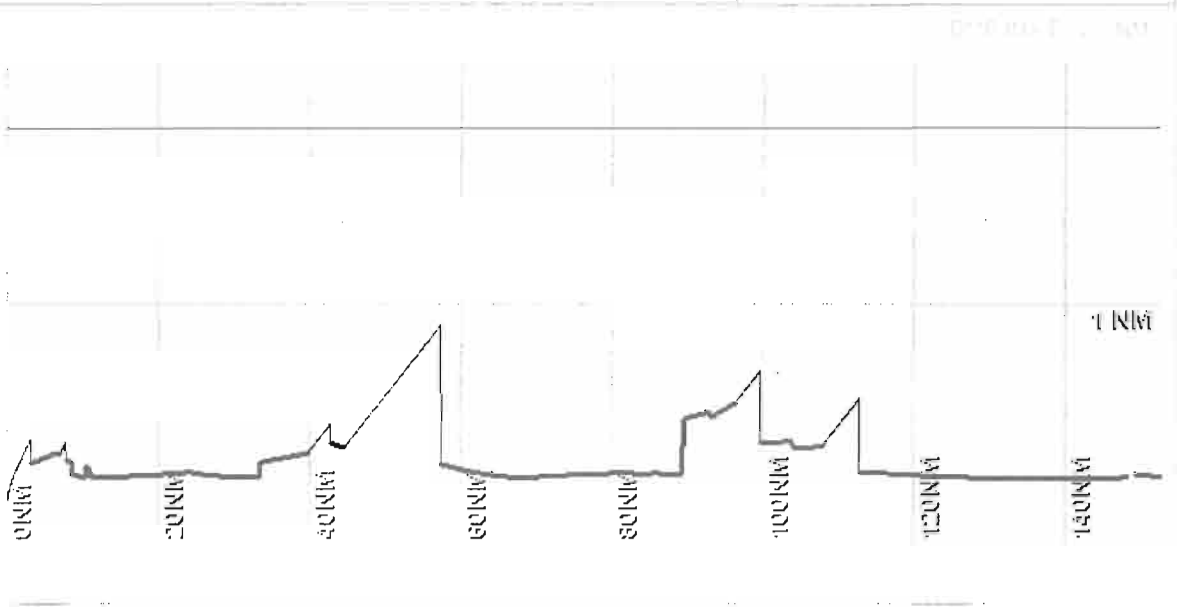
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.705	Enabled	27.2 %	26.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.912	Enabled	19.6 %	18.5 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.213	Enabled	18.0 %	17.4 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.912	Enabled	11.8 %	11.1 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.367	Enabled	14.3 %	15.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.912	Enabled	10.6 %	11.3 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	1.326	Enabled	29.3 %	31.2 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.912	Enabled	2.3 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.244	Enabled	5.0 %	5.4 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	Database	NO	1.174	Enabled	22.4 %	23.8 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.912	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	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
87.4	STL	ARG	ENL	MAP	FAM	CSX
98.9	STL	ARG	SGF	CSX	FAM	
109.0	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' 58.09" 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' 58.09" W 90° 21' 17.23"	
	VOR: FTZ	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	
	VOR: STL	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	
	VOR: TOY	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	
2	N 38° 41' 30.98" W 90° 17' 34.72"	N 38° 40' 44.93" W 90° 17' 34.71"	0.8
	VOR: CSX	Available from N 38° 41' 30.98" W 90° 17' 34.72" to N 38° 40' 44.93" W 90° 17' 34.71"	
	VOR: FTZ	Available from N 38° 41' 30.98" W 90° 17' 34.72" to N 38° 40' 44.93" W 90° 17' 34.71"	
	VOR: STL	Available from N 38° 41' 30.98" W 90° 17' 34.72" to N 38° 40' 44.93" W 90° 17' 34.71"	
	VOR: TOY	Available from N 38° 41' 30.98" W 90° 17' 34.72" to N 38° 40' 44.93" W 90° 17' 34.71"	
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' 2.15" W 90° 35' 18.15"	12.7
	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' 2.15" W 90° 35' 18.15"	
	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"	
5	N 37° 15' 17.95" W 90° 39' 29.14"	N 37° 11' 58.72" W 90° 39' 42.07"	3.3
	VOR: FAM	Available from N 37° 15' 17.95" W 90° 39' 29.14" to N 37° 11' 58.72" W 90° 39' 42.07"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
6	N 37° 5' 55.09" W 90° 32' 46.63"	N 37° 2' 24.05" W 90° 28' 37.75"	4.8
	VOR: FAM	Available from N 37° 5' 55.09" W 90° 32' 46.63" to N 37° 2' 24.05" W 90° 28' 37.75"	
	VOR: MAW	Available from N 37° 2' 28.90" W 90° 28' 43.46" to N 37° 2' 24.05" W 90° 28' 37.75"	

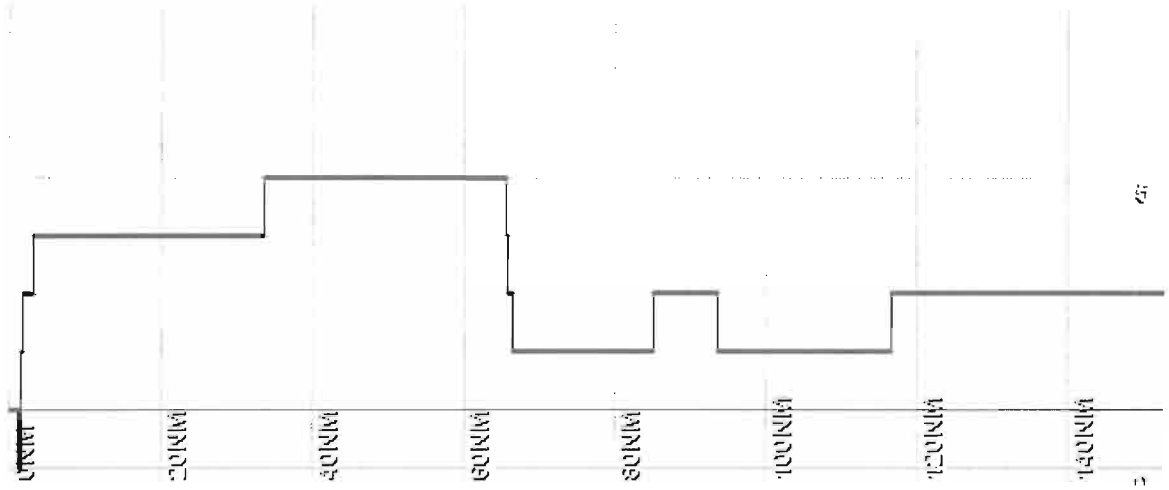
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	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"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Not Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/5/2012 2:30:31 PM
Input File:	CHUUC RW12L ARG 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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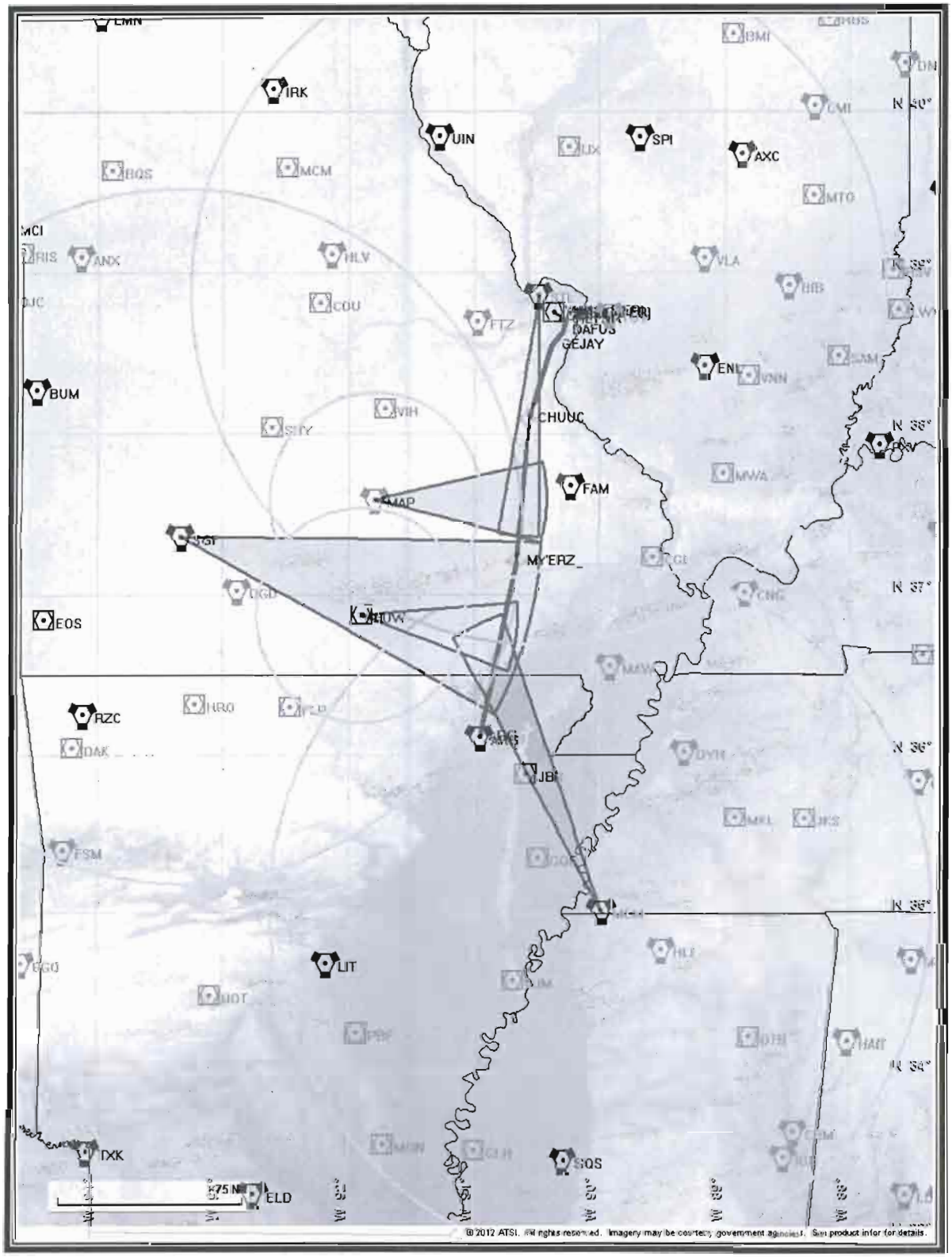
IRK
UIN
SPI
AXC
MCM
MTO
HLV
VLA
COU
FTZ
DAFUS
GEJAY
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FAM
MAP
MYERZ
EOS
RZC
JBR
LIT
SGS
TXK
ELD
N 40°
N 39°
N 38°
N 37°
N 36°
N 35°
N 34°

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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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 -64.22 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: 2122 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.907 NM.

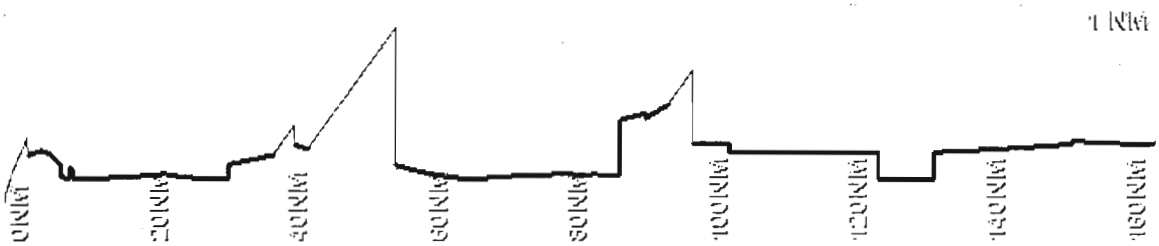
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.703	Enabled	25.0 %	24.4 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.907	Enabled	18.2 %	17.1 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.208	Enabled	17.6 %	16.9 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.907	Enabled	10.7 %	9.8 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.367	Enabled	29.3 %	31.1 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.907	Enabled	9.8 %	10.4 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	0.907	Enabled	18.8 %	20.0 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.907	Enabled	2.1 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.385	Enabled	26.6 %	28.3 %
10	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L + ESV	User	NO	0.907	Enabled	4.5 %	4.8 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.909	Enabled	6.6 %	7.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.5	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	MAP	CSX	ARG	FAM	ENL
88.1	STL	MAP	ENL	ARG	FAM	CSX
98.2	STL	CSX	SGF	ARG	FAM	
108.3	MEM	HUW	SGF	ARG	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' 19.48" W 90° 18' 29.92"	3.3
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
2	N 38° 11' 19.29" W 90° 31' 42.79"	N 38° 8' 27.19" W 90° 32' 50.45"	3.0
	VOR: CSX	Available from N 38° 11' 19.29" W 90° 31' 42.79" to N 38° 8' 27.19" W 90° 32' 50.45"	
	VOR: FAM	Available from N 38° 11' 19.29" W 90° 31' 42.79" to N 38° 8' 27.19" W 90° 32' 50.45"	
	VOR: FTZ	Available from N 38° 11' 19.29" W 90° 31' 42.79" to N 38° 8' 27.19" W 90° 32' 50.45"	
3	N 38° 6' 38.83" W 90° 33' 33.00"	N 37° 54' 7.36" W 90° 35' 17.58"	12.6
	VOR: CSX	Available from N 38° 6' 38.83" W 90° 33' 33.00" to N 38° 6' 16.52" W 90° 33' 41.76"	
	VOR: FAM	Available from N 38° 6' 38.83" W 90° 33' 33.00" to N 37° 54' 7.36" W 90° 35' 17.58"	
4	N 37° 15' 19.91" W 90° 39' 28.93"	N 37° 11' 50.50" W 90° 39' 52.33"	3.5
	VOR: FAM	Available from N 37° 15' 19.91" W 90° 39' 28.93" to N 37° 11' 50.50" W 90° 39' 52.33"	
5	N 36° 7' 6.70" W 90° 57' 5.28"	N 36° 6' 37.31" W 90° 57' 12.98"	0.5
	VOR: ARG	Available from N 36° 7' 6.70" W 90° 57' 5.28" to N 36° 6' 37.31" W 90° 57' 12.98"	
	VOR: JBR	Available from N 36° 7' 6.70" W 90° 57' 5.28" to N 36° 6' 37.31" W 90° 57' 12.98"	

DME/DME (Continued.)

Return To Summary

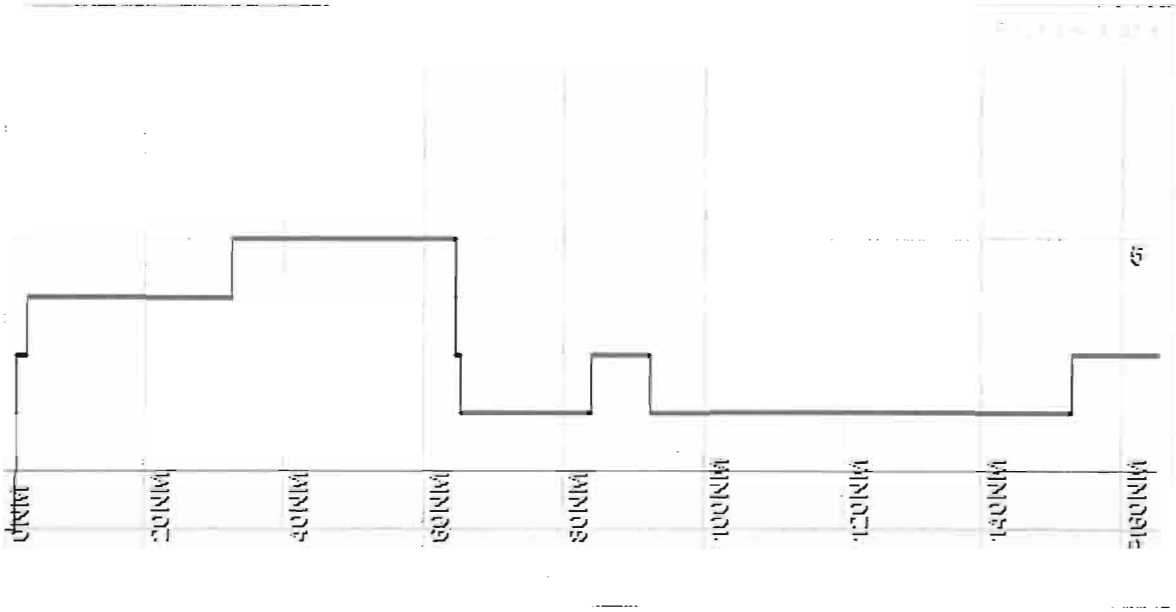
User DMEs

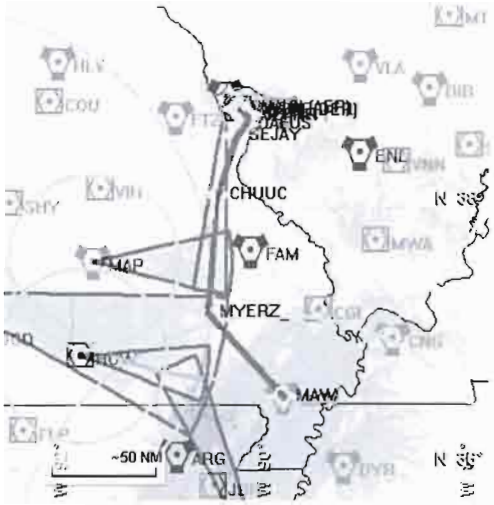
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/5/2012 3:25:53 PM
Input File:	CHUUC RW12L MAW 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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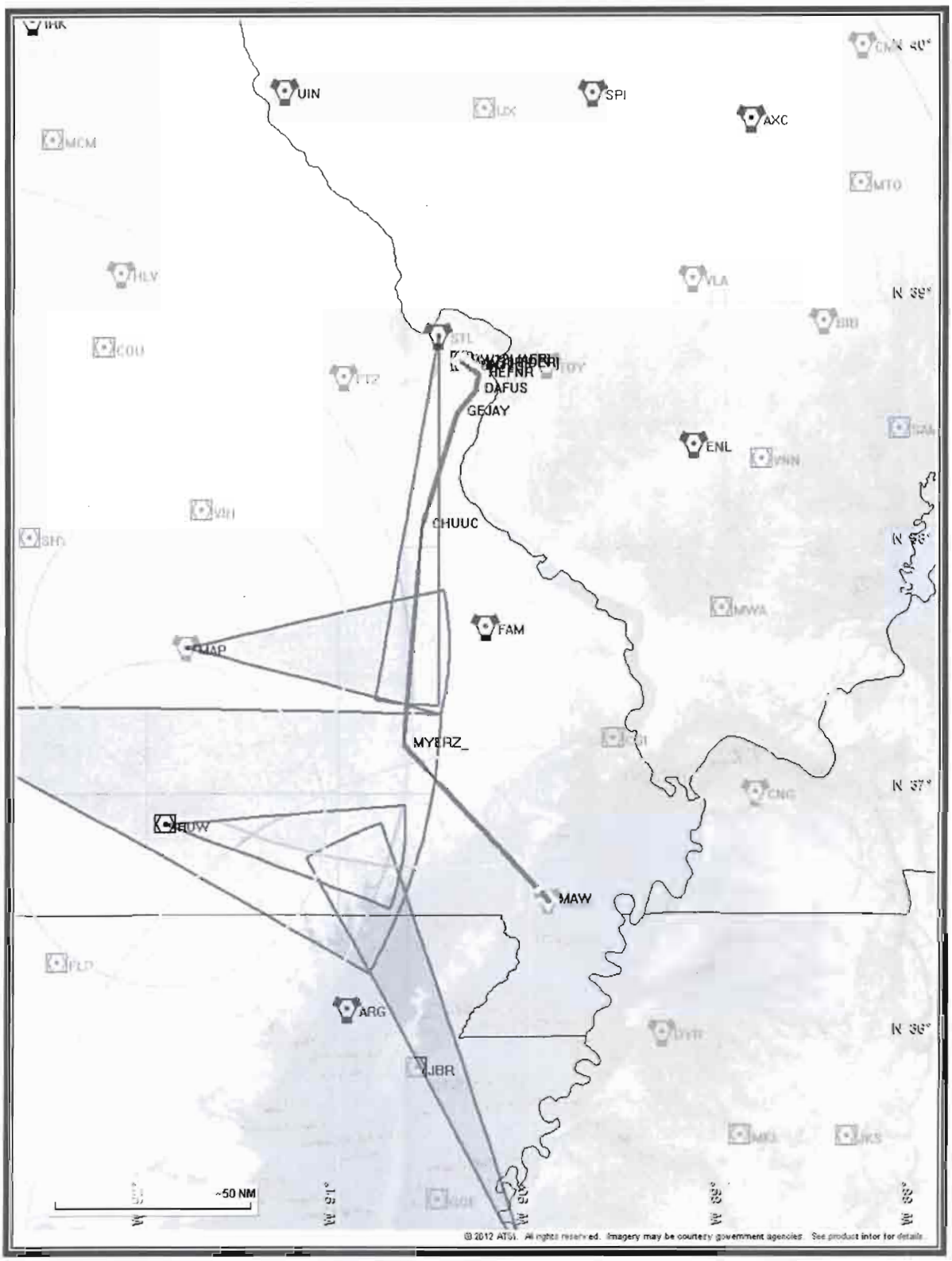
UIN
SPI
AXC
MCM
MTO
HLV
VLA
N 39°
COU
STL
DAFUS
GEJAY
ENL
CHUUC
FAM
MAW
ARG
JBR
N 37°
N 36°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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 -64.22 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: 2122 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.907 NM.

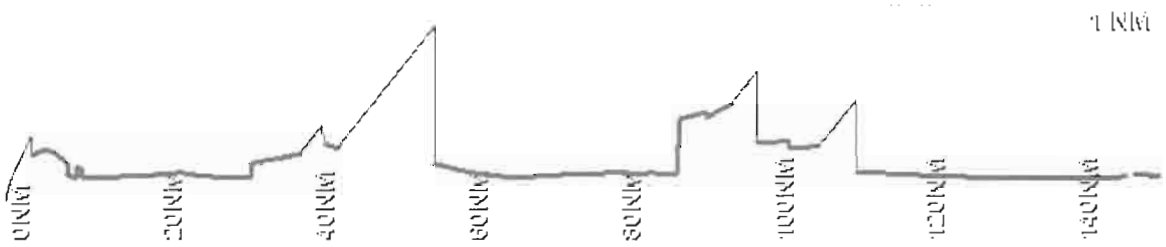
No Critical DMEs were found

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.703	Enabled	27.1 %	26.7 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.907	Enabled	19.8 %	18.7 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.208	Enabled	18.4 %	17.7 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.907	Enabled	11.7 %	10.7 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.367	Enabled	14.4 %	15.4 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.907	Enabled	10.6 %	11.3 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	1.326	Enabled	29.5 %	31.4 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.907	Enabled	2.3 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.245	Enabled	5.0 %	5.4 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	Database	NO	1.176	Enabled	22.5 %	24.0 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.907	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.5	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
86.2	STL	ARG	ENL	MAP	FAM	CSX
97.7	STL	ARG	SGF	CSX	FAM	
107.8	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' 19.48" W 90° 18' 29.92"	3.3
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
2	N 38° 11' 19.29" W 90° 31' 42.79"	N 38° 8' 27.19" W 90° 32' 50.45"	3.0
	VOR: CSX	Available from N 38° 11' 19.29" W 90° 31' 42.79" to N 38° 8' 27.19" W 90° 32' 50.45"	
	VOR: FAM	Available from N 38° 11' 19.29" W 90° 31' 42.79" to N 38° 8' 27.19" W 90° 32' 50.45"	
	VOR: FTZ	Available from N 38° 11' 19.29" W 90° 31' 42.79" to N 38° 8' 27.19" W 90° 32' 50.45"	
3	N 38° 6' 38.83" W 90° 33' 33.00"	N 37° 54' 7.36" W 90° 35' 17.58"	12.6
	VOR: CSX	Available from N 38° 6' 38.83" W 90° 33' 33.00" to N 38° 6' 16.52" W 90° 33' 41.76"	
	VOR: FAM	Available from N 38° 6' 38.83" W 90° 33' 33.00" to N 37° 54' 7.36" W 90° 35' 17.58"	
4	N 37° 15' 19.91" W 90° 39' 28.93"	N 37° 11' 57.42" W 90° 39' 41.55"	3.4
	VOR: FAM	Available from N 37° 15' 19.91" W 90° 39' 28.93" to N 37° 11' 57.42" W 90° 39' 41.55"	
5	N 37° 5' 56.52" W 90° 32' 48.35"	N 37° 2' 23.06" W 90° 28' 36.60"	4.9
	VOR: FAM	Available from N 37° 5' 56.52" W 90° 32' 48.35" to N 37° 2' 23.06" W 90° 28' 36.60"	
	VOR: MAW	Available from N 37° 2' 30.34" W 90° 28' 45.17" to N 37° 2' 23.06" W 90° 28' 36.60"	

DME/DME (Continued.)

Return To Summary

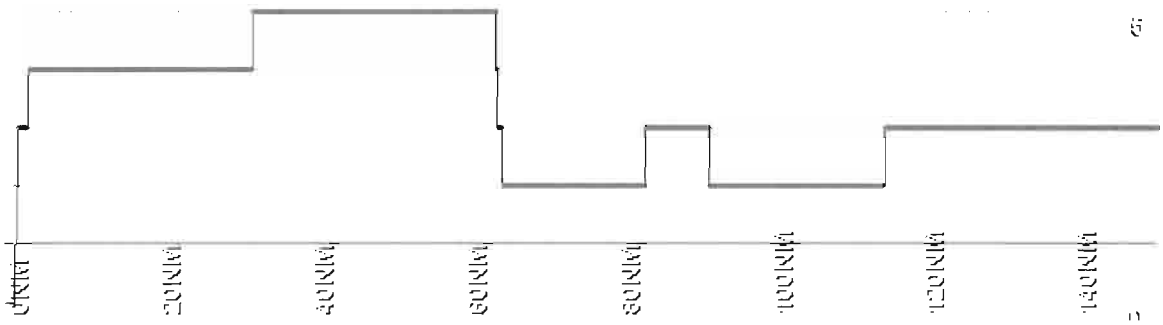
User DMEs

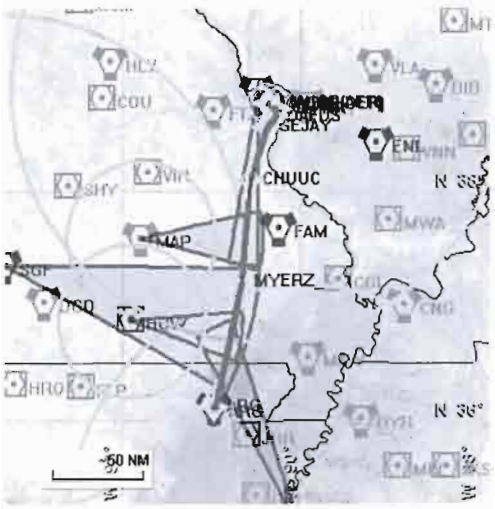
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Not Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 7:52:10 AM
Input File:	CHUUC RW12R ARG 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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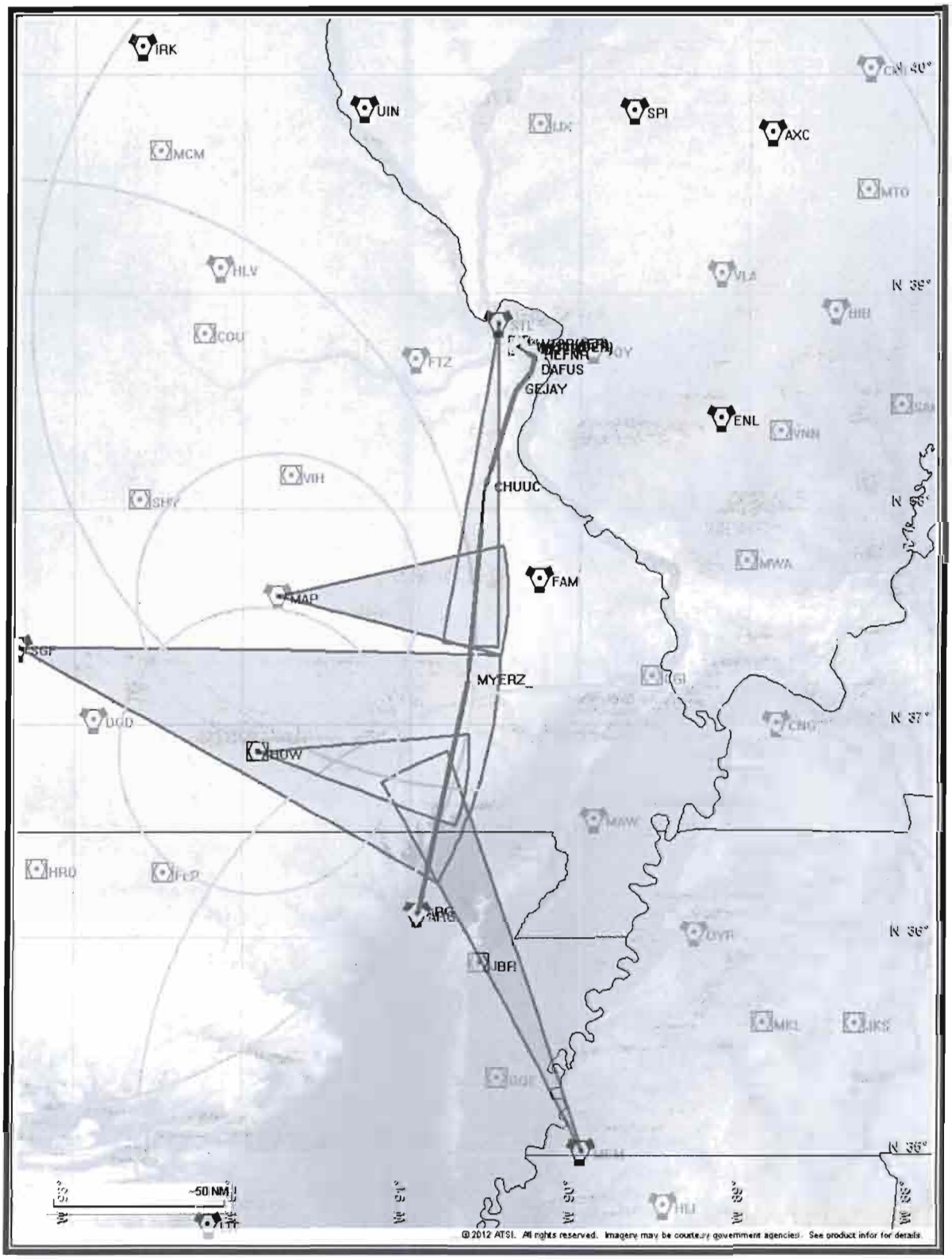
IRK
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SPI
AXC
MCM
MTO
HLV
VLA
COU
FIZ
DAFUS
GEJAY
ENL
VIH
CHUUC
FAM
MAP
SGF
MYERZ_
BOW
HRO
JBR
HLI
N 38°
N 37°
N 36°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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: 2017 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.910 NM.

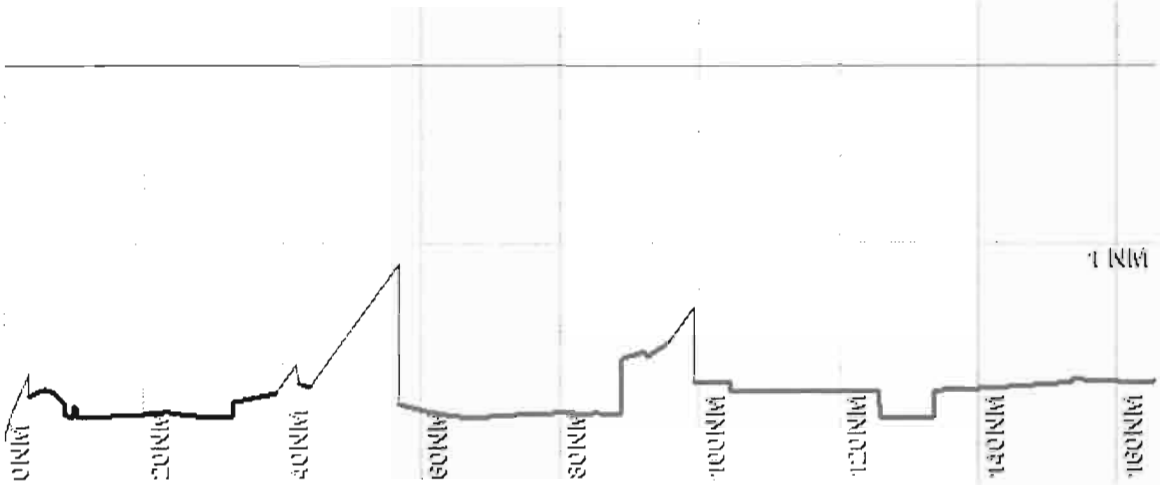
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.705	Enabled	25.0 %	24.5 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.910	Enabled	18.4 %	17.3 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.210	Enabled	17.5 %	16.9 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.910	Enabled	10.6 %	9.8 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.367	Enabled	29.2 %	31.0 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.910	Enabled	9.8 %	10.4 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	0.910	Enabled	18.8 %	19.9 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.910	Enabled	2.1 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.386	Enabled	26.5 %	28.2 %
10	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L + ESV	User	NO	0.910	Enabled	4.5 %	4.7 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.911	Enabled	6.6 %	7.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.8	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	MAP	CSX	ARG	FAM	ENL
86.9	STL	MAP	ENL	ARG	FAM	CSX
98.7	STL	CSX	SGF	ARG	FAM	
108.8	MEM	HUW	SGF	ARG	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' 21.04" W 90° 18' 55.84"	3.5
	VOR: CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
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' 6.11" W 90° 35' 17.72"	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' 6.11" W 90° 35' 17.72"	
	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' 18.67" W 90° 39' 29.06"	N 37° 11' 49.27" W 90° 39' 52.59"	3.5
	VOR: FAM	Available from N 37° 15' 18.67" W 90° 39' 29.06" to N 37° 11' 49.27" W 90° 39' 52.59"	
5	N 36° 7' 5.48" W 90° 57' 5.60"	N 36° 6' 36.09" W 90° 57' 13.30"	0.5
	VOR: ARG	Available from N 36° 7' 5.48" W 90° 57' 5.60" to N 36° 6' 36.09" W 90° 57' 13.30"	
	VOR: JBR	Available from N 36° 7' 5.48" W 90° 57' 5.60" to N 36° 6' 36.09" W 90° 57' 13.30"	

DME/DME (Continued.)

Return To Summary

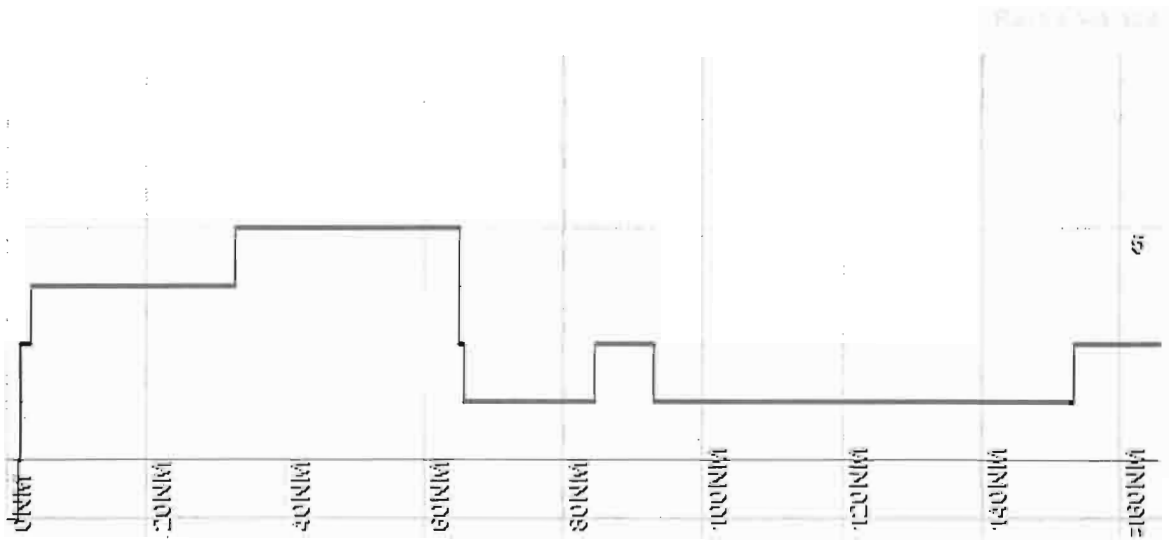
User DMEs

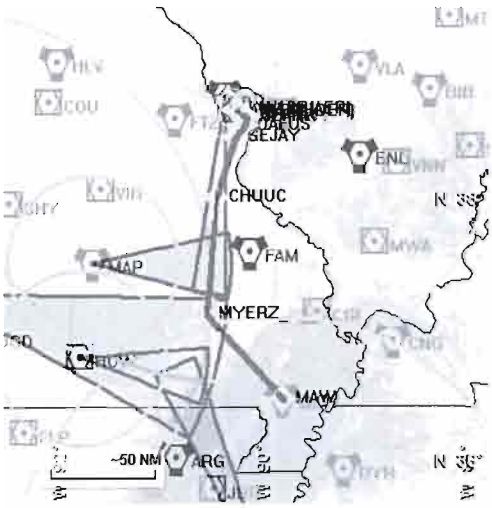
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 8:08:28 AM
Input File:	CHUUC RW12R MAW 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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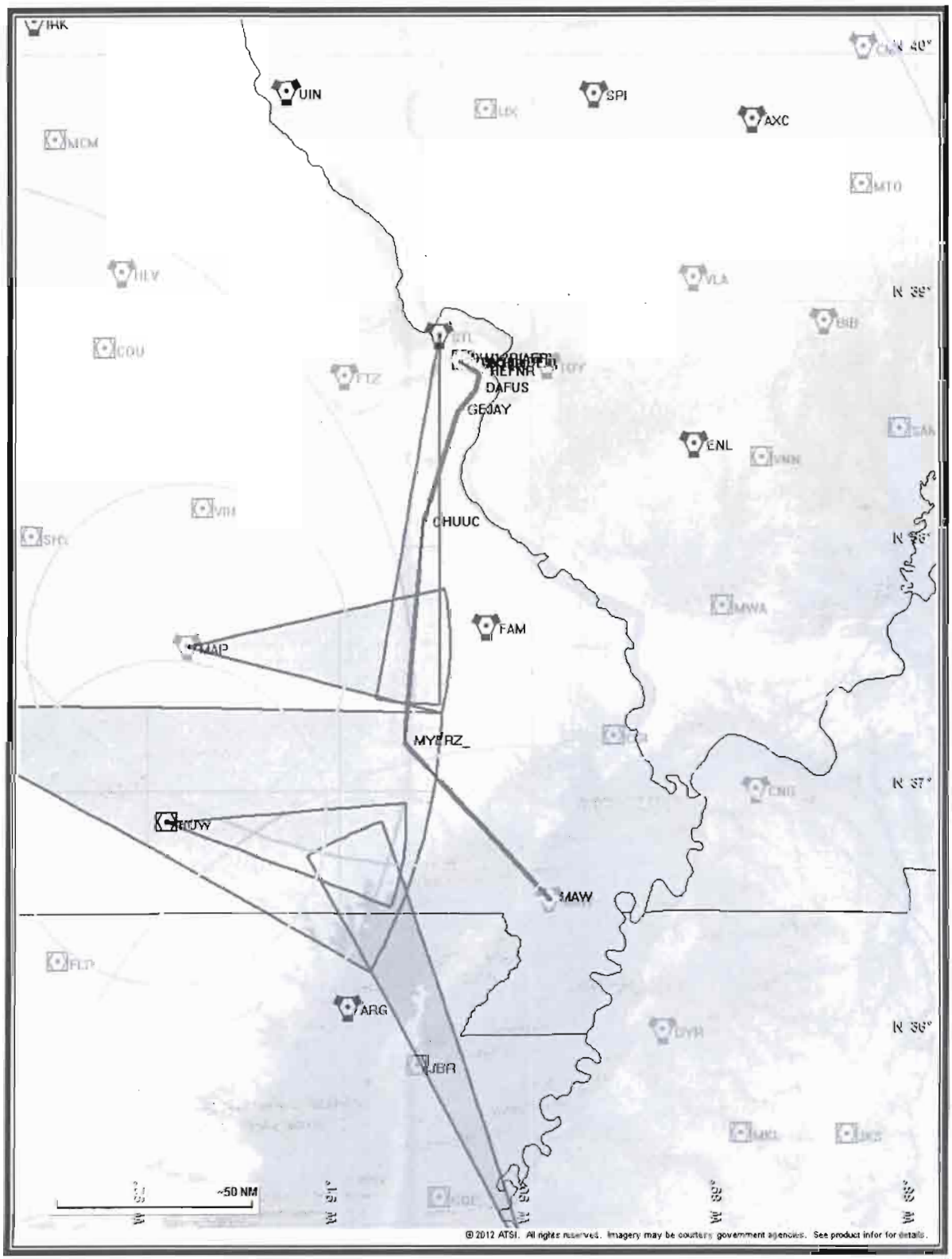
UIN
SPI
AXC
MOM
MTO
ILV
VLA
COU
DAFUS
GEJAY
ENL
CHUUC
FAM
MAP
MYERZ_
MAW
ARG
JBR
N 38°
N 37°
N 36°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
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
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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: 2017 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.910 NM.

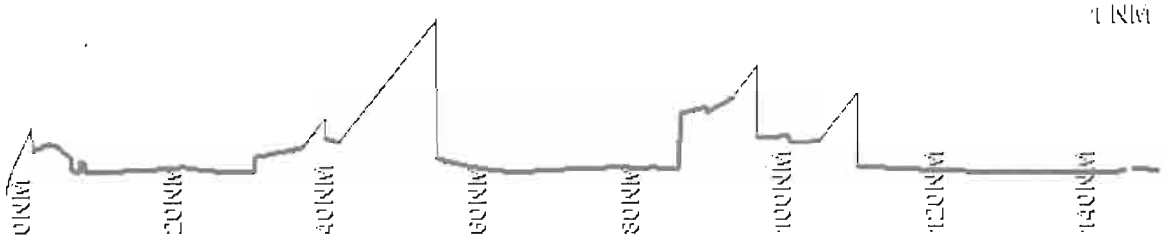
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.705	Enabled	27.2 %	26.8 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.910	Enabled	20.0 %	18.9 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.210	Enabled	18.3 %	17.6 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.910	Enabled	11.6 %	10.7 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.367	Enabled	14.4 %	15.4 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.910	Enabled	10.6 %	11.3 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	1.326	Enabled	29.4 %	31.4 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.910	Enabled	2.2 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.246	Enabled	5.0 %	5.4 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	Database	NO	1.177	Enabled	22.4 %	23.9 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.910	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.8	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
86.7	STL	ARG	ENL	MAP	FAM	CSX
98.2	STL	ARG	SGF	CSX	FAM	
108.3	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' 21.04" W 90° 18' 55.84"	3.5
	VOR: CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
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' 6.11" W 90° 35' 17.72"	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' 6.11" W 90° 35' 17.72"	
	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' 18.67" W 90° 39' 29.06"	N 37° 11' 59.41" W 90° 39' 42.35"	3.3
	VOR: FAM	Available from N 37° 15' 18.67" W 90° 39' 29.06" to N 37° 11' 59.41" W 90° 39' 42.35"	
5	N 37° 5' 55.61" W 90° 32' 47.27"	N 37° 2' 22.15" W 90° 28' 35.53"	4.9
	VOR: FAM	Available from N 37° 5' 55.61" W 90° 32' 47.27" to N 37° 2' 22.15" W 90° 28' 35.53"	
	VOR: MAW	Available from N 37° 2' 29.43" W 90° 28' 44.10" to N 37° 2' 22.15" W 90° 28' 35.53"	

DME/DME (Continued.)

Return To Summary

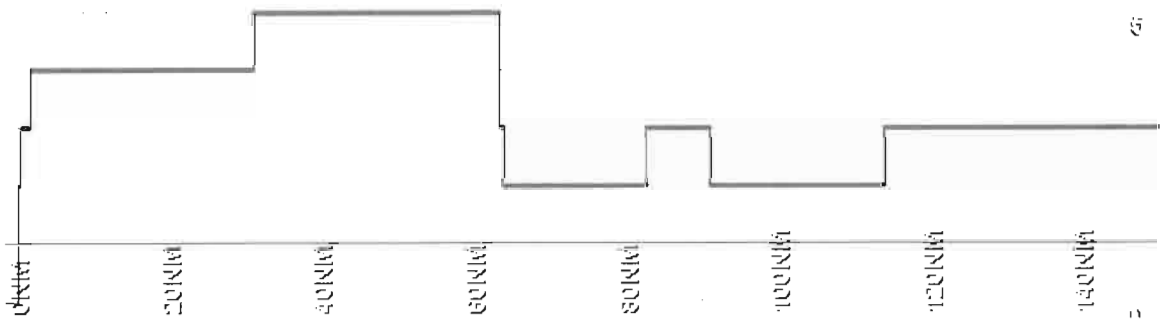
User DMEs

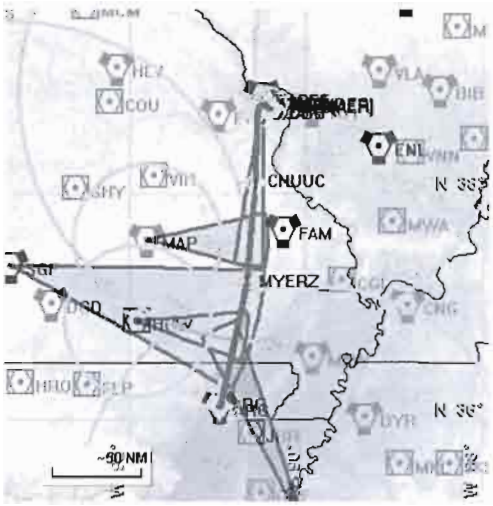
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Not Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 8:24:48 AM
Input File:	CHUUC RW29 ARG 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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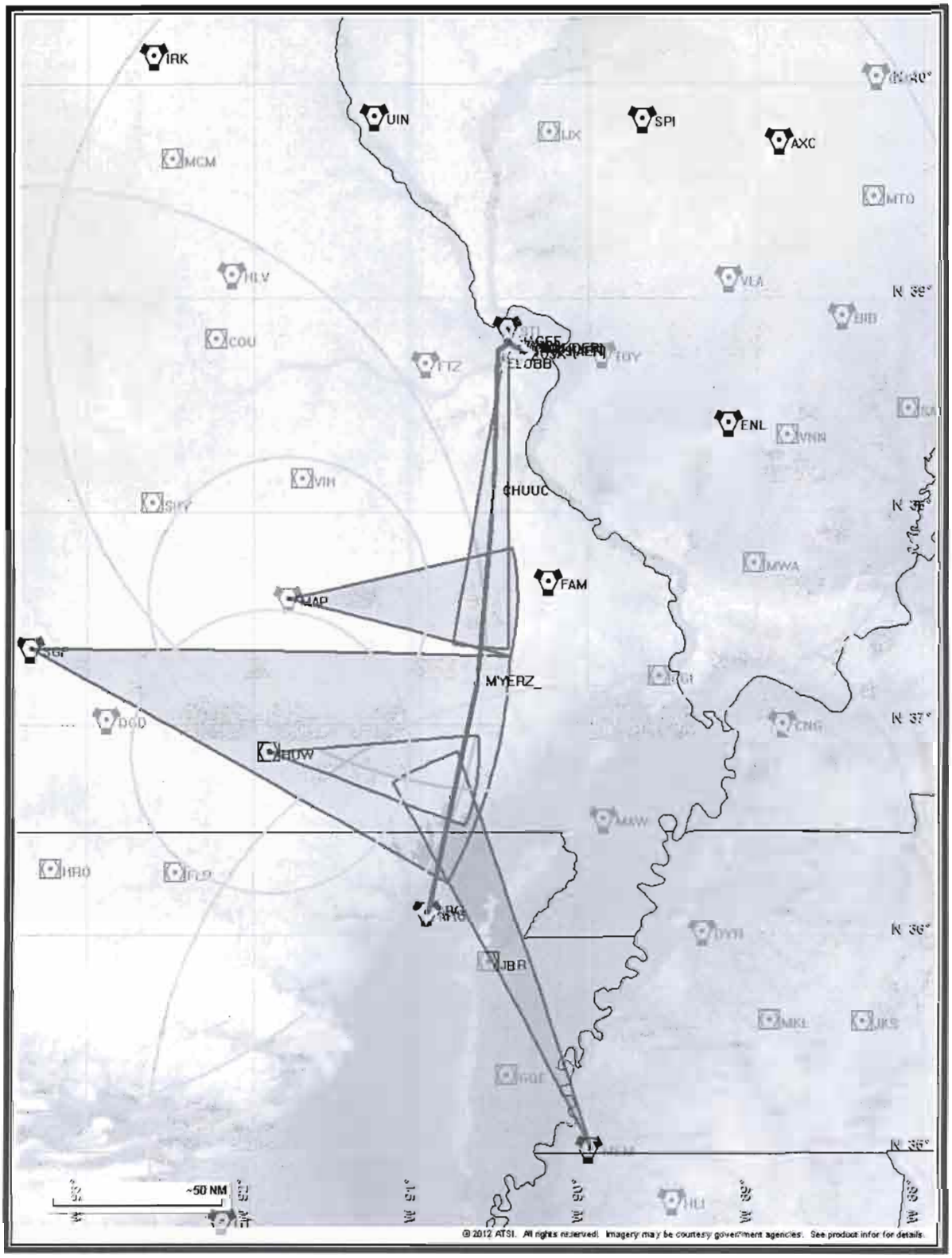
IRK
UIN
SPI
AXC
MCM
MTO
HLV
VLA
COU
ENL
VIH
CHUUC
FAM
MWA
M'YERZ_
JBR
~50 NM
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Flight Plan

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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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.

Flight Track comes into contact with terrain. Minimum AGL along route was -47.99 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: 1661 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.725 NM.

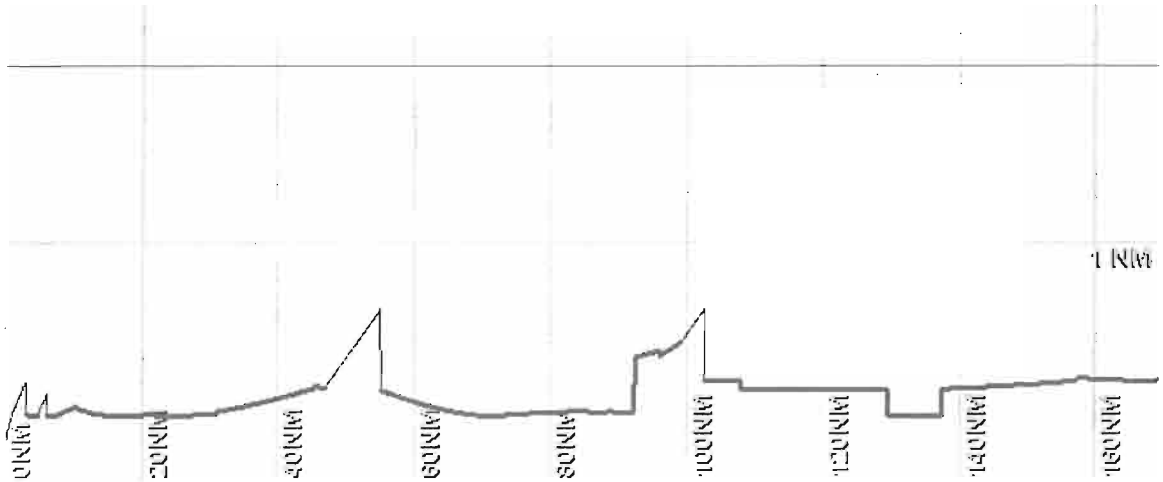
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.614	Enabled	33.3 %	32.0 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.837	Enabled	22.1 %	21.7 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.969	Enabled	21.9 %	21.6 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.725	Enabled	1.0 %	1.0 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.279	Enabled	31.4 %	33.3 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.725	Enabled	9.6 %	10.1 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	0.725	Enabled	18.4 %	19.5 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.725	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.385	Enabled	26.1 %	27.6 %
10	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L + ESV	User	NO	0.725	Enabled	4.4 %	4.7 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.909	Enabled	6.4 %	6.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	STL	FTZ	CSX			
4.9	STL	FTZ	CSX			
8.4	STL	FTZ	CSX			
13.0	STL	FTZ	CSX	TOY	FAM	
48.8	STL	MAP	CSX	ARG	FAM	ENL
92.2	STL	MAP	ENL	ARG	FAM	CSX
102.3	STL	CSX	SGF	ARG	FAM	
112.4	MEM	HUW	SGF	ARG	FAM	

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' 19.70" W 90° 26' 4.80"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
2	N 38° 47' 16.83" W 90° 28' 2.05"	N 38° 47' 7.82" W 90° 29' 34.95"	1.4
	VOR: CSX	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: FTZ	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: STL	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: TOY	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
3	N 38° 7' 22.42" W 90° 33' 59.47"	N 37° 59' 16.58" W 90° 34' 42.89"	8.1
	VOR: CSX	Available from N 38° 7' 22.42" W 90° 33' 59.47" to N 38° 6' 22.37" W 90° 34' 1.50"	
	VOR: FAM	Available from N 38° 7' 22.42" W 90° 33' 59.47" to N 37° 59' 16.58" W 90° 34' 42.89"	
	VOR: FTZ	Available from N 38° 7' 22.42" W 90° 33' 59.47" to N 38° 6' 29.04" W 90° 34' 1.28"	
4	N 37° 15' 20.01" W 90° 39' 28.92"	N 37° 11' 53.89" W 90° 39' 51.66"	3.4
	VOR: FAM	Available from N 37° 15' 20.01" W 90° 39' 28.92" to N 37° 11' 53.89" W 90° 39' 51.66"	
5	N 36° 7' 6.79" W 90° 57' 5.25"	N 36° 6' 37.41" W 90° 57' 12.95"	0.5
	VOR: ARG	Available from N 36° 7' 6.79" W 90° 57' 5.25" to N 36° 6' 37.41" W 90° 57' 12.95"	
	VOR: JBR	Available from N 36° 7' 6.79" W 90° 57' 5.25" to N 36° 6' 37.41" W 90° 57' 12.95"	

DME/DME (Continued.)

Return To Summary

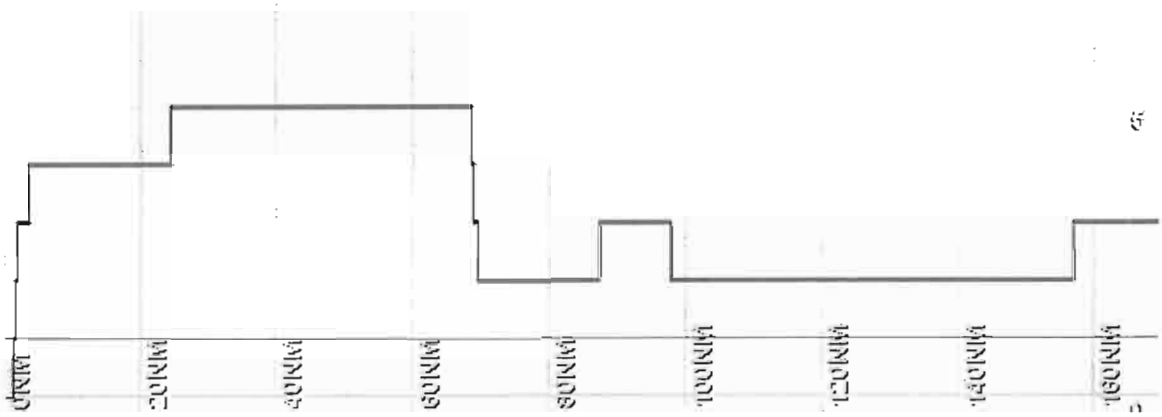
User DMEs

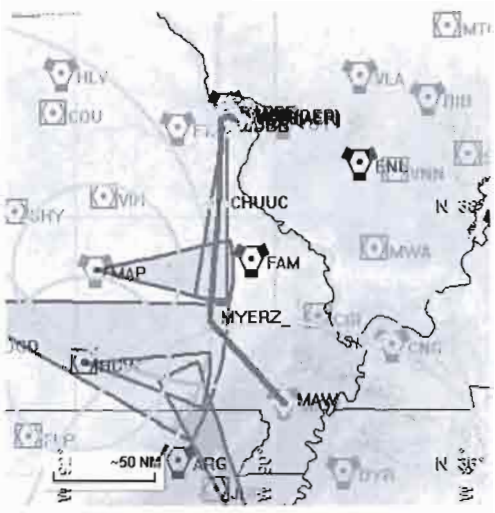
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 8:40:45 AM
Input File:	CHUUC RW29 MAW 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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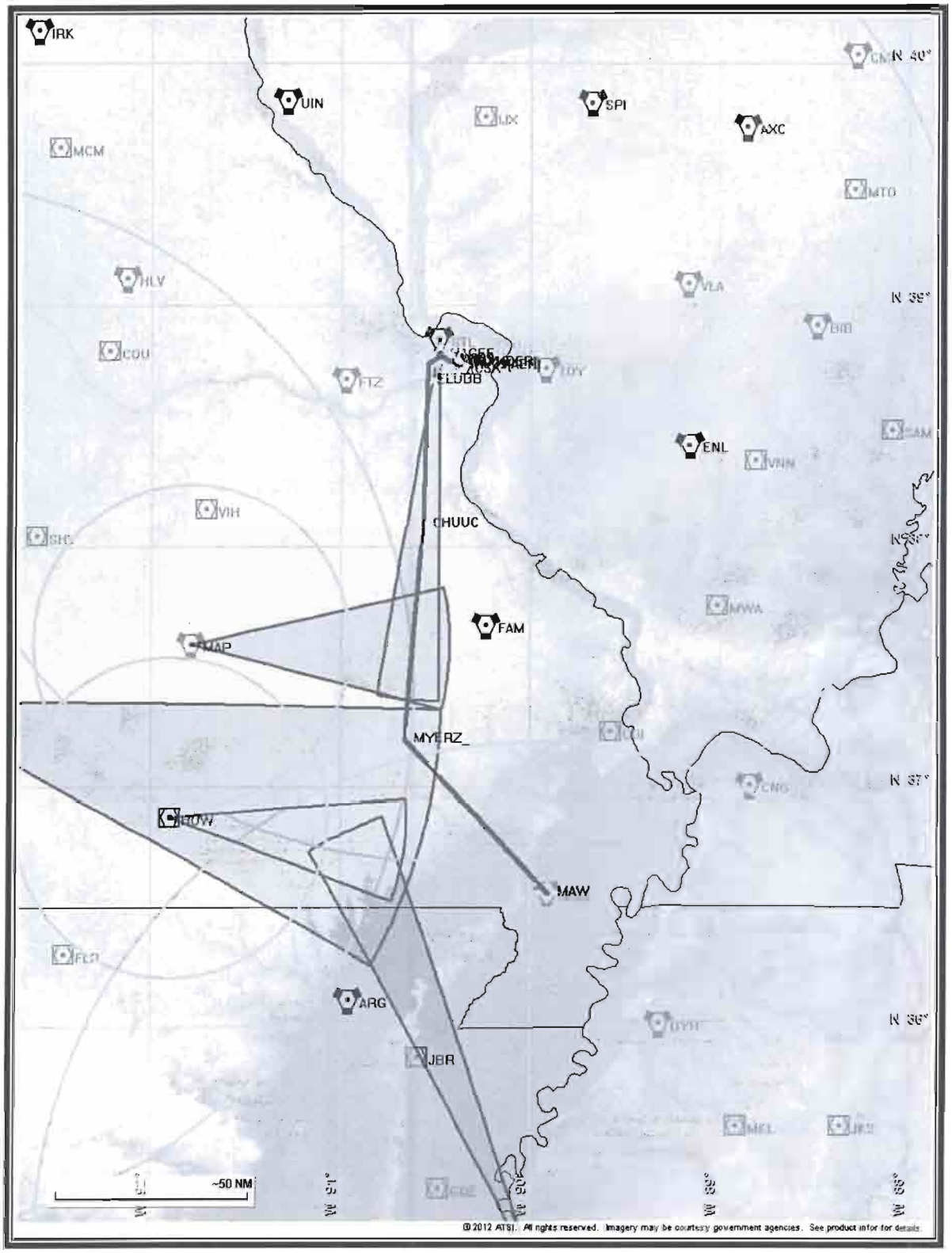
IRK
UIN
SPI
AXC
MCM
MTO
HLV
VLA
COU
FTZ
SLUDB
ENL
VNN
VIH
CHUUC
FAM
MAP
MYERZ_
MAW
ARG
JBR
N 40°
N 39°
N 37°
N 36°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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.

Flight Track comes into contact with terrain. Minimum AGL along route was -47.99 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: 1661 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.723 NM.

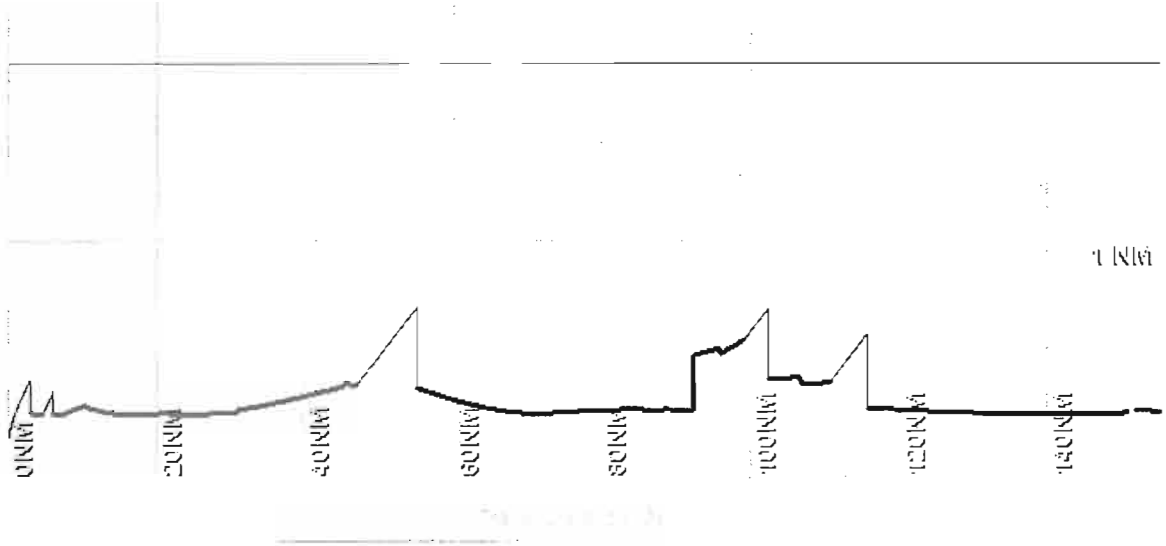
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.614	Enabled	36.1 %	34.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.837	Enabled	23.9 %	23.7 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.969	Enabled	23.0 %	22.7 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.723	Enabled	1.0 %	1.1 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.279	Enabled	17.1 %	18.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.723	Enabled	10.4 %	11.1 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	1.326	Enabled	28.8 %	30.6 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.723	Enabled	2.2 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.245	Enabled	5.0 %	5.3 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	Database	NO	1.176	Enabled	22.0 %	23.4 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.723	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	STL	FTZ	CSX			
4.9	STL	FTZ	CSX			
8.4	STL	FTZ	CSX			
13.0	STL	FTZ	CSX	TOY	FAM	
48.8	STL	FAM	MAP	ARG		
79.0	STL	CSX	MAP	ARG	ENL	FAM
90.4	STL	FAM	MAP	ARG	ENL	CSX
101.8	STL	FAM	SGF	ARG	CSX	
111.9	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' 19.70" W 90° 26' 4.80"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
2	N 38° 47' 16.83" W 90° 28' 2.05"	N 38° 47' 7.82" W 90° 29' 34.95"	1.4
	VOR: CSX	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: FTZ	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: STL	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: TOY	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
3	N 38° 7' 22.42" W 90° 33' 59.47"	N 37° 59' 16.58" W 90° 34' 42.89"	8.1
	VOR: CSX	Available from N 38° 7' 22.42" W 90° 33' 59.47" to N 38° 6' 22.37" W 90° 34' 1.50"	
	VOR: FAM	Available from N 38° 7' 22.42" W 90° 33' 59.47" to N 37° 59' 16.58" W 90° 34' 42.89"	
	VOR: FTZ	Available from N 38° 7' 22.42" W 90° 33' 59.47" to N 38° 6' 29.04" W 90° 34' 1.28"	
4	N 37° 15' 20.01" W 90° 39' 28.92"	N 37° 12' 3.92" W 90° 39' 43.93"	3.3
	VOR: FAM	Available from N 37° 15' 20.01" W 90° 39' 28.92" to N 37° 12' 3.92" W 90° 39' 43.93"	
5	N 37° 5' 56.59" W 90° 32' 48.42"	N 37° 2' 23.13" W 90° 28' 36.67"	4.9
	VOR: FAM	Available from N 37° 5' 56.59" W 90° 32' 48.42" to N 37° 2' 23.13" W 90° 28' 36.67"	
	VOR: MAW	Available from N 37° 2' 30.41" W 90° 28' 45.25" to N 37° 2' 23.13" W 90° 28' 36.67"	

DME/DME (Continued.)

Return To Summary

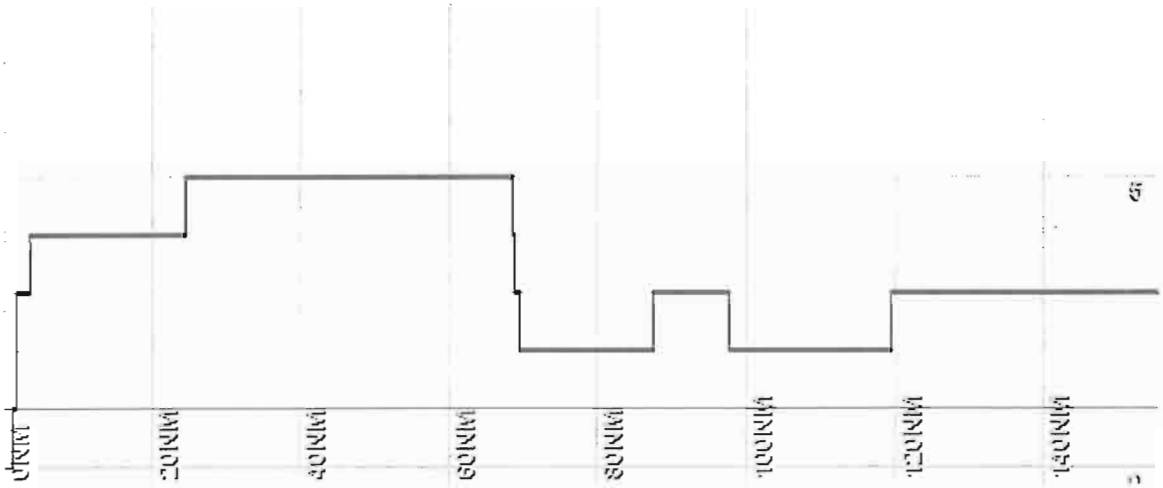
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	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"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Not Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 9:10:35 AM
Input File:	CHUUC RW30L ARG 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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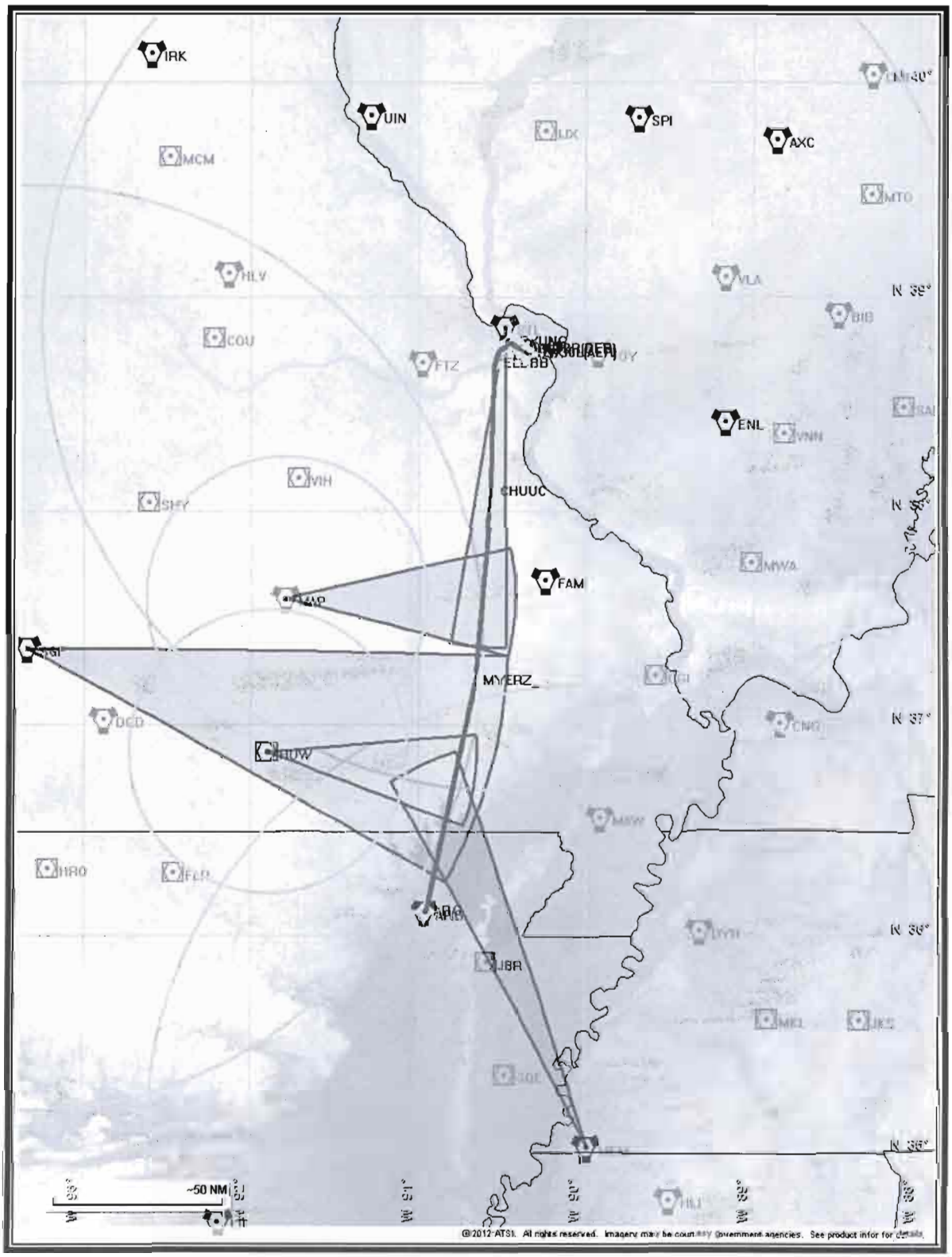
IRK
UIN
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MCM
MTO
HLV
VLA
COU
FTZ
ENL
VIH
CHUUC
FAM
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DCD
HRO
FLP
JBR
~50 NM
N 38°
N 37°
N 36°
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Flight Plan

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
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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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.

Flight Track comes into contact with terrain. Minimum AGL along route was -31.97 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: 1662 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.726 NM.

No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.614	Enabled	32.8 %	31.7 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.839	Enabled	22.6 %	22.1 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.967	Enabled	20.7 %	20.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.726	Enabled	0.9 %	1.0 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.281	Enabled	31.4 %	33.3 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.726	Enabled	9.5 %	10.1 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	0.726	Enabled	18.3 %	19.4 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.726	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.386	Enabled	25.9 %	27.5 %
10	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L + ESV	User	NO	0.726	Enabled	4.4 %	4.6 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.909	Enabled	6.4 %	6.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.9	STL	FTZ	CSX			
5.3	STL	FTZ	CSX			
9.3	STL	FTZ	CSX			
13.1	STL	FTZ	CSX	TOY	FAM	
49.3	STL	MAP	CSX	ARG	FAM	ENL
92.6	STL	MAP	ENL	ARG	FAM	CSX
102.7	STL	CSX	SGF	ARG	FAM	
112.8	MEM	HUW	SGF	ARG	FAM	

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' 1.13" W 90° 24' 20.75"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
2	N 38° 47' 11.68" W 90° 26' 49.29"	N 38° 46' 15.92" W 90° 28' 55.53"	1.9
	VOR: CSX	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
	VOR: FTZ	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
	VOR: STL	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
	VOR: TOY	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
3	N 38° 7' 23.61" W 90° 33' 59.43"	N 37° 59' 17.78" W 90° 34' 42.76"	8.1
	VOR: CSX	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 20.23" W 90° 34' 1.58"	
	VOR: FAM	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 37° 59' 17.78" W 90° 34' 42.76"	
	VOR: FTZ	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 30.24" W 90° 34' 1.24"	
4	N 37° 15' 17.88" W 90° 39' 29.15"	N 37° 11' 51.78" W 90° 39' 52.07"	3.4
	VOR: FAM	Available from N 37° 15' 17.88" W 90° 39' 29.15" to N 37° 11' 51.78" W 90° 39' 52.07"	
5	N 36° 7' 4.70" W 90° 57' 5.80"	N 36° 6' 38.58" W 90° 57' 12.64"	0.4
	VOR: ARG	Available from N 36° 7' 4.70" W 90° 57' 5.80" to N 36° 6' 38.58" W 90° 57' 12.64"	
	VOR: JBR	Available from N 36° 7' 4.70" W 90° 57' 5.80" to N 36° 6' 38.58" W 90° 57' 12.64"	

DME/DME (Continued.)

Return To Summary

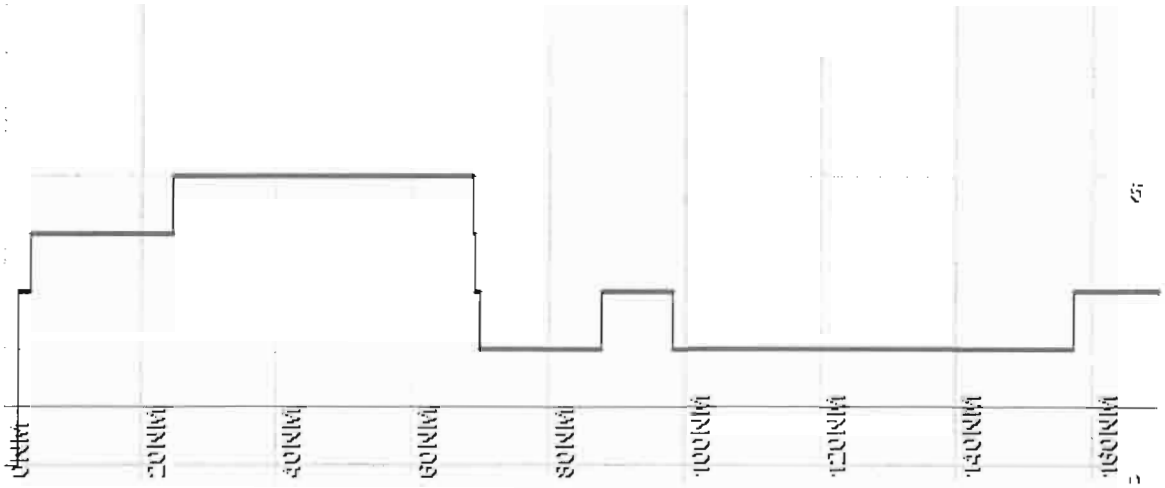
User DMEs

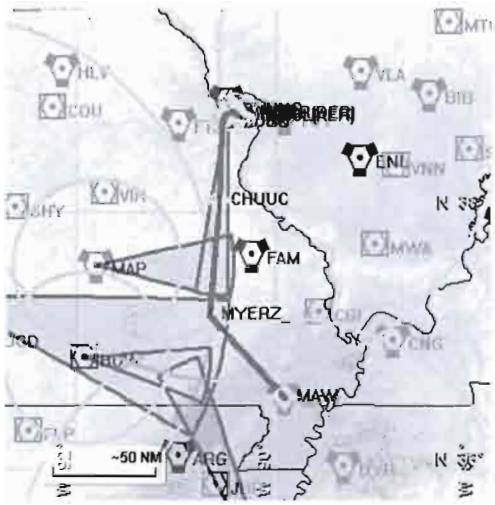
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 9:26:08 AM
Input File:	CHUUC RW30L MAW 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

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

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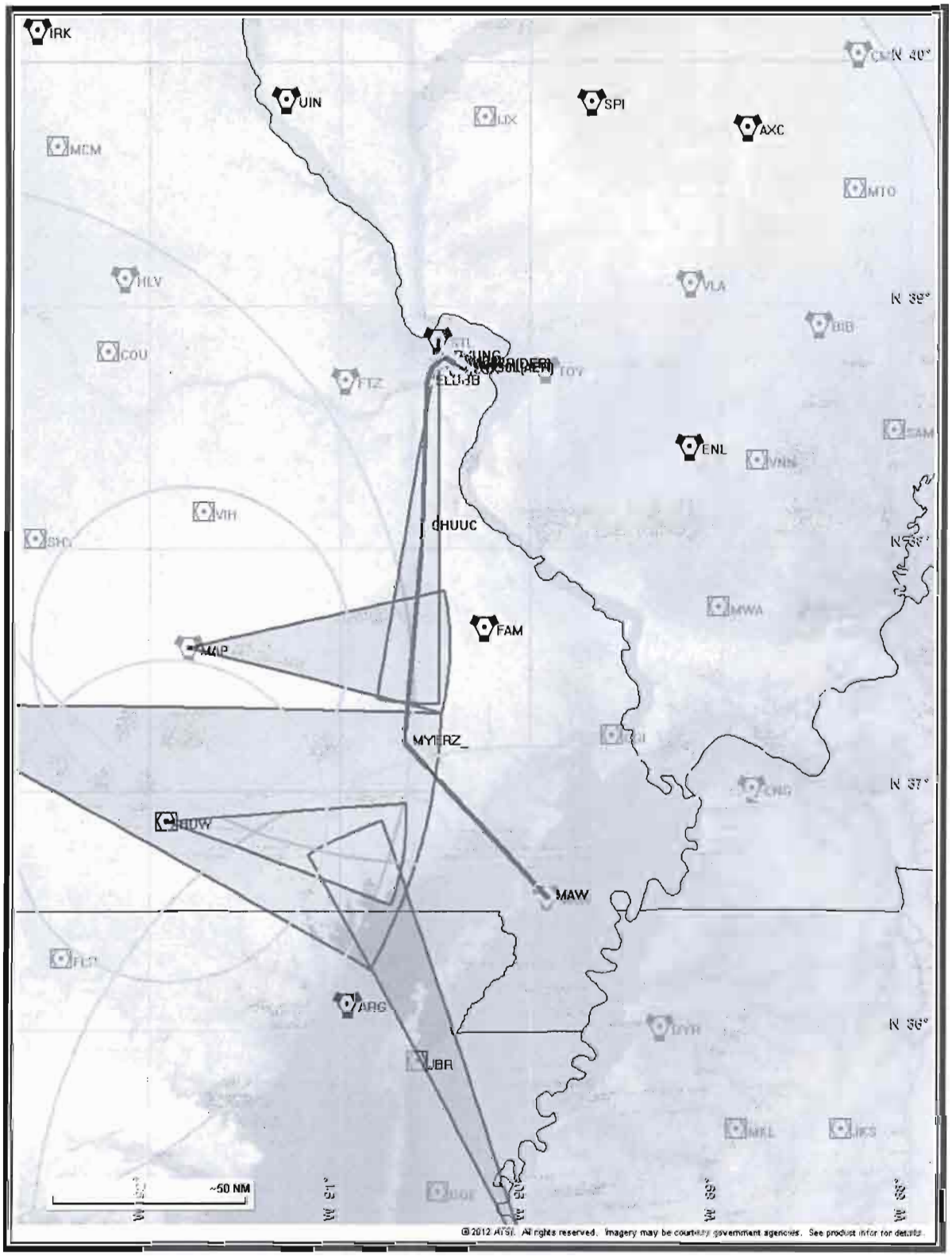
IRK
UIN
SPI
AXC
MCM
MTO
HLV
VLA
BIB
COU
FTZ
ENL
VIH
CHUUC
FAM
MYERZ_
MAW
ARG
JBR
~50 NM
N 40°
N 39°
N 37°
N 36°
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Flight Plan

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
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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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.

Flight Track comes into contact with terrain. Minimum AGL along route was -31.97 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: 1662 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.723 NM.

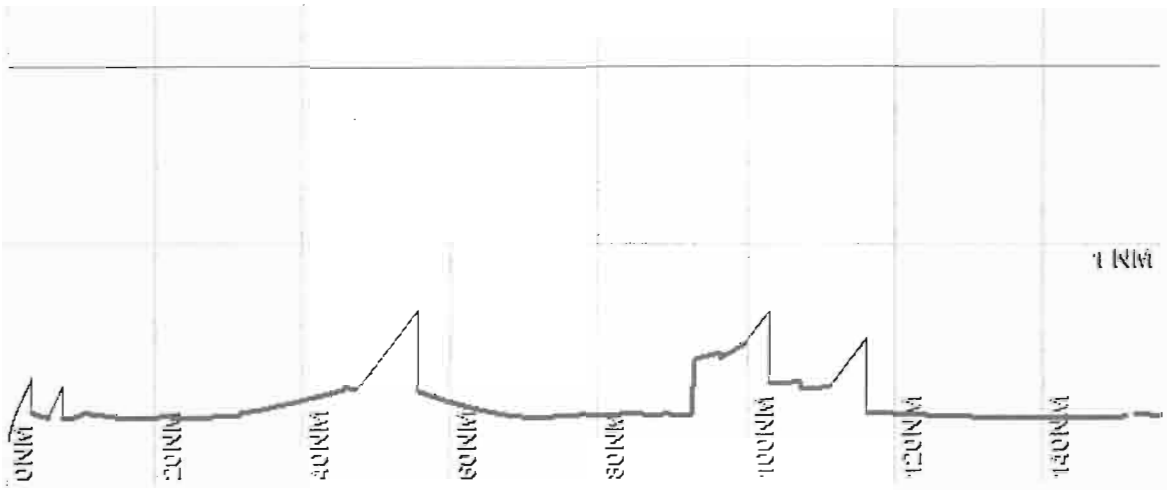
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.614	Enabled	35.5 %	34.6 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.839	Enabled	24.5 %	24.1 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.967	Enabled	21.7 %	21.9 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.723	Enabled	1.0 %	1.1 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.281	Enabled	17.1 %	18.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.723	Enabled	10.3 %	11.0 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	1.326	Enabled	28.7 %	30.5 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.723	Enabled	2.2 %	2.4 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.244	Enabled	5.0 %	5.3 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	Database	NO	1.174	Enabled	21.9 %	23.3 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.723	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.9	STL	FTZ	CSX			
5.3	STL	FTZ	CSX			
9.3	STL	FTZ	CSX			
13.1	STL	FTZ	CSX	TOY	FAM	
49.3	STL	FAM	MAP	ARG		
79.5	STL	CSX	MAP	ARG	ENL	FAM
90.9	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' 17.08" W 90° 20' 49.42"	N 38° 46' 1.13" W 90° 24' 20.75"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
2	N 38° 47' 11.68" W 90° 26' 49.29"	N 38° 46' 15.92" W 90° 28' 55.53"	1.9
	VOR: CSX	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
	VOR: FTZ	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
	VOR: STL	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
	VOR: TOY	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 15.92" W 90° 28' 55.53"	
3	N 38° 7' 23.61" W 90° 33' 59.43"	N 37° 59' 17.78" W 90° 34' 42.76"	8.1
	VOR: CSX	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 20.23" W 90° 34' 1.58"	
	VOR: FAM	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 37° 59' 17.78" W 90° 34' 42.76"	
	VOR: FTZ	Available from N 38° 7' 23.61" W 90° 33' 59.43" to N 38° 6' 30.24" W 90° 34' 1.24"	
4	N 37° 15' 17.88" W 90° 39' 29.15"	N 37° 12' 5.08" W 90° 39' 44.27"	3.2
	VOR: FAM	Available from N 37° 15' 17.88" W 90° 39' 29.15" to N 37° 12' 5.08" W 90° 39' 44.27"	
5	N 37° 5' 55.04" W 90° 32' 46.56"	N 37° 2' 24.00" W 90° 28' 37.68"	4.8
	VOR: FAM	Available from N 37° 5' 55.04" W 90° 32' 46.56" to N 37° 2' 24.00" W 90° 28' 37.68"	
	VOR: MAW	Available from N 37° 2' 28.85" W 90° 28' 43.39" to N 37° 2' 24.00" W 90° 28' 37.68"	

DME/DME (Continued.)

Return To Summary

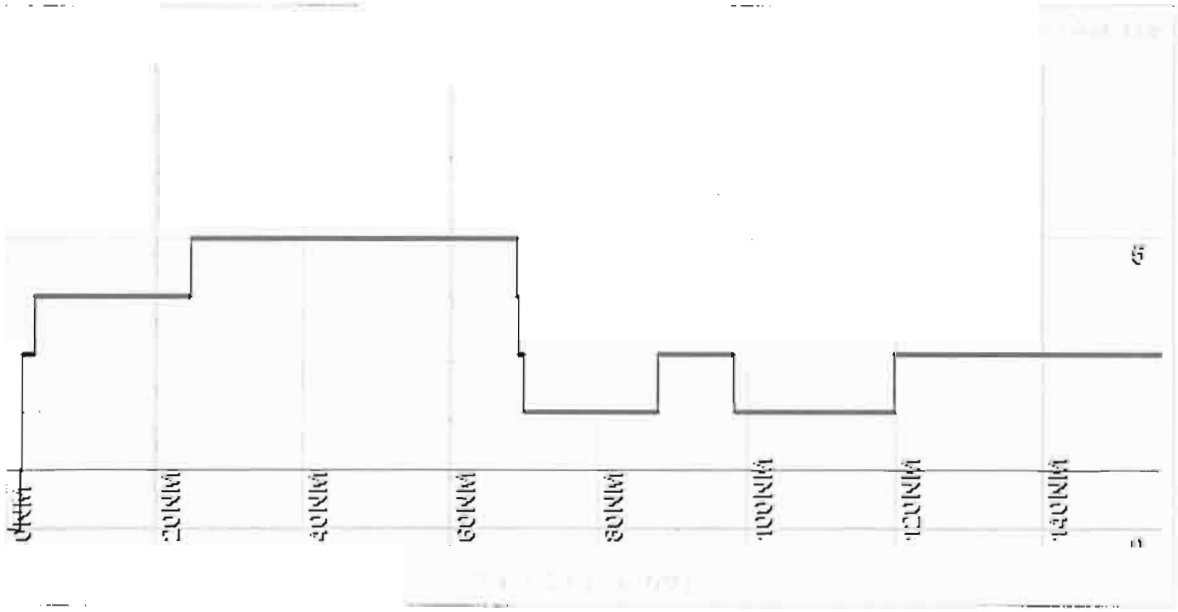
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	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"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Not Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 9:57:25 AM
Input File:	CHUUC RW30R ARG 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

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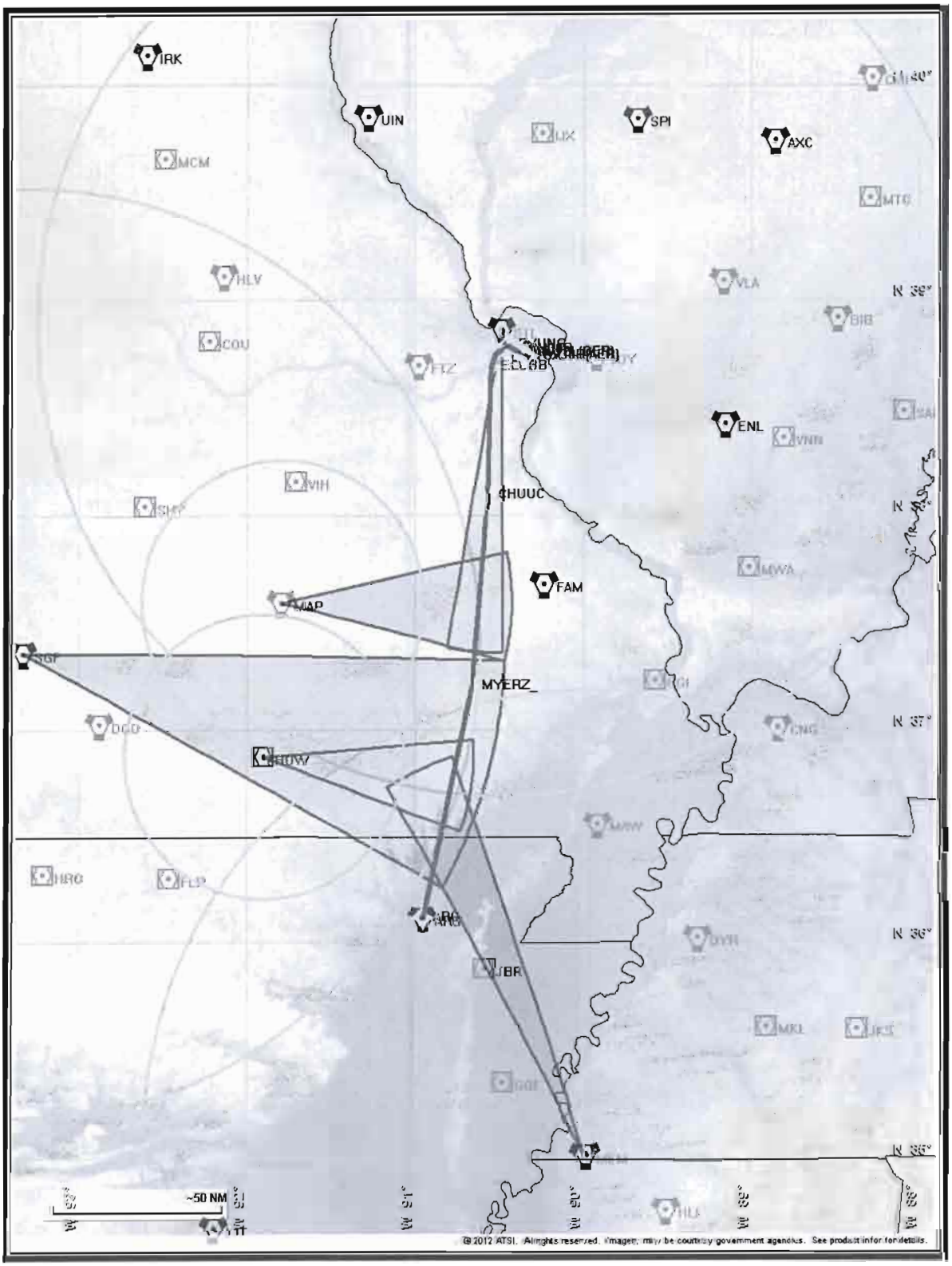
IRK
UIN
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AXC
MCM
HLV
COU
VLA
BIB
ENL
VIH
CHUUC
FAM
MYERZ_
MWA
CNG
DVR
MKL
~50 NM
N 38°
N 37°
N 36°
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Flight Plan

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

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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.

Flight Track comes into contact with terrain. Minimum AGL along route was -19.95 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: 1773 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.724 NM.

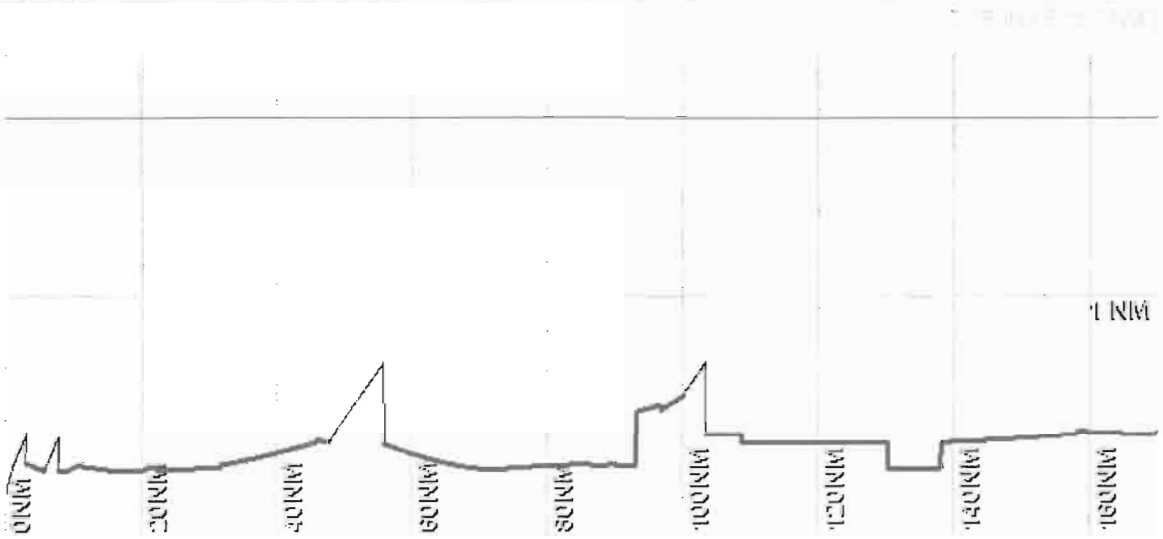
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.614	Enabled	33.0 %	32.0 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.837	Enabled	22.8 %	22.4 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.965	Enabled	20.6 %	20.7 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.724	Enabled	0.9 %	1.0 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.282	Enabled	31.4 %	33.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.724	Enabled	9.5 %	10.1 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	0.724	Enabled	18.3 %	19.4 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.724	Enabled	2.0 %	2.2 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.384	Enabled	25.9 %	27.5 %
10	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L + ESV	User	NO	0.724	Enabled	4.4 %	4.6 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.909	Enabled	6.4 %	6.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.6	STL	FTZ	CSX			
5.6	STL	FTZ	CSX			
9.6	STL	FTZ	CSX			
13.4	STL	FTZ	CSX	TOY	FAM	
49.6	STL	MAP	CSX	ARG	FAM	ENL
92.9	STL	MAP	ENL	ARG	FAM	CSX
103.0	STL	CSX	SGF	ARG	FAM	
113.2	MEM	HUW	SGF	ARG	FAM	

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' 55.28" W 90° 23' 41.89"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
2	N 38° 47' 12.25" W 90° 26' 47.05"	N 38° 46' 15.93" W 90° 28' 55.52"	2.0
	VOR: CSX	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
	VOR: FTZ	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
	VOR: STL	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
	VOR: TOY	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
3	N 38° 7' 23.10" W 90° 33' 59.45"	N 37° 59' 20.59" W 90° 34' 42.45"	8.1
	VOR: CSX	Available from N 38° 7' 23.10" W 90° 33' 59.45" to N 38° 6' 19.72" W 90° 34' 1.59"	
	VOR: FAM	Available from N 38° 7' 23.10" W 90° 33' 59.45" to N 37° 59' 20.59" W 90° 34' 42.45"	
	VOR: FTZ	Available from N 38° 7' 23.10" W 90° 33' 59.45" to N 38° 6' 29.72" W 90° 34' 1.26"	
4	N 37° 15' 17.36" W 90° 39' 29.20"	N 37° 11' 54.57" W 90° 39' 51.53"	3.4
	VOR: FAM	Available from N 37° 15' 17.36" W 90° 39' 29.20" to N 37° 11' 54.57" W 90° 39' 51.53"	
5	N 36° 7' 4.19" W 90° 57' 5.93"	N 36° 6' 38.07" W 90° 57' 12.78"	0.4
	VOR: ARG	Available from N 36° 7' 4.19" W 90° 57' 5.93" to N 36° 6' 38.07" W 90° 57' 12.78"	
	VOR: JBR	Available from N 36° 7' 4.19" W 90° 57' 5.93" to N 36° 6' 38.07" W 90° 57' 12.78"	

DME/DME (Continued.)

Return To Summary

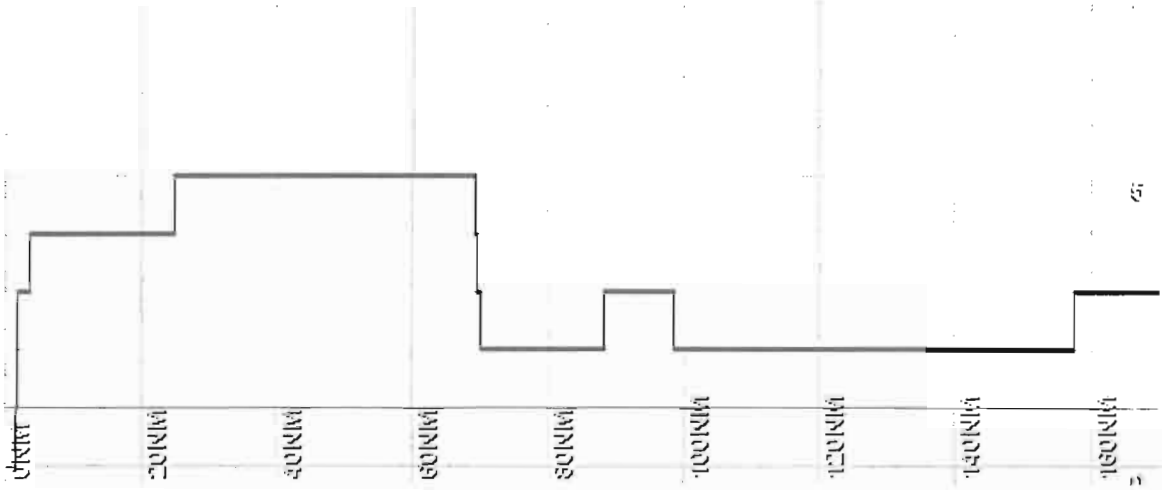
User DMEs

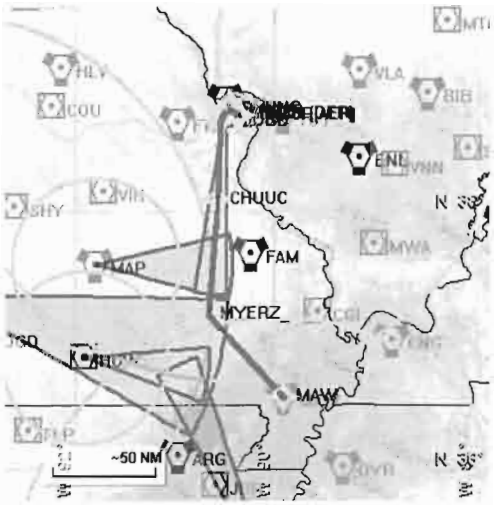
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H	1240.0	116.90	SGF	Used
		ESV: Bearing [True]: 90.0° to 118.0° Bearing [Mag]: 86.0° to 114.0°			Arc Distance: Out to 137.0 NM Altitude: 18000.0 to 45000.0 Ft.		
2	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 10:19:12 AM
Input File:	CHUUC RW30R MAW 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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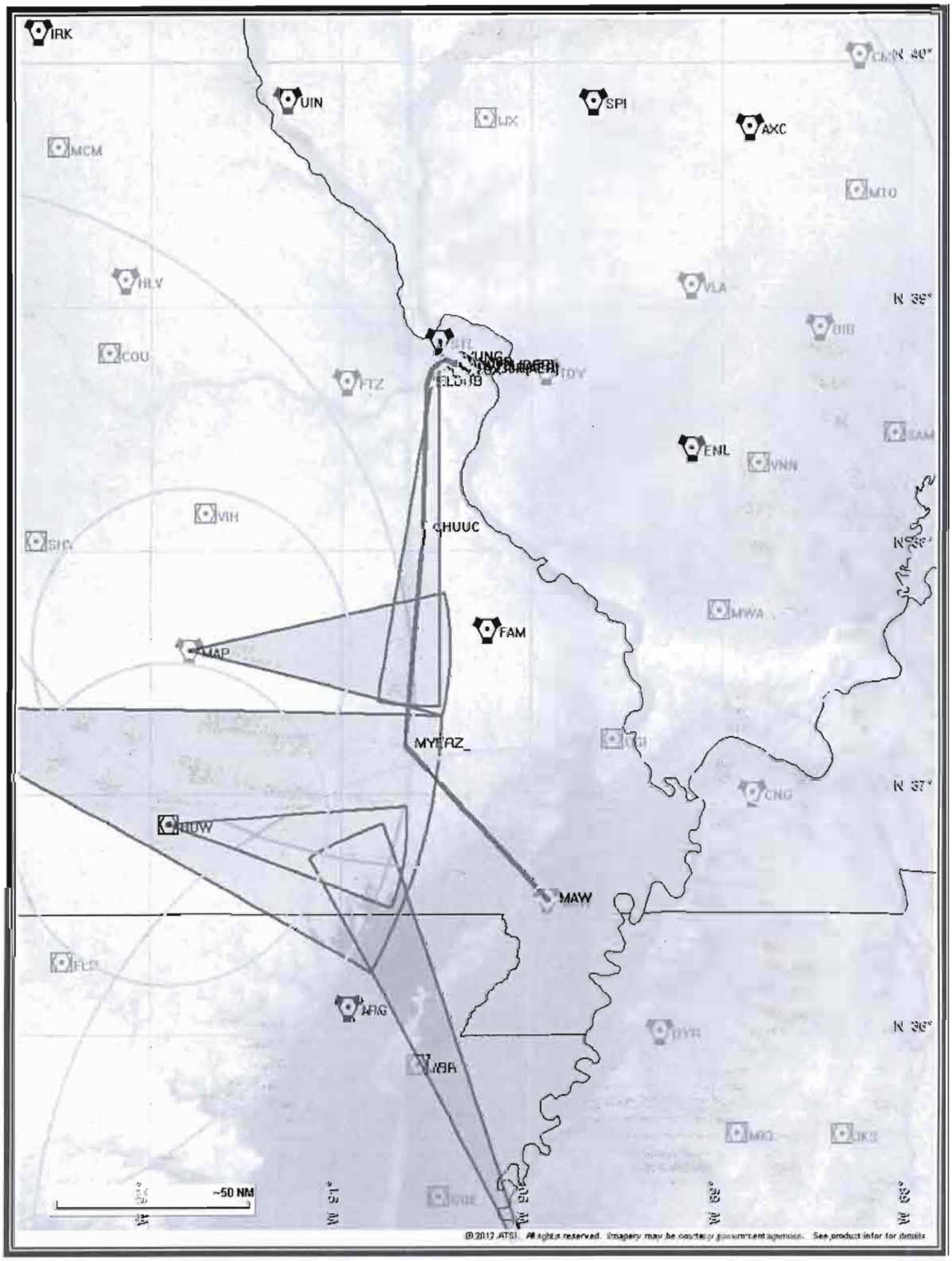

IRK
UIN
SPI
AXC
MCM
MTO
HLV
VLA
COU
FTZ
ENL
VNN
VIH
CHUUC
FAM
MAP
MYERZ_
CNG
MAW
ARG
~50 NM

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
MAW	WP	N 36° 33' 18.41" W 89° 54' 41.12"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 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.

Flight Track comes into contact with terrain. Minimum AGL along route was -19.95 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: 1773 Ft.

Total Number of DMEs Used: 11

Maximum DME Error: 0.720 NM.

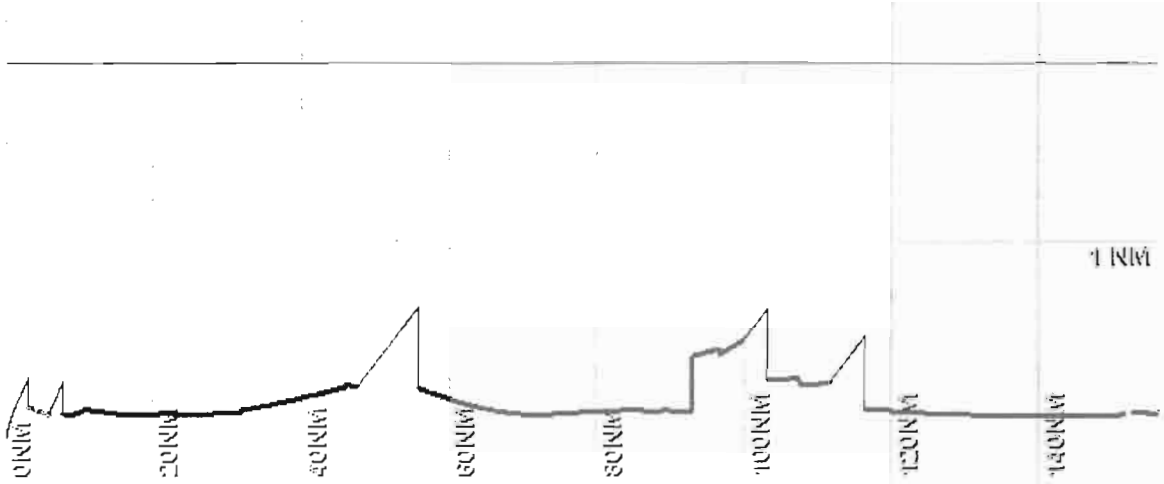
No Critical DMEs were found.

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

Duplicate DMEs: HUW

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.614	Enabled	35.7 %	34.8 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.837	Enabled	24.7 %	24.3 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.965	Enabled	21.7 %	21.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.720	Enabled	1.0 %	1.1 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	1.282	Enabled	17.1 %	18.2 %
6	MAP	N 37° 35' 26.76" W 91° 47' 18.85"	L + ESV	User	NO	0.720	Enabled	10.3 %	11.0 %
7	ARG	N 36° 6' 36.07" W 90° 57' 13.30"	H	Database	NO	1.328	Enabled	28.6 %	30.5 %
8	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.720	Enabled	2.2 %	2.3 %
9	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	H + ESV	User	NO	1.244	Enabled	5.0 %	5.3 %
10	MAW	N 36° 33' 18.41" W 89° 54' 41.12"	L	Database	NO	1.174	Enabled	21.9 %	23.3 %
11	MEM	N 35° 0' 54.42" W 89° 58' 59.55"	H + ESV	User	NO	0.720	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.6	STL	FTZ	CSX			
5.6	STL	FTZ	CSX			
9.6	STL	FTZ	CSX			
13.4	STL	FTZ	CSX	TOY	FAM	
49.6	STL	FAM	MAP	ARG		
79.8	STL	CSX	MAP	ARG	ENL	FAM
91.2	STL	FAM	MAP	ARG	ENL	CSX
102.5	STL	FAM	SGF	ARG	CSX	
112.7	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' 55.28" W 90° 23' 41.89"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
2	N 38° 47' 12.25" W 90° 26' 47.05"	N 38° 46' 15.93" W 90° 28' 55.52"	2.0
	VOR: CSX	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
	VOR: FTZ	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
	VOR: STL	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
	VOR: TOY	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 15.93" W 90° 28' 55.52"	
3	N 38° 7' 23.10" W 90° 33' 59.45"	N 37° 59' 20.59" W 90° 34' 42.45"	8.1
	VOR: CSX	Available from N 38° 7' 23.10" W 90° 33' 59.45" to N 38° 6' 19.72" W 90° 34' 1.59"	
	VOR: FAM	Available from N 38° 7' 23.10" W 90° 33' 59.45" to N 37° 59' 20.59" W 90° 34' 42.45"	
	VOR: FTZ	Available from N 38° 7' 23.10" W 90° 33' 59.45" to N 38° 6' 29.72" W 90° 34' 1.26"	
4	N 37° 15' 17.36" W 90° 39' 29.20"	N 37° 12' 4.58" W 90° 39' 44.13"	3.2
	VOR: FAM	Available from N 37° 15' 17.36" W 90° 39' 29.20" to N 37° 12' 4.58" W 90° 39' 44.13"	
5	N 37° 5' 54.66" W 90° 32' 46.13"	N 37° 2' 23.62" W 90° 28' 37.25"	4.8
	VOR: FAM	Available from N 37° 5' 54.66" W 90° 32' 46.13" to N 37° 2' 23.62" W 90° 28' 37.25"	
	VOR: MAW	Available from N 37° 2' 30.90" W 90° 28' 45.82" to N 37° 2' 23.62" W 90° 28' 37.25"	

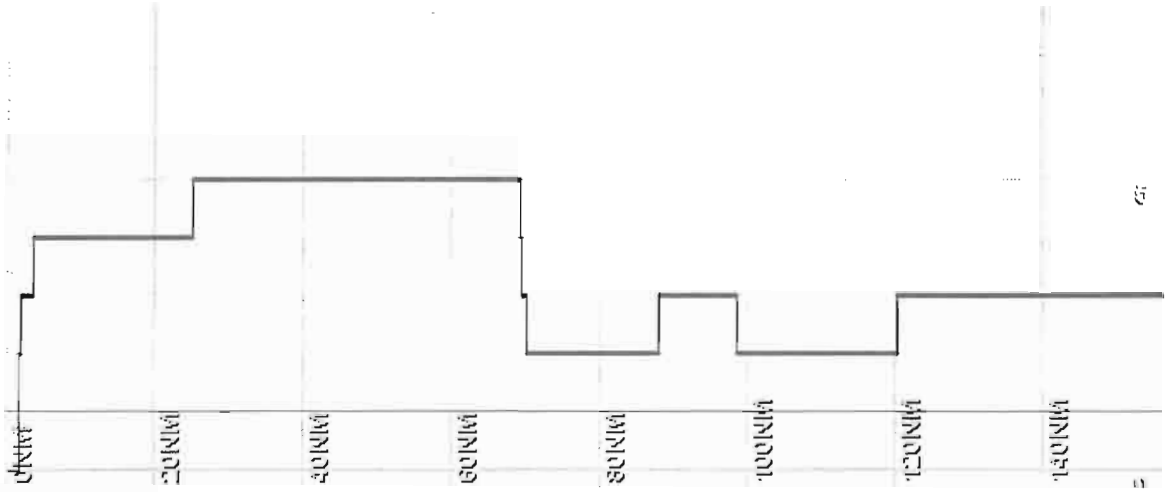
DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SGF	N 37° 21' 21.41" W 93° 20' 2.54"	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"	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"	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"	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.		
5	HUW	N 36° 52' 16.97" W 91° 53' 59.98"	L	1220.0	111.6	[None]	Not Used
		ESV: Bearing [True]: 85.0° to 110.0° Bearing [Mag]: 83.0° to 108.0°			Arc Distance: Out to 60.0 NM Altitude: 16000.0 to 19000.0 Ft.		

Radar Analysis

Return To Summary

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