Flight Procedure Tracking Form

Action: FLIGHT CHECK	**Task Type:** SID	**Date Open:** 10/02/2012	**Task #:** 2012060424528802012	**Request #:** 20120604245288
Procedure: SID TEDDD (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

pkg 12 of 13

ST LOUIS, MO LAMBERT-ST LOUIS INTL (KSTL) TEDDD 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) ANNII, ORIG; CENTRALIA (ENL) VTAC, REV 14; DSAPP, ORIG; FUNKE, ORIG; HILTS-INT, REV 4; KAEYE, ORIG; LENXX, ORIG; LOUISVILLE (IIU) VTAC, REV 10; RAMKR, ORIG; TEDDD, ORIG; WOLTR, ORIG; ZOLLI-INT, REV 2.

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

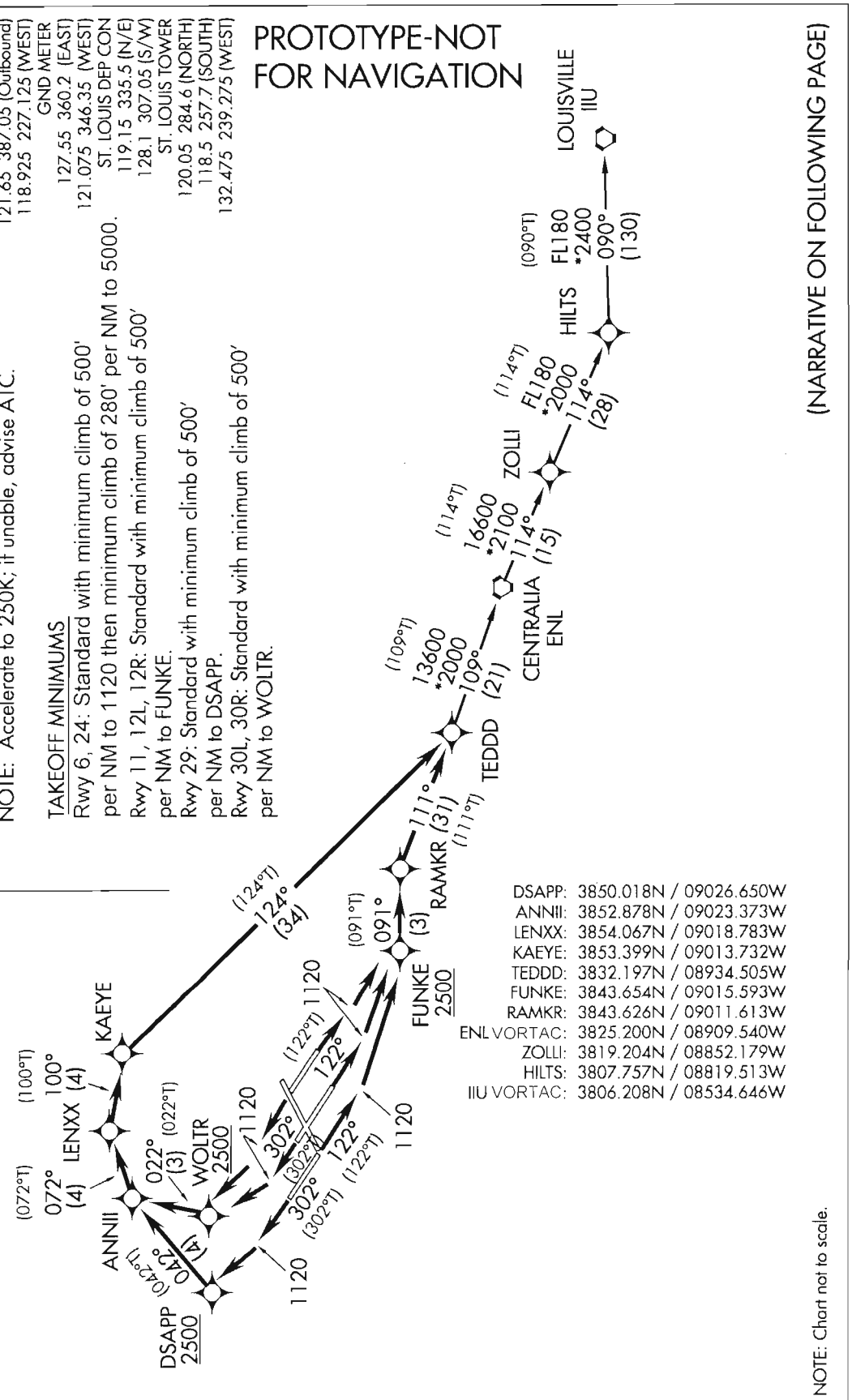
New

ATIS 125.025 379.925
CLNC DEL 119.5 363.1
GND CON 121.9 348.6 (Inbound) 121.65 387.05 (Outbound) 118.925 227.125 (WEST)
GND METER 127.55 360.2 (EAST) 121.075 346.35 (WEST)
ST. LOUIS DEP CON 119.15 335.5 (N/E) 128.1 307.05 (S/W)
ST. LOUIS TOWER 120.05 284.6 (NORTH) 118.5 257.7 (SOUTH) 132.475 239.275 (WEST)

PROTOTYPE-NOT FOR NAVIGATION

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: For use by Turbojet aircraft only
NOTE: Accelerate to 250K; if unable, advise ATC.

TAKEOFF MINIMUMS
Rwy 6, 24: Standard with minimum climb of 500' per NM to 1120 then minimum climb of 280' per NM to 5000.
Rwy 11, 12L, 12R: Standard with minimum climb of 500' per NM to FUNKE.
Rwy 29: Standard with minimum climb of 500' per NM to DSAPP.
Rwy 30L, 30R: Standard with minimum climb of 500' per NM to WOLTR.



DSAPP: 3850.018N / 09026.650W
ANNII: 3852.878N / 09023.373W
LENXX: 3854.067N / 09018.783W
KAEYE: 3853.399N / 09013.732W
TEDDD: 3832.197N / 08934.505W
FUNKE: 3843.654N / 09015.593W
RAMKR: 3843.626N / 09011.613W
ENL VORTAC: 3825.200N / 08909.540W
ZOLLI: 3819.204N / 08852.179W
HILTS: 3807.757N / 08819.513W
IIU VORTAC: 3806.208N / 08534.646W

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NEW

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 6: Climb heading 063 to 1120, then as assigned by ATC, expect RADAR vectors to TEDDD. Thence...
TAKEOFF RWY 24: Climb heading 243 to 1120, then as assigned by ATC, expect RADAR vectors to TEDDD. Thence...
TAKEOFF RWY 11: Climb heading 122° to 1120 then left turn direct FUNKE, cross FUNKE at or above 2500, then on depicted route to TEDDD. Thence. . . .
TAKEOFF RWY 12L, 12R: Climb heading 122° to 1120 then left turn direct FUNKE, cross FUNKE at or above 2500, then on depicted route to TEDDD. Thence. . . .
TAKEOFF RWY 29: Climb heading 302° to 1120 then right turn direct DSAPP, cross DSAPP at or above 2500. Then on depicted route to TEDDD. Thence. . . .
TAKEOFF RWY 30L, 30R: Climb heading 302° to 1120 then right turn direct WOLTR, cross WOLTR at or above 2500 then on depicted route to TEDDD. Thence. . . .

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

HILTS TRANSITION (TEDDD2.HILTS)

LOUISVILLE TRANSITION (TEDDD2.IIU)

TAKEOFF OBSTACLE NOTES

Rwy 6: Railroad 578′ from DER, 620′ left of centerline, 23 AGL/557′ MSL. OL on LDA and antenna on building 1038′ from DER, 706′ right of centerline, 30′ AGL/598′ MSL.
Rwy 11: Multiple signs, trees, towers, and buildings beginning 2348′ from DER, 205′ left of centerline, up to 219′ AGL/774′ MSL.
Multiple signs, trees, towers, and buildings 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 buildings 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 buildings, trees, and electrical system beginning 2039′ from DER, 387′ right of centerline, up to 81′ AGL/670′ MSL.

PROTOTYPE-NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : SPINNER	City : SPRINGFIELD	Ident : SPI	State : IL
Type/Class : TACR	Frequency : M1161	Reference No.: 12029366	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 042238-012	181	196	85	40	150

Requirement: REQUIRED FOR NEW TEDDD1 RNAV SID FOR STL

Signature: Enander Scott	Routing Symbol: AJV-C21	Date: 02/23/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 042238-012	181	196	85	40	150	APPROVE

Requirement/Remarks: REQUIRED FOR NEW TEDDD1 RNAV SID FOR STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 02/23/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 042238-012	181	196	85	40	150	APPROVE

Requirement/Remarks: REQUIRED FOR NEW TEDDD1 RNAV SID FOR STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 02/23/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 042238-012	181	196				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : FARMINGTON	City : FARMINGTON	Ident : FAM	State : MO
Type/Class : TACR	Frequency : M1191	Reference No.: 10061272	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 694136-022	7	59	80	40	170

Requirement: ESTABLISH AN ESV FOR THE STL SID TEDDD.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 06/07/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 694136-022	7	59	80	40	170	APPROVE

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

Signature: BOWERS MIKE	Routing Symbol:	Date: 06/14/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 694136-022	7	59	80	40	170	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 694136-022	7	59				

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
TEDDD	TWO	TEDDD2.TEDDD	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 TEDDD. THENCE...
TAKEOFF RWY 24: CLIMB HEADING 242.83 TO 1120 THEN AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO TEDDD. THENCE...
TAKEOFF RWY 11: CLIMB HEADING 122.17 TO 1120 THEN LEFT TURN DIRECT FUNKE, CROSS FUNKE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO TEDDD. THENCE...
TAKEOFF RWY 12L, 12R: CLIMB HEADING 122.19 TO 1120 THEN LEFT TURN DIRECT FUNKE, CROSS FUNKE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO TEDDD. THENCE...
TAKEOFF RWY 29: CLIMB HEADING 302.18 TO 1120 THEN RIGHT TURN DIRECT DSAPP, CROSS DSAPP AT OR ABOVE 2500. THEN ON DEPICTED ROUTE TO TEDDD. THENCE...
TAKEOFF RWY 30L: CLIMB HEADING 302.20 TO 1120 THEN RIGHT TURN DIRECT WOLTR, CROSS WOLTR AT OR ABOVE 2500 THEN ON DEPICTED ROUTE TO TEDDD. THENCE...
TAKEOFF RWY 30R: CLIMB HEADING 302.21 TO 1120 THEN RIGHT TURN DIRECT WOLTR, CROSS WOLTR AT OR ABOVE 2500 THEN ON DEPICTED ROUTE TO TEDDD. THENCE...

... (TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE TEN 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
HILTS	TEDDD2.HILTS	TEDDD	ENL VORTAC	TRACK 109.49	20.81	13600	2000	
		ENL VORTAC	ZOLLI	TRACK 113.60	14.91	16600	2100	
		ZOLLI	HILTS	TRACK113.78	28.17	FL180	2000	
LOUISVILLE	TEDDD2.IIU	TEDDD	ENL VORTAC	TRACK 109.49	20.81	13600	2000	
		ENL VORTAC	ZOLLI	TRACK 113.60	14.91	16600	2100	
		ZOLLI	HILTS	TRACK113.78	28.17	FL180	2000	
		HILTS	IIU VORTAC	TRACK 089.83	130.11	FL180	2400	

QUALITY 3 CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

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

TAKEOFF MINIMUMS:
RWY 6, 24 STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1120, THEN MINIMUM CLIMB OF 280 FT PER NM TO 5000
RWY 11, 12L, 12R STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO FUNKE.
RWY 29 STANDARD WITH MINIMUM CLIMB 0F 500 FT PER NM TO DSAPP.
RWY 30L, 30R STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO WOLTR.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 6, RAILROAD 578 FT FROM DER, 620 FT LEFT OF CENTERLINE, 23 AGL/557 FT 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)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	

ADDITIONAL FLIGHT DATA:

REFERENCE MAGVAR: KSTL 00 EPOCH YEAR: 2000.
DME/DME ASSESSMENT: SAT (RNP 2.0)
PILOT NAVIGATION AREA:
7NM ARC CENTERED ON TEDDD (IF), CW
FROM: POINT A (BEARING 064 DEGREES TO TEDDD)
TO: POINT B (BEARING 154 DEGREES TO TEDDD)
MINIMUM ALTITUDE – 10,000

AIRPORTS SERVED:

LAMBERT-ST LOUIS INTL ST, MO

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

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
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
ROUTINE

DEVELOPED BY:
JILL OLSON (ROSS BARTO) AJV-353 12/19/2012

APPROVED BY:
LARRY STROUT AJV-353

COORDINATED WITH:
ATA, ALPA, APA, AOPA, NBAA, STL DEP CON, ZKC

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 TEDDD.

REASONS:

PER FPT REQUEST

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	ROUTINE

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 280 FT/NM TO 5000
TEDDD	383211.84N/0893430.31W	Y	FB	DF	-	-			
RW11 (AER)	384535.83N/0902435.55W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.17	-			CG 500 FT/NM TO FUNKE
FUNKE	384339.26N/0901535.58W	Y	FB	DF	-	-	AT/ABOVE 2500		
RAMKR	384337.54N/0901136.78W	Y	FB	TF	090.51	3.11			
TEDDD	383211.84N/0893430.31W	Y	FB	TF	111.24	31.24			
RW12L (AER)	384506.41N/08902158.66W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO FUNKE
FUNKE	384339.26N/0901535.58W	Y	FB	DF	-	-	AT/ABOVE 2500		
RAMKR	384337.54N/0901136.78W	Y	FB	TF	090.51	3.11			
TEDDD	383211.84N/0893430.31W	Y	FB	TF	111.24	31.24			
RW12R (AER)*	384511.59N/0902239.98W	N	-	-	-	-			*DISPL THLD (467)
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO FUNKE
FUNKE	384339.26N/0901535.58W	Y	FB	DF	-	-	AT/ABOVE 2500		
RAMKR	384337.54N/0901136.78W	Y	FB	TF	090.51	3.11			
TEDDD	383211.84N/0893430.31W	Y	FB	TF	111.24	31.24			
RW24 (AER)	38384522.38N/0902127.02W	N	-	-	-	-			
1120 MSL	-	-	-	VA	242.83	-			CG 500 FT/NM TO 1120
-	-	-	-	VM	242.83	-			CG 280 FT/NM TO 5000
TEDDD	383211.84N/0893430.31W	Y	FB	DF	-	-			

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	ROUTINE

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW29 (AER)	384448.46N/0902259.39	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.18	-			CG 500 FT/NM TO DSAPP
DSAPP	385001.06N/0902638.98W	Y	FB	DF	-	-	AT/ABOVE 2500		RIGHT TURN
ANNII	385252.69N/0902322.37W	Y	FB	TF	041.83	3.84			
LENXX	385404.00N/0901846.99W	Y	FB	TF	071.64	3.78			
KAEYE	385323.93N/0901343.89W	Y	FB	TF	099.58	4.00			
TEDDD	383211.84N/0893430.31W	Y	FB	TF	124.40	33.70			
RW30L (AER)*	384417.08N/0902049.42W	N	-	-	-	-			*DISPL THLD (201)
1120 MSL	-	-	-	VA	302.20	-			CG 500 FT/NM TO WOLTR
WOLTR	384941.32N/0902503.02W	Y	FB	DF	-	-	AT/ABOVE 2500		RIGHT TURN
ANNII	385252.69N/0902322.37W	Y	FB	TF	022.35	3.45			
LENXX	385404.00N/0901846.99W	Y	FB	TF	071.64	3.78			
KAEYE	385323.93N/0901343.89W	Y	FB	TF	099.58	4.00			
TEDDD	383211.84N/0893430.31W	Y	FB	TF	124.40	33.70			
RW30R (AER)	384418.99N/0902022.51W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.21	-			CG 500 FT/MIN TO WOLTR
WOLTR	384941.32N/0902503.02W	Y	FB	DF	-	-	AT/ABOVE 2500		RIGHT TURN
ANNII	385252.69N/0902322.37W	Y	FB	TF	022.35	3.45			
LENXX	385404.00N/0901846.99W	Y	FB	TF	071.64	3.78			
KAEYE	385323.93N/0901343.89W	Y	FB	TF	099.58	4.00			
TEDDD	383211.84N/0893430.31W	Y	FB	TF	124.40	33.70			
TEDDD	383211.84N/0893430.31W	Y	-	IF	-	-			TEDDD2.HILTS
ENL VORTAC	382512.00N/0890932.39W	Y	FB	TF	109.49	20.81			
ZOLLI	381912.23N/0885210.73W	Y	FB	TF	113.60	14.91			
HILTS	380745.42N/0881930.79W	Y	FB	TF	113.78	28.17			

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	ROUTINE

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
TEDDD	383211.84N/0893430.31W	Y	-	IF	-	-			TEDDD2.IIU
ENL VORTAC	382512.00N/0890932.39W	Y	FB	TF	109.49	20.81			
ZOLLI	381912.23N/0885210.73W	Y	FB	TF	113.60	14.91			
HILTS	380745.42N/0881930.79W	Y	FB	TF	113.78	28.17			
IIU VORTAC	380612.47N/0853438.77W	Y	FB	TF	089.83	130.11			

QUALITY CHECKED 3

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ENL   K5011500VTHA N38251200W089093239    N38251200W089093239E0040005462     NARCENTRALIA
        SUSAD        IIU   K5011480VTH  N38061247W085343877    N38061247W085343877E0010007202     NARLOUISVILLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ANNII K30    W     N38525269W090232237                    W0011     NAR          ANNII
        SUSAEAENRT   DSAPP K30    W     N38500106W090263898                    W0010     NAR          DSAPP
        SUSAEAENRT   FUNKE K30    W     N38433926W090153558                    W0011     NAR          FUNKE
        SUSAEAENRT   HILTS K50    C   L N38074542W088193079                    W0025     NAR          HILTS
        SUSAEAENRT   KAEYE K30    W     N38532393W090134389                    W0012     NAR          KAEYE
        SUSAEAENRT   LENXX K30    W     N38540400W090184699                    W0011     NAR          LENXX
        SUSAEAENRT   RAMKR K50    W     N38433754W090113678                    W0012     NAR          RAMKR
        SUSAEAENRT   TEDDD K50    W     N38321184W089343031                    W0016     NAR          TEDDD
        SUSAEAENRT   WOLTR K30    W     N38494132W090250302                    W0010     NAR          WOLTR
        SUSAEAENRT   ZOLLI K50    C   L N38191223W088521073                    W0022     NAR          ZOLLI

                 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 KSTLK3DTEDDD24RW06  010          0        VA                     0628        + 01120     18000
        SUSAP KSTLK3DTEDDD24RW06  020          0        VM                     0628
        SUSAP KSTLK3DTEDDD24RW06  030TEDDDK5EA0EE    010DF
        SUSAP KSTLK3DTEDDD24RW11  010          0        VA                     1222        + 01120     18000
        SUSAP KSTLK3DTEDDD24RW11  020FUNKEK3EA0E     010DF                                + 02500
        SUSAP KSTLK3DTEDDD24RW11  030RAMKRK5EA0E     010TF
        SUSAP KSTLK3DTEDDD24RW11  040TEDDDK5EA0EE    010TF
        SUSAP KSTLK3DTEDDD24RW12B 010          0        VA                     1222        + 01120     18000
        SUSAP KSTLK3DTEDDD24RW12B 020FUNKEK3EA0E     010DF                                + 02500
        SUSAP KSTLK3DTEDDD24RW12B 030RAMKRK5EA0E     010TF
        SUSAP KSTLK3DTEDDD24RW12B 040TEDDDK5EA0EE    010TF
        SUSAP KSTLK3DTEDDD24RW24  010          0        VA                     2428        + 01120     18000
        SUSAP KSTLK3DTEDDD24RW24  020          0        VM                     2428        +
        SUSAP KSTLK3DTEDDD24RW24  030TEDDDK5EA0EE    010DF
        SUSAP KSTLK3DTEDDD24RW29  010          0        VA                     3022        + 01120     18000
        SUSAP KSTLK3DTEDDD24RW29  020DSAPPK3EA0E     010DF                                + 02500
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	

```
SUSAP KSTLK3DTEDDD24RW29  030ANNIIK3EA0E    010TF
SUSAP KSTLK3DTEDDD24RW29  040LENXXK3EA0E    010TF
SUSAP KSTLK3DTEDDD24RW29  050KAEYEK3EA0E    010TF
SUSAP KSTLK3DTEDDD24RW29  060TEDDDK5EA0EE   010TF
SUSAP KSTLK3DTEDDD24RW30B 010         0       VA                    3022        + 01120     18000
SUSAP KSTLK3DTEDDD24RW30B 020WOLTRK3EA0E    010DF                               + 02500
SUSAP KSTLK3DTEDDD24RW30B 030ANNIIK3EA0E    010TF
SUSAP KSTLK3DTEDDD24RW30B 040LENXXK3EA0E    010TF
SUSAP KSTLK3DTEDDD24RW30B 050KAEYEK3EA0E    010TF
SUSAP KSTLK3DTEDDD24RW30B 060TEDDDK5EA0EE   010TF
SUSAP KSTLK3DTEDDD26HILTS 010TEDDDK5EA0E      IF                                                18000
SUSAP KSTLK3DTEDDD26HILTS 020ENL  K5D 0V    010TF
SUSAP KSTLK3DTEDDD26HILTS 030ZOLLIK5EA0E    010TF
SUSAP KSTLK3DTEDDD26HILTS 040HILTSK5EA0EE   010TF
SUSAP KSTLK3DTEDDD26IIU   010TEDDDK5EA0E      IF                                                18000
SUSAP KSTLK3DTEDDD26IIU   020ENL  K5D 0V    010TF
SUSAP KSTLK3DTEDDD26IIU   030ZOLLIK5EA0E    010TF
SUSAP KSTLK3DTEDDD26IIU   040HILTSK5EA0E    010TF
SUSAP KSTLK3DTEDDD26IIU   050IIU  K5D 0VE   010TF
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3GRW06     0076070628 N38444804W090225243-0200    +0136600551000046150IIJAK1
        SUSAP KSTLK3GRW11     0090011222 N38453583W090243555-0700    +0157000618000059150IIOGZ3
        SUSAP KSTLK3GRW12L    0090031222 N38450641W090215866+0800    +0129700528000054150IILDZ3
        SUSAP KSTLK3GRW12R    0110191222 N38451159W090223998+0400    +0133200540046754200IILMR1
        SUSAP KSTLK3GRW24     0076072428 N38452238W090212702+0200    +0131300534000050150IISTL1
        SUSAP KSTLK3GRW29     0090013022 N38444846W090225939+0700    +0138100556000056150IIRQN1
        SUSAP KSTLK3GRW30L    0110193022 N38441708W090204942-0400    +0146300583020158200IIBKY1    IRMKL
        SUSAP KSTLK3GRW30R    0090033022 N38441899W090202251-0800    +0152900605000057150IISJW3
```

QUALITY CHECKED 4

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	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	TEDDD	030		DF		FB	1.0				
	RW11		010		VA		FB		122.2()		AA 01120	
	RW11	FUNKE	020		DF		FB	1.0			AA 02500	
	RW11	RAMKR	030		TF		FB	1.0				
	RW11	TEDDD	040		TF		FB	1.0				
	RW12B		010		VA		FB		122.2()		AA 01120	
	RW12B	FUNKE	020		DF		FB	1.0			AA 02500	
	RW12B	RAMKR	030		TF		FB	1.0				
	RW12B	TEDDD	040		TF		FB	1.0				
	RW24		010		VA		FB		242.8()		AA 01120	
	RW24		020		VM		FB		242.8()			
	RW24	TEDDD	030		DF		FB	1.0				
	RW29		010		VA		FB		302.2()		AA 01120	
	RW29	DSAPP	020		DF		FB	1.0			AA 02500	
	RW29	ANNII	030		TF		FB	1.0				
	RW29	LENXX	040		TF		FB	1.0				
	RW29	KAEYE	050		TF		FB	1.0				
	RW29	TEDDD	060		TF		FB	1.0				
	RW30B		010		VA		FB		302.2()		AA 01120	
	RW30B	WOLTR	020		DF		FB	1.0			AA 02500	
	RW30B	ANNII	030		TF		FB	1.0				
	RW30B	LENXX	040		TF		FB	1.0				
	RW30B	KAEYE	050		TF		FB	1.0				
	RW30B	TEDDD	060		TF		FB	1.0				
	HILTS	TEDDD	010		IF		FB					
	HILTS	ENL	020		TF		FB	1.0				
	HILTS	ZOLLI	030		TF		FB	1.0				
	HILTS	HILTS	040		TF		FB	1.0				
	IIU	TEDDD	010		IF		FB					
	IIU	ENL	020		TF		FB	1.0				
	IIU	ZOLLI	030		TF		FB	1.0				
	IIU	HILTS	040		TF		FB	1.0				
	IIU	IIU	050		TF		FB	1.0				

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
ENL	N382512.00	W0890932.39	N3825.200	W08909.540
IIU	N380612.47	W0853438.77	N3806.208	W08534.646
ANNII	N385252.69	W0902322.37	N3852.878	W09023.373
DSAPP	N385001.06	W0902638.98	N3850.018	W09026.650

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
TEDDD	TWO	TEDDD2.TEDDD	ONE	09/20/2012	

FUNKE	N384339.26	W0901535.58	N3843.654	W09015.593
HILTS	N380745.42	W0881930.79	N3807.757	W08819.513
KAEYE	N385323.93	W0901343.89	N3853.399	W09013.732
LENXX	N385404.00	W0901846.99	N3854.067	W09018.783
RAMKR	N384337.54	W0901136.78	N3843.626	W09011.613
TEDDD	N383211.84	W0893430.31	N3832.197	W08934.505
WOLTR	N384941.32	W0902503.02	N3849.689	W09025.050
ZOLLI	N381912.23	W0885210.73	N3819.204	W08852.179
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: ANNII **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385252.69N/0902322.37W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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: CENTRALIA VORTAC **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 382512.00N/0890932.39W **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	CENTRALIA	ENL	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	SW	ENL	VORTAC	206.96	026.96	R	1		2100	6000	4	5
2	W		WP	267.00	087.00	R		10	18000	45000	17	30
3	W	ENL	VORTAC	267.00	087.00	R	1 1/2		18000	45000	16	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (17-002823)	382407.00N/0890808.00W	1035	2C
1	200	TOWER (17-002823)	382407.00N/0890808.00W	1035	2C

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2600.

INFO ONLY

REMARKS:
PAT 2 REFERENCE FACILITY MAG VAR KCVG 04W/95.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	TURBO			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	GATEWAY			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	TURBO			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TURBO			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	TURBO			KSUS	ST LOUIS	MO (US)
DP	MEMPHIS			KMEM	MEMPHIS	TN (US)
EN ROUTE	J71					(US)
EN ROUTE	V234					(US)
EN ROUTE	V313					(US)
EN ROUTE	V4					(US)
EN ROUTE	V44					(US)
EN ROUTE	V67					(US)
EN ROUTE	V72					(US)
IAP	ILS OR LOC RWY 32R			KBLV	BELLEVILLE	IL (US)
IAP	ILS OR LOC/DME RWY 14L			KBLV	BELLEVILLE	IL (US)
IAP	ILS OR LOC/DME RWY 32L			KBLV	BELLEVILLE	IL (US)
IAP	RNAV (GPS) RWY 18			KH96	BENTON	IL (US)
IAP	ILS OR LOC RWY 30L			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	ILS OR LOC RWY 18L			KMDH	CARBONDALE/MURPHYSBORO	IL (US)
IAP	NDB RWY 18L			KMDH	CARBONDALE/MURPHYSBORO	IL (US)
IAP	VOR-A		1	KENL	CENTRALIA	IL (US)
IAP	NDB RWY 9			KFWC	FAIRFIELD	IL (US)
IAP	ILS OR LOC RWY 20			KMWA	MARION	IL (US)
IAP	NDB RWY 20			KMWA	MARION	IL (US)
IAP	ILS OR LOC RWY 23		1	KMVN	MOUNT VERNON	IL (US)
IAP	RNAV (GPS) RWY 23			KMVN	MOUNT VERNON	IL (US)
IAP	VOR RWY 23			KMVN	MOUNT VERNON	IL (US)
IAP	VOR RWY 5			KMVN	MOUNT VERNON	IL (US)
IAP	LOC RWY 11			KOLY	OLNEY/NOBLE	IL (US)
IAP	NDB RWY 18			KSLO	SALEM	IL (US)
IAP	RNAV (GPS) RWY 36			KVLA	VANDALIA	IL (US)
STAR	CENTRALIA (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	CHERI			KJVY	JEFFERSONVILLE	IN (US)

QUALITY 3 CHECKED

STAR	MOSEY	3	KCVG	COVINGTON	KY (US)
STAR	SARGO (RNAV)	2	KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	MOSEY	3	KK62	FALMOUTH	KY (US)
STAR	CHERI		KFTK	FORT KNOX	KY (US)
STAR	CHERI		KLOU	LOUISVILLE	KY (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	QBALL		KSTL	ST LOUIS	MO (US)
STAR	VANDALIA		KSTL	ST LOUIS	MO (US)
STAR	MOSEY	3	KI69	BATAVIA	OH (US)
STAR	MOSEY	3	KISZ	CINCINNATI	OH (US)
STAR	MOSEY	3	KLUK	CINCINNATI	OH (US)
STAR	MOSEY	3	KHAO	HAMILTON	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 12/31/2020

REASON FOR REVISION:
1. ADDED PAT 3.

DEVELOPED BY: **DATE:** 03/05/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZKC
ATC FACILITY: CINCINNATI APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DSAPP **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385001.06N/0902638.98W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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: FUNKE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384339.26N/0901535.58W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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: HILTS **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 380745.42N/0881930.79W **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	POCKET CITY	PXV	VORTAC	H	291.47	294.47	29.28	29.28		3000	17500
2	SAMSVILLE	SAM	VOR/DME	L	205.00	208.00		21.14		3000	17500

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

REMARKS:
SAMSVILLE (FAC 2) AND POCKET CITY (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES	1, 2		KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES	1, 2		KBLV	BELLEVILLE	IL (US)
DP	BLUES	1, 2		KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	BLUES	1, 2		KSTL	ST LOUIS	MO (US)
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BLUES	1, 2		KSUS	ST LOUIS	MO (US)
EN ROUTE	V4	1				(US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.
DELETED FAC 3, NO LONGER REQUIRED.
ADDED NDB RWY 36, CARMI, IL (KCUL)TO FIX USE.
ADDED DME AND DISTANCE TO FAC 1 AND DIST TO FAC 2.
UPDATED MRA FOR FAC 1 AND 2 FROM 2100 TO 3000. MEA FOR V4 IS 3000.

DEVELOPED BY: **DATE:** 09/02/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (GRACE NOWAK)

APPROVED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER: ZID

INFO ONLY

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KAEYE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385323.93N/0901343.89W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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:** 04/10/2012 **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: LENXX **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385404.00N/0901846.99W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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:** 04/10/2012 **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: LOUISVILLE VORTAC **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380612.47N/0853438.77W **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	LOUISVILLE	IIU	VORTAC	H							45000

FIX RESTRICTIONS:
SPECIAL RNAV (GPS) Y RWY 17L, KSDF, LOUISVILLE, KY
VOR UNUSABLE 285 - 093 BELOW 10000.

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	IIU	VORTAC	120.00	300.00	R	1		3000	6000	4	5
2	SE		WP	120.00	300.00	R		4	3000	6000	5	6
3	SE		WP	120.00	300.00	R		10	6000	6000	15	15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-000719)	380853.00N/0852942.00W	1089	5D
1	310	TOWER (21-000115)	381135.00N/0853114.00W	1229	2C
2	200	TOWER (21-000719)	380853.00N/0852942.00W	1089	5D
2	310	TOWER (21-000115)	381135.00N/0853114.00W	1229	2C
3	200	TOWER (21-000420)	380349.00N/0854352.00W	1249	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 17L	KSDF	LOUISVILLE	KY (US)
2	RNAV (GPS) Y RWY 17L	KSDF	LOUISVILLE	KY (US)
2	RNAV (RNP) Z RWY 17L	KSDF	LOUISVILLE	KY (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 3 ATC REQUEST, LOST COMM HOLDING FOR DLAMP (RNAV) AND MAUDD (RNAV) STARS

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DAWNN			KEYE	INDIANAPOLIS	IN (US)
DP	DAWNN			KHFY	INDIANAPOLIS	IN (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	DAWNN			KMQJ	INDIANAPOLIS	IN (US)
DP	DAWNN			KTYQ	INDIANAPOLIS	IN (US)
DP	DAWNN			KUMP	INDIANAPOLIS	IN (US)
DP	DAWNN			KGEZ	SHELBYVILLE	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	CHCLL (RNAV)			KCVG	COVINGTON	KY (US)
DP	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	TEDDD			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	CHATANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	J112					(US)
EN ROUTE	J39					(US)
EN ROUTE	J526					(US)
EN ROUTE	J78					(US)
EN ROUTE	J8					(US)
EN ROUTE	J89					(US)
EN ROUTE	J99					(US)
EN ROUTE	T213					(US)
EN ROUTE	V171					(US)
EN ROUTE	V310					(US)
EN ROUTE	V4					(US)
EN ROUTE	V5					(US)
EN ROUTE	V51					(US)
EN ROUTE	V512					(US)
EN ROUTE	V513					(US)

INFO ONLY

QUALITY 3 CHECKED

EN ROUTE	V53				(US)
IAP	LOC/DME RWY 30		KDVK	DANVILLE	KY (US)
IAP	VOR-A		KEKX	ELIZABETHTOWN	KY (US)
IAP	ILS OR LOC RWY 18	1	KFTK	FORT KNOX	KY (US)
IAP	RNAV (GPS) RWY 18		KFTK	FORT KNOX	KY (US)
IAP	RNAV (GPS) RWY 24		KLOU	LOUISVILLE	KY (US)
IAP	VOR RWY 24	1	KLOU	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 17L	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 17R		KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35L		KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35R		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II, III)		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (SA CAT I)		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II, III)		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)		KSDF	LOUISVILLE	KY (US)
IAP	LOC RWY 29		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17L	2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17L	2	KSDF	LOUISVILLE	KY (US)
STAR	DECEE		KIND	INDIANAPOLIS	IN (US)
STAR	CHERI		KJVY	JEFFERSONVILLE	IN (US)
STAR	DARBY		KJVY	JEFFERSONVILLE	IN (US)
STAR	REDSTONE		KJVY	JEFFERSONVILLE	IN (US)
STAR	SARGO (RNAV)		KCVG	COVINGTON	KY (US)
STAR	GENUS		KK62	FALMOUTH	KY (US)
STAR	CHERI		KFTK	FORT KNOX	KY (US)
STAR	CLEGG		KLEX	LEXINGTON	KY (US)
STAR	CHERI		KLOU	LOUISVILLE	KY (US)
STAR	DARBY		KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE		KLOU	LOUISVILLE	KY (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DARBY		KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	GENUS		KI69	BATAVIA	OH (US)
STAR	GENUS		KLUK	CINCINNATI	OH (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	GAILL (RNAV)		KCMH	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KLCK	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KOSU	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KTZR	COLUMBUS	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	GENUS		KHAO	HAMILTON	OH (US)
STAR	GAILL (RNAV)		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	GAILL		KVTA	NEWARK	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)
STAR	GUITR		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	GUITR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	GUITR		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	GUITR		KMQY	SMYRNA	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
ADDED PAT 3
UPDATED FIX USE
ADDED REASON FOR PAT 3 REMARK

DEVELOPED BY: **DATE:** 12/04/2012 **OFFICE:** AJV-352 **NAME:** CHRISTOPHER COX

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

SIGNATURE:

INFO ONLY

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF APP CON/ATCT
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RAMKR **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 384337.54N/0901136.78W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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:** 04/10/2012 **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: TEDDD **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 383211.84N/0893430.31W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TEDDD (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:** 04/10/2012 **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: WOLTR **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384941.32N/0902503.02W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (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: ZOLLI **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 381912.23N/0885210.73W **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	CENTRALIA	ENL	VORTAC	H	109.60	113.60	14.91	14.91		3000	17500
2	MARION	MWA	VOR/DME	L	007.18	011.18	34.57	34.57		4000	17500

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

REMARKS:
CENTRALIA (FAC 1) AND MARION (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)
EN ROUTE	V-4	1, 2				(US)
EN ROUTE	V429	1, 2				IL (US)
IAP	RNAV (GPS) RWY 18			KH96	BENTON	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED FIX TYPE WP.
2. CHANGED FAC 2 MRA FROM 2300 TO 4000.
3. ADDED FACILITIES USED TO ESTABLISH FIX COORDINATES NOTE.
4. UPDATED FIX USE.
5. UPDATED REQUIRED CHARTING.

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

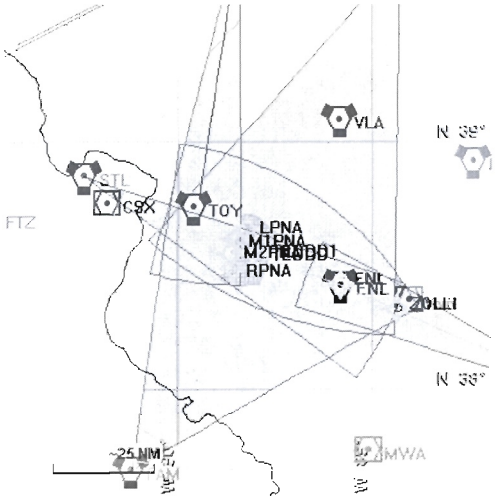
APPROVED BY: **DATE:** 08/27/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CHI
ARTCC: ZKC
ATC FACILITY:
OTHER:

INFO ONLY

QUALITY 3 CHECKED



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/18/2012 8:36:39 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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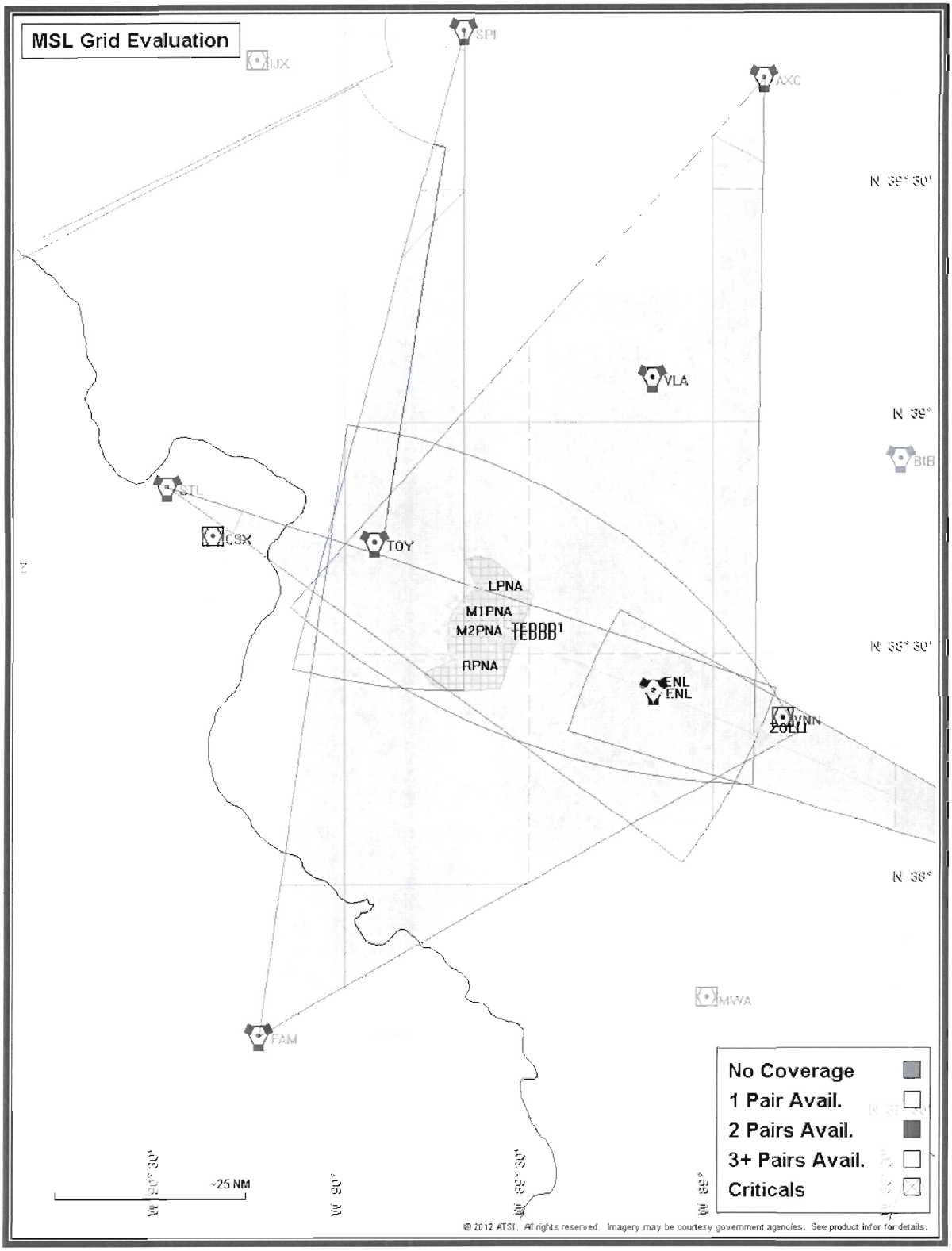
MSL Grid Evaluation
SPI
IUX
AXC
VLA
BIB
STL
C9X
TOY
LPNA
M1PNA
M2PNA
TEBBB1
RPNA
ENL
ENL
WNN
20LL
MWA
FAM
~25 NM
No Coverage
1 Pair Avail.
2 Pairs Avail.
3+ Pairs Avail.
Criticals
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DME/DME Grid Analysis

Return To Summary

Coverage Exists

Settings:

Polygon Grid Definition:

1	Lat: N 38° 38' 32.12" Lon: W 89° 38' 18.74"	21	Lat: N 38° 26' 6.40" Lon: W 89° 45' 47.60"
2	Lat: N 38° 42' 9.44" Lon: W 89° 40' 29.37"	22	Lat: N 38° 26' 26.30" Lon: W 89° 46' 14.99"
3	Lat: N 38° 42' 20.30" Lon: W 89° 39' 54.60"	23	Lat: N 38° 26' 48.69" Lon: W 89° 46' 39.10"
4	Lat: N 38° 42' 27.77" Lon: W 89° 39' 18.40"	24	Lat: N 38° 27' 13.22" Lon: W 89° 46' 59.56"
5	Lat: N 38° 42' 31.71" Lon: W 89° 38' 41.31"	25	Lat: N 38° 27' 29.95" Lon: W 89° 47' 10.64"
6	Lat: N 38° 42' 32.08" Lon: W 89° 38' 3.87"	26	Lat: N 38° 29' 12.41" Lon: W 89° 42' 34.23"
7	Lat: N 38° 42' 28.87" Lon: W 89° 37' 26.66"	27	Lat: N 38° 29' 12.41" Lon: W 89° 42' 34.23"
8	Lat: N 38° 42' 22.13" Lon: W 89° 36' 50.23"	28	Lat: N 38° 30' 0.07" Lon: W 89° 42' 58.49"
9	Lat: N 38° 42' 11.95" Lon: W 89° 36' 15.12"	29	Lat: N 38° 30' 49.70" Lon: W 89° 43' 15.19"
10	Lat: N 38° 41' 58.50" Lon: W 89° 35' 41.86"	30	Lat: N 38° 31' 40.55" Lon: W 89° 43' 24.07"
11	Lat: N 38° 41' 41.96" Lon: W 89° 35' 10.94"	31	Lat: N 38° 32' 31.88" Lon: W 89° 43' 25.00"
12	Lat: N 38° 41' 29.82" Lon: W 89° 34' 52.52"	32	Lat: N 38° 33' 22.92" Lon: W 89° 43' 17.96"
13	Lat: N 38° 37' 36.08" Lon: W 89° 29' 21.71"	33	Lat: N 38° 34' 12.90" Lon: W 89° 43' 3.04"
14	Lat: N 38° 25' 30.82" Lon: W 89° 34' 48.57"	34	Lat: N 38° 35' 1.07" Lon: W 89° 42' 40.47"
15	Lat: N 38° 25' 12.43" Lon: W 89° 42' 19.73"	35	Lat: N 38° 35' 46.73" Lon: W 89° 42' 10.58"
16	Lat: N 38° 25' 12.83" Lon: W 89° 42' 57.01"	36	Lat: N 38° 36' 29.19" Lon: W 89° 41' 33.81"
17	Lat: N 38° 25' 16.80" Lon: W 89° 43' 33.96"	37	Lat: N 38° 37' 7.80" Lon: W 89° 40' 50.70"

DME/DME Grid Analysis (Continued.)

Return To Summary

Coverage Exists

Settings:

Polygon Grid Definition:

18	Lat: N 38° 25' 24.27" Lon: W 89° 44' 10.01"	**38**	Lat: N 38° 37' 42.01" Lon: W 89° 40' 1.91"
19	Lat: N 38° 25' 35.15" Lon: W 89° 44' 44.64"	**39**	Lat: N 38° 38' 11.28" Lon: W 89° 39' 8.15"
20	Lat: N 38° 25' 49.26" Lon: W 89° 45' 17.34"	**40**	Lat: N 38° 38' 32.12" Lon: W 89° 38' 18.74"

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 TEDDD ENL

DME/DME Grid Analysis (Continued.)

Return To Summary

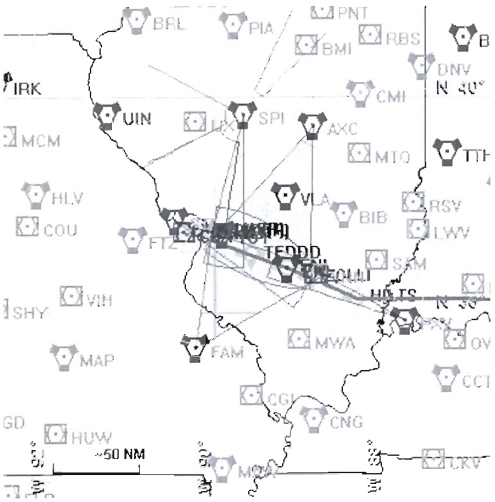
Maximum Gap: 0.0 NM

Maximum Critical Gap: 0.0 NM

	AGL Altitudes
Min Cell Altitude	9,471.8 Ft.
Max Cell Altitude	9,603.0 Ft.
Mean Cell Altitude	9,541.2 Ft.
Std. Dev. Cell Altitude	36.0 Ft.

Statistics based only on passing cells.

Most Used DMEs: TOY (167), ENL (167), FAM (167), AXC (167), CSX (138), STL (127), VLA (92), VNN (71), and SPI (41).



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	2/21/2012 5:16:50 PM
Input File:	TEDDD RW11 IIU 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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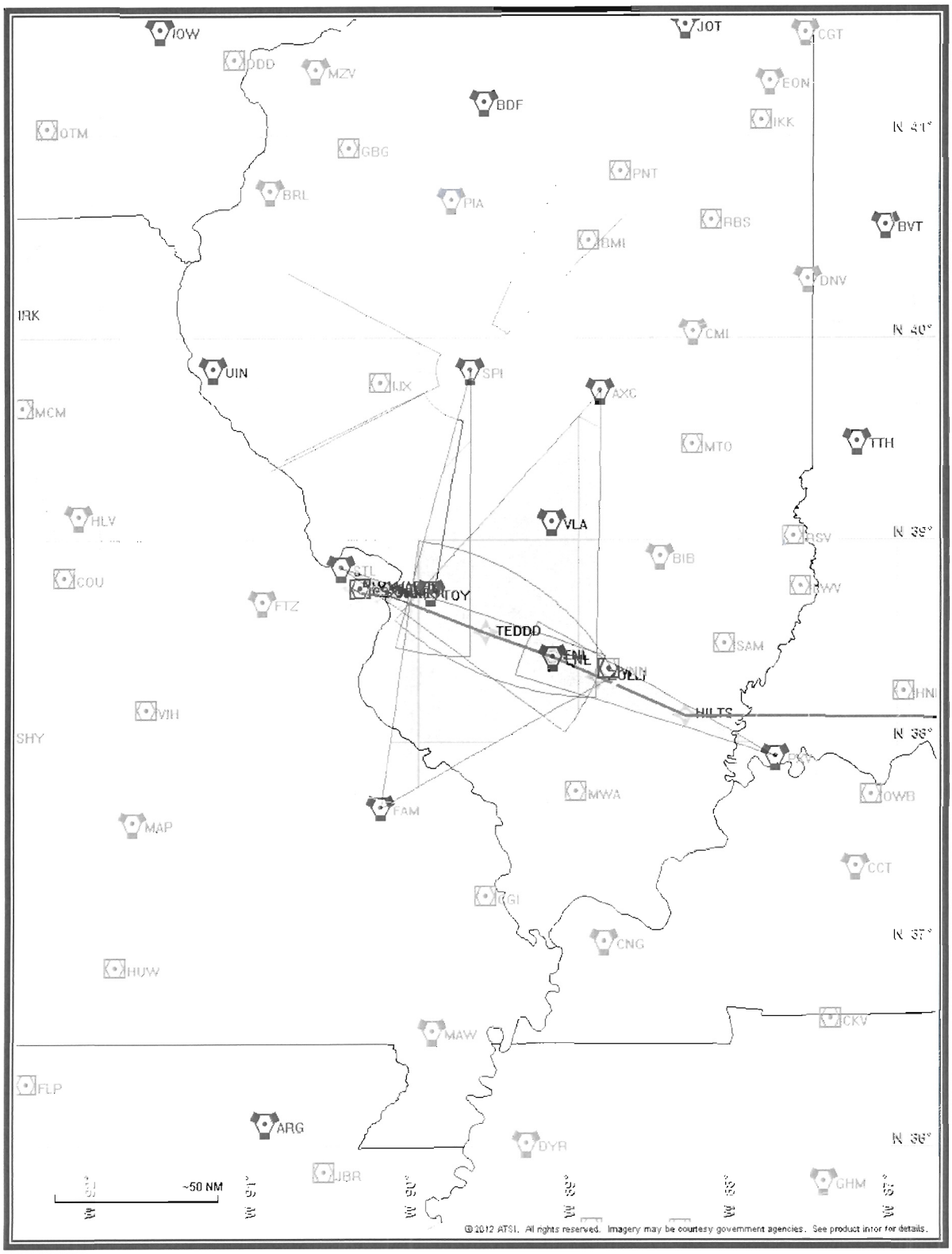
IOW
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SHY
MWA
OWB
FAM
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RGI
CNG
HUW
CKV
MAW
FLP
ARG
DYR
JBR
GHM
~50 NM
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Flight Plan

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' 12.37" W 90° 21' 46.18"	1120.0	VNAV	145.0	Fly Over	DF
FUNKE	WP	N 38° 43' 39.26" W 90° 15' 35.58"	2500.0	VNAV	180.0	Fly By	TF
RAMKR	WP	N 38° 43' 37.54" W 90° 11' 36.78"	3122.9	VNAV	180.0	Fly By	TF
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	9370.7	VNAV	180.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	13533.3	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	16515.2	VNAV	210.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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:

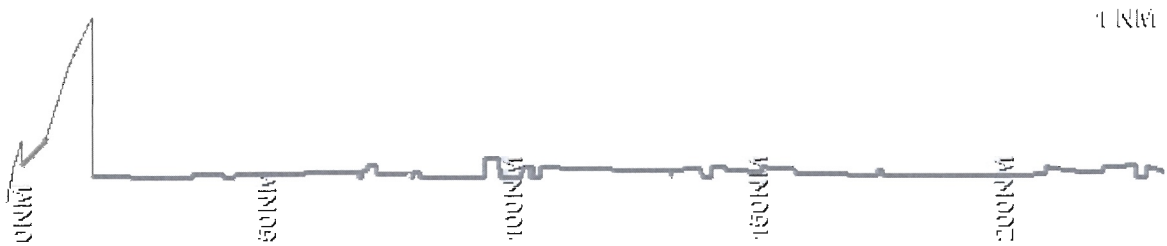
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 18

Maximum DME Error: 0.936 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, SPI, ENL, FAM, AXC, VNN, PXV, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	1.254	Enabled	7.9 %	6.9 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	1.254	Enabled	3.3 %	2.1 %
3	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H + ESV	User	NO	1.247	Enabled	4.0 %	4.1 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.936	Enabled	8.3 %	8.7 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H + ESV	User	NO	0.936	Enabled	7.3 %	7.7 %
6	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.936	Enabled	14.8 %	15.5 %
7	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H + ESV	User	NO	0.936	Enabled	14.6 %	15.2 %
8	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.936	Enabled	0.9 %	1.0 %
9	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.936	Enabled	18.1 %	18.9 %
10	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.936	Enabled	9.1 %	9.4 %
11	SAM	N 38° 29' 6.68" W 88° 5' 8.93"	L	Database	NO	0.936	Enabled	3.5 %	3.6 %
12	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H + ESV	User	NO	0.936	Enabled	21.6 %	22.5 %
13	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	0.936	Enabled	18.5 %	19.3 %
14	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.936	Enabled	23.4 %	24.4 %
15	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.936	Enabled	13.2 %	13.7 %
16	EWO	N 37° 37' 54.52" W 85° 40' 33.16"	L	Database	NO	0.936	Enabled	8.2 %	8.6 %
17	FLM	N 38° 38' 58.16" W 84° 18' 38.27"	H	Database	NO	0.936	Enabled	6.1 %	6.3 %
18	ABB	N 38° 35' 19.82" W 85° 38' 9.57"	L	Database	NO	0.936	Enabled	1.5 %	1.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.5	STL	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
2.5	STL	FTZ	CSX			
7.4	STL	FTZ	CSX			
10.4	STL	FTZ	CSX	TOY	SPI	
20.5	ENL	FAM	CSX	TOY	SPI	STL
30.5	ENL	FAM	STL	TOY	AXC	CSX
41.7	ENL	FAM	STL	TOY	AXC	VNN
51.8	ENL	FAM	STL	VNN	AXC	TOY
62.4	SPI	MWA	CSX	VNN	AXC	FAM
77.5	PXV	MWA	CSX	VNN	SAM	AXC
95.0	FAM	MWA	AXC	VNN	SAM	ENL
105.2	ENL	TTH	PXV	VNN	SAM	BWG
142.1	ENL	TTH	PXV	BWG	SAM	IIU
153.9	IIU	TTH	PXV	BWG	FLM	ENL
207.6	IIU	ABB	EWO	BWG	FLM	PXV
221.7	IIU	ABB	EWO	PXV	FLM	BWG

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 35.83" W 90° 24' 35.55"	N 38° 44' 5.41" W 90° 21' 13.44"	3.1
	VOR: CSX	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.41" W 90° 21' 13.44"	
	VOR: FTZ	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.41" W 90° 21' 13.44"	
	VOR: STL	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.41" W 90° 21' 13.44"	
	VOR: TOY	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.41" W 90° 21' 13.44"	
2	N 38° 43' 38.90" W 90° 15' 1.93"	N 38° 41' 13.32" W 90° 3' 44.04"	9.3
	VOR: CSX	Available from N 38° 43' 38.90" W 90° 15' 1.93" to N 38° 41' 13.32" W 90° 3' 44.04"	
	VOR: FTZ	Available from N 38° 43' 38.90" W 90° 15' 1.93" to N 38° 42' 17.56" W 90° 7' 14.24"	
	VOR: STL	Available from N 38° 43' 38.90" W 90° 15' 1.93" to N 38° 41' 13.32" W 90° 3' 44.04"	
	VOR: TOY	Available from N 38° 43' 38.90" W 90° 15' 1.93" to N 38° 41' 13.32" W 90° 3' 44.04"	

DME/DME (Continued.)

Return To Summary

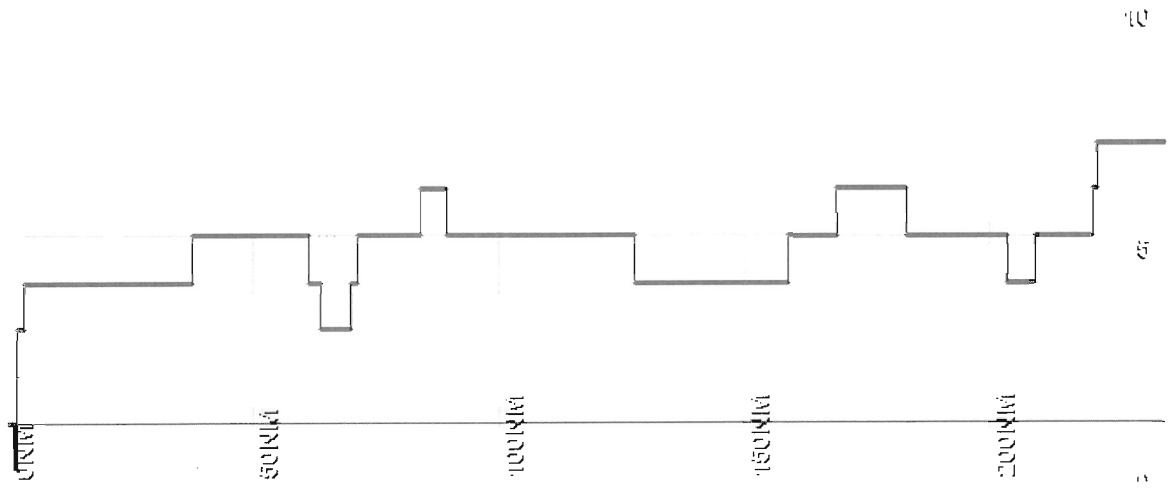
User DMEs

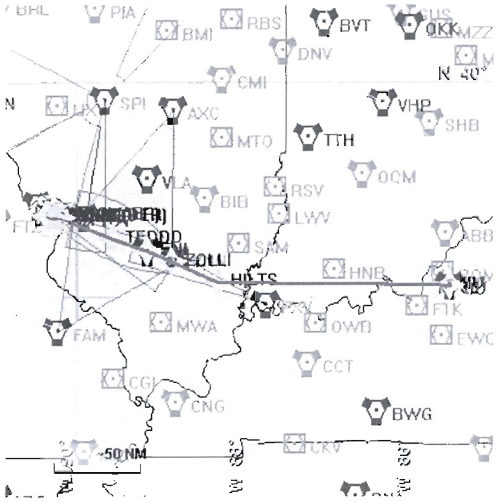
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	586.3	112.70	SPI	Used
		Restriction: Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°			Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.		
		Restriction: Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°			Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°			Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°			Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.		

Radar Analysis

Return To Summary

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





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Version:	2.35
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Input File:	TEDDD RW12L IIU 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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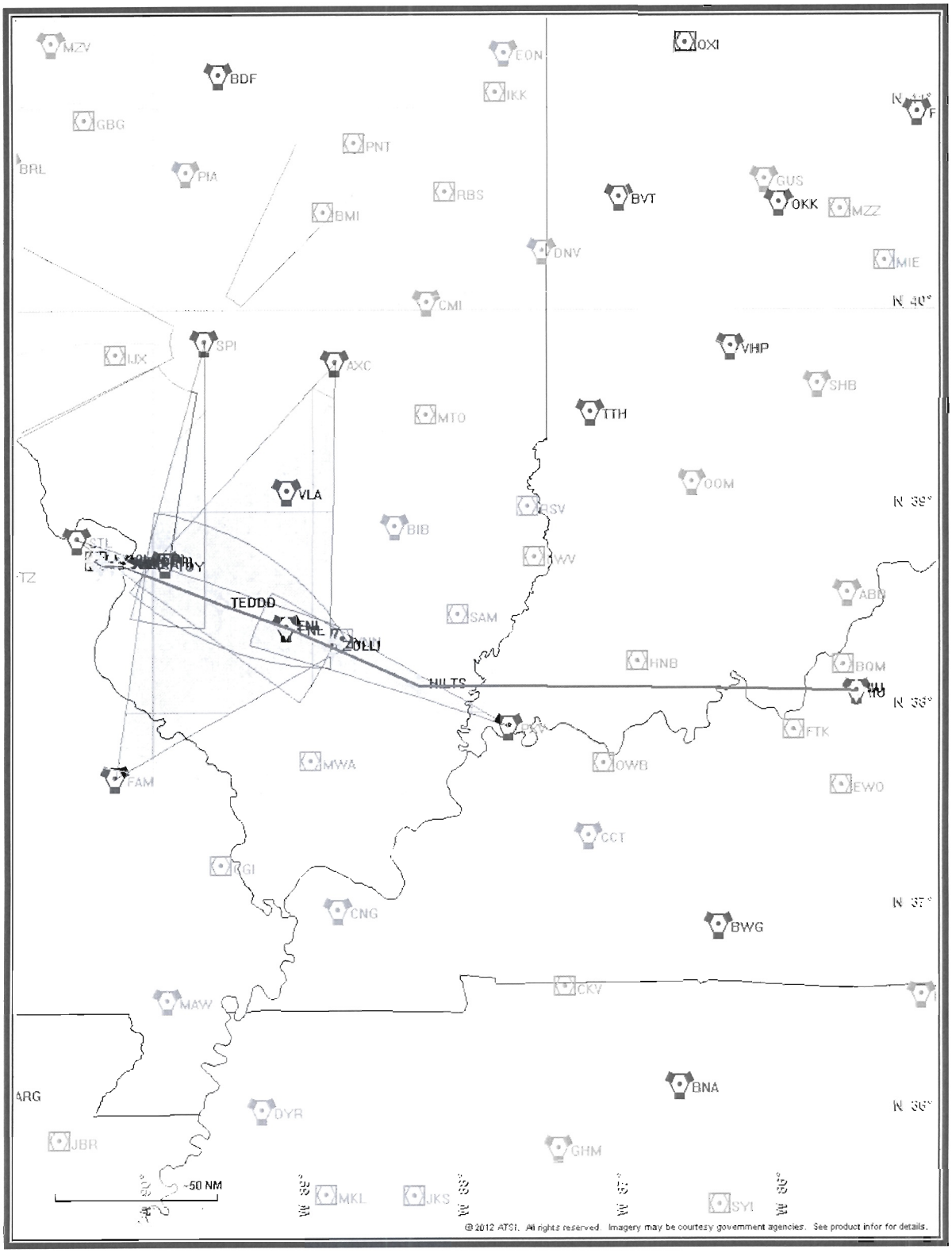
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OWB
FAM
EWO
CCT
CNG
BWG
CKV
MAW
BNA
DYR
JBR
GHM
50 NM
MKL
JKS
SYI
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Flight Plan

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' 45.97" W 90° 19' 15.62"	1120.0	VNAV	145.0	Fly Over	DF
FUNKE	WP	N 38° 43' 39.26" W 90° 15' 35.58"	2500.0	VNAV	180.0	Fly By	TF
RAMKR	WP	N 38° 43' 37.54" W 90° 11' 36.78"	3122.9	VNAV	180.0	Fly By	TF
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	9370.7	VNAV	180.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	13533.3	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	16515.2	VNAV	210.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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:

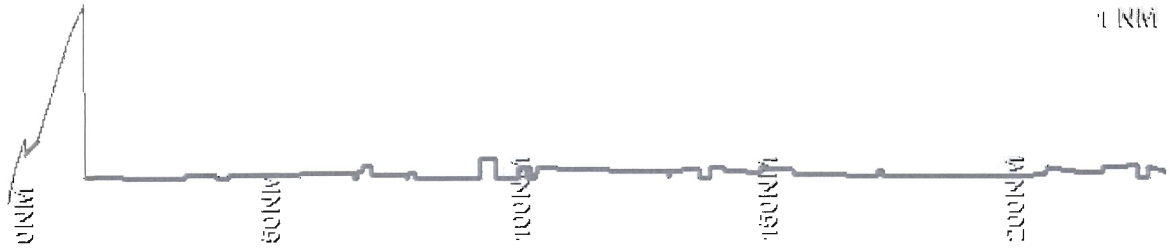
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 18

Maximum DME Error: 0.993 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, SPI, ENL, FAM, AXC, VNN, PXV, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	1.172	Enabled	6.4 %	6.0 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	1.172	Enabled	1.7 %	1.1 %
3	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H + ESV	User	NO	1.304	Enabled	4.0 %	4.1 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.993	Enabled	8.4 %	8.8 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H + ESV	User	NO	0.993	Enabled	7.3 %	7.7 %
6	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.993	Enabled	15.0 %	15.6 %
7	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H + ESV	User	NO	0.993	Enabled	14.8 %	15.4 %
8	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.993	Enabled	0.9 %	1.0 %
9	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.993	Enabled	18.3 %	19.1 %
10	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.993	Enabled	9.2 %	9.6 %
11	SAM	N 38° 29' 6.68" W 88° 5' 8.93"	L	Database	NO	0.993	Enabled	3.5 %	3.7 %
12	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H + ESV	User	NO	0.993	Enabled	21.8 %	22.7 %
13	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	0.993	Enabled	18.6 %	19.4 %
14	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.993	Enabled	23.6 %	24.6 %
15	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.993	Enabled	13.2 %	13.8 %
16	EWO	N 37° 37' 54.52" W 85° 40' 33.16"	L	Database	NO	0.993	Enabled	8.3 %	8.7 %
17	FLM	N 38° 38' 58.16" W 84° 18' 38.27"	H	Database	NO	0.993	Enabled	6.1 %	6.4 %
18	ABB	N 38° 35' 19.82" W 85° 38' 9.57"	L	Database	NO	0.993	Enabled	1.5 %	1.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.5		

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
2.5	STL	FTZ	CSX			
5.4	STL	FTZ	CSX			
8.3	STL	FTZ	CSX	TOY	SPI	
18.4	ENL	FAM	CSX	TOY	SPI	STL
28.4	ENL	FAM	STL	TOY	AXC	CSX
39.7	ENL	FAM	STL	TOY	AXC	VNN
49.7	ENL	FAM	STL	VNN	AXC	TOY
60.4	SPI	MWA	CSX	VNN	AXC	FAM
75.5	PXV	MWA	CSX	VNN	SAM	AXC
93.0	FAM	MWA	AXC	VNN	SAM	ENL
103.1	ENL	TTH	PXV	VNN	SAM	BWG
140.0	ENL	TTH	PXV	BWG	SAM	IIU
151.8	IIU	TTH	PXV	BWG	FLM	ENL
205.5	IIU	ABB	EWO	BWG	FLM	PXV
219.6	IIU	ABB	EWO	PXV	FLM	BWG

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 6.41" W 90° 21' 58.66"	N 38° 43' 37.87" W 90° 18' 20.88"	3.3
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.87" W 90° 18' 20.88"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.87" W 90° 18' 20.88"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.87" W 90° 18' 20.88"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.87" W 90° 18' 20.88"	
2	N 38° 43' 39.12" W 90° 15' 4.10"	N 38° 41' 12.91" W 90° 3' 42.69"	9.3
	VOR: CSX	Available from N 38° 43' 39.12" W 90° 15' 4.10" to N 38° 41' 12.91" W 90° 3' 42.69"	
	VOR: FTZ	Available from N 38° 43' 39.12" W 90° 15' 4.10" to N 38° 42' 16.95" W 90° 7' 12.21"	
	VOR: STL	Available from N 38° 43' 39.12" W 90° 15' 4.10" to N 38° 41' 12.91" W 90° 3' 42.69"	
	VOR: TOY	Available from N 38° 43' 39.12" W 90° 15' 4.10" to N 38° 41' 12.91" W 90° 3' 42.69"	

DME/DME (Continued.)

Return To Summary

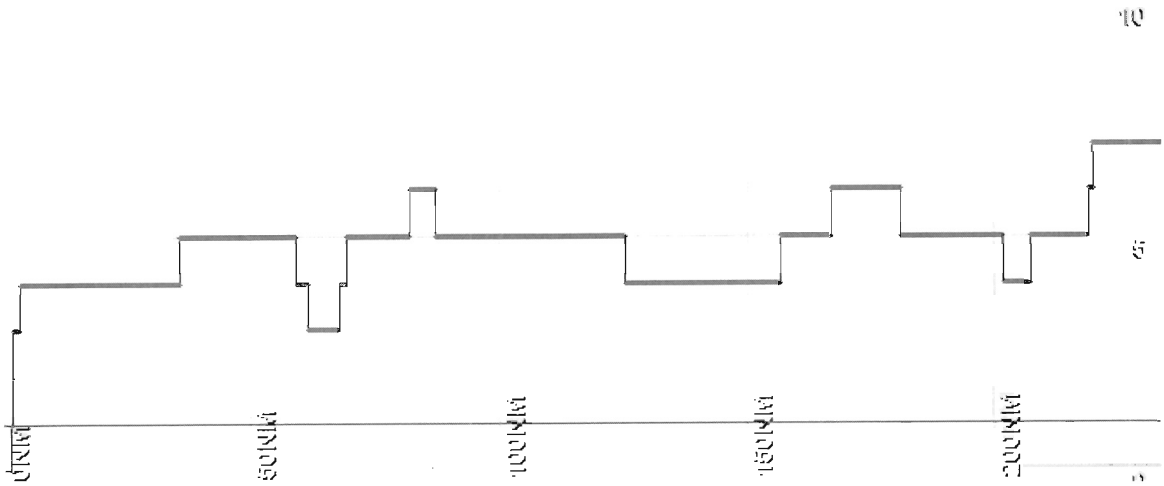
User DMEs

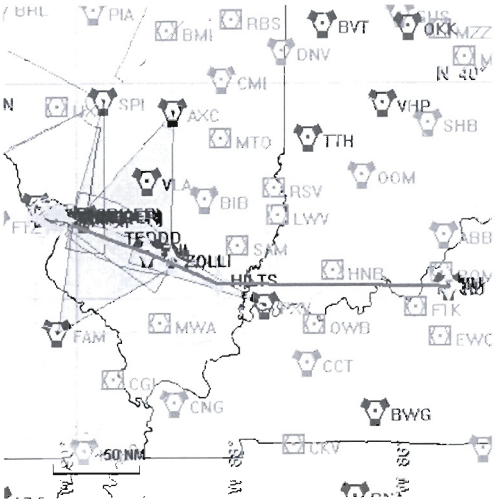
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	586.3	112.70	SPI	Used
		Restriction: Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°			Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.		
		Restriction: Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°			Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°			Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°			Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.		

Radar Analysis

Return To Summary

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





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Version:	2.35
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Input File:	TEDDD RW12R IIU 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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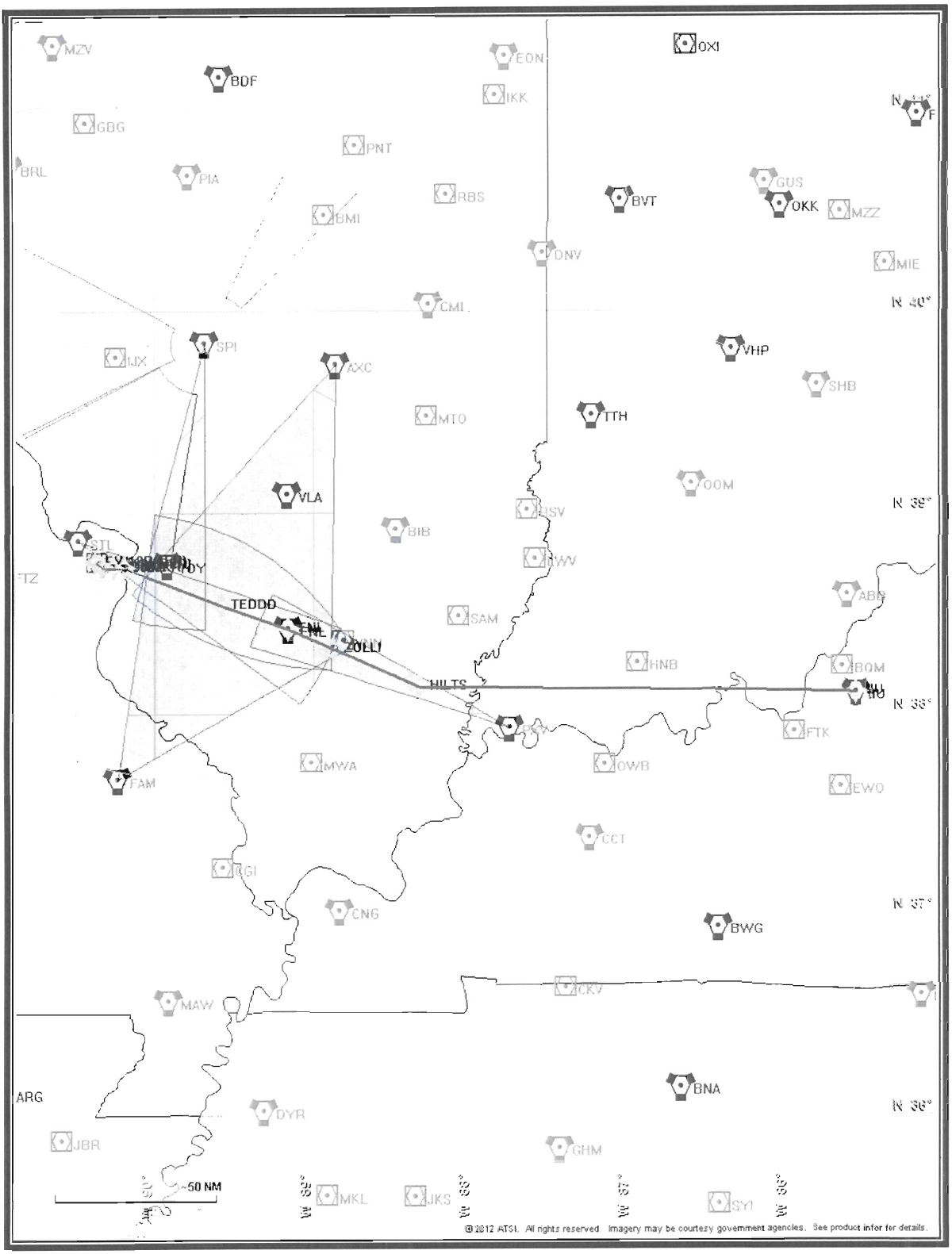
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ARG
DYR
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GHM
50 NM
MKL
JKS
SYI
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Flight Plan

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' 41.81" W 90° 19' 37.96"	1120.0	VNAV	145.0	Fly Over	DF
FUNKE	WP	N 38° 43' 39.26" W 90° 15' 35.58"	2500.0	VNAV	180.0	Fly By	TF
RAMKR	WP	N 38° 43' 37.54" W 90° 11' 36.78"	3122.9	VNAV	180.0	Fly By	TF
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	9370.7	VNAV	180.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	13533.3	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	16515.2	VNAV	210.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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:

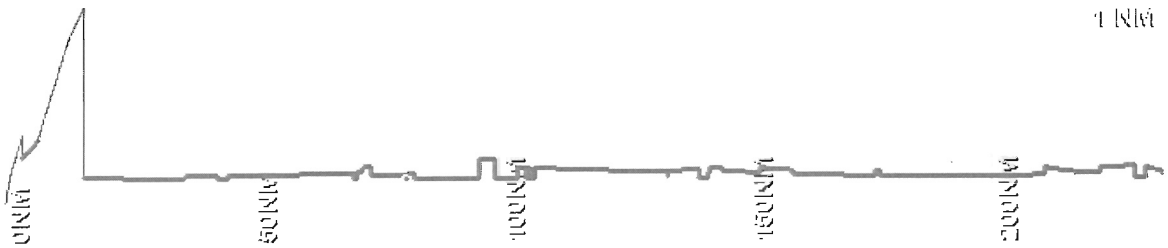
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 18

Maximum DME Error: 0.982 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, SPI, ENL, FAM, AXC, VNN, PXV, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	1.201	Enabled	6.7 %	6.1 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	1.201	Enabled	2.0 %	1.3 %
3	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H + ESV	User	NO	1.293	Enabled	4.0 %	4.1 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.982	Enabled	8.4 %	8.8 %
5	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H + ESV	User	NO	0.982	Enabled	7.3 %	7.7 %
6	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.982	Enabled	14.9 %	15.6 %
7	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H + ESV	User	NO	0.982	Enabled	14.7 %	15.4 %
8	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.982	Enabled	0.9 %	0.9 %
9	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.982	Enabled	18.3 %	19.1 %
10	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.982	Enabled	9.2 %	9.6 %
11	SAM	N 38° 29' 6.68" W 88° 5' 8.93"	L	Database	NO	0.982	Enabled	3.5 %	3.6 %
12	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H + ESV	User	NO	0.982	Enabled	21.7 %	22.7 %
13	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	0.982	Enabled	18.6 %	19.4 %
14	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.982	Enabled	23.5 %	24.6 %
15	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.982	Enabled	13.2 %	13.8 %
16	EWO	N 37° 37' 54.52" W 85° 40' 33.16"	L	Database	NO	0.982	Enabled	8.3 %	8.6 %
17	FLM	N 38° 38' 58.16" W 84° 18' 38.27"	H	Database	NO	0.982	Enabled	6.1 %	6.4 %
18	ABB	N 38° 35' 19.82" W 85° 38' 9.57"	L	Database	NO	0.982	Enabled	1.5 %	1.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.8		

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
2.8	STL	FTZ	CSX			
6.0	STL	FTZ	CSX			
8.9	STL	FTZ	CSX	TOY	SPI	
19.0	ENL	FAM	CSX	TOY	SPI	STL
29.0	ENL	FAM	STL	TOY	AXC	CSX
40.2	ENL	FAM	STL	TOY	AXC	VNN
50.3	ENL	FAM	STL	VNN	AXC	TOY
61.0	SPI	MWA	CSX	VNN	AXC	FAM
76.0	PXV	MWA	CSX	VNN	SAM	AXC
93.5	FAM	MWA	AXC	VNN	SAM	ENL
103.7	ENL	TTH	PXV	VNN	SAM	BWG
140.6	ENL	TTH	PXV	BWG	SAM	IIU
152.4	IIU	TTH	PXV	BWG	FLM	ENL
206.1	IIU	ABB	EWO	BWG	FLM	PXV
220.2	IIU	ABB	EWO	PXV	FLM	BWG

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 11.59" W 90° 22' 39.98"	N 38° 43' 34.33" W 90° 18' 50.18"	3.5
	VOR: CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.33" W 90° 18' 50.18"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.33" W 90° 18' 50.18"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.33" W 90° 18' 50.18"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.33" W 90° 18' 50.18"	
2	N 38° 43' 39.12" W 90° 15' 2.83"	N 38° 41' 13.60" W 90° 3' 44.96"	9.3
	VOR: CSX	Available from N 38° 43' 39.12" W 90° 15' 2.83" to N 38° 41' 13.60" W 90° 3' 44.96"	
	VOR: FTZ	Available from N 38° 43' 39.12" W 90° 15' 2.83" to N 38° 42' 17.47" W 90° 7' 13.91"	
	VOR: STL	Available from N 38° 43' 39.12" W 90° 15' 2.83" to N 38° 41' 13.60" W 90° 3' 44.96"	
	VOR: TOY	Available from N 38° 43' 39.12" W 90° 15' 2.83" to N 38° 41' 13.60" W 90° 3' 44.96"	

DME/DME (Continued.)

Return To Summary

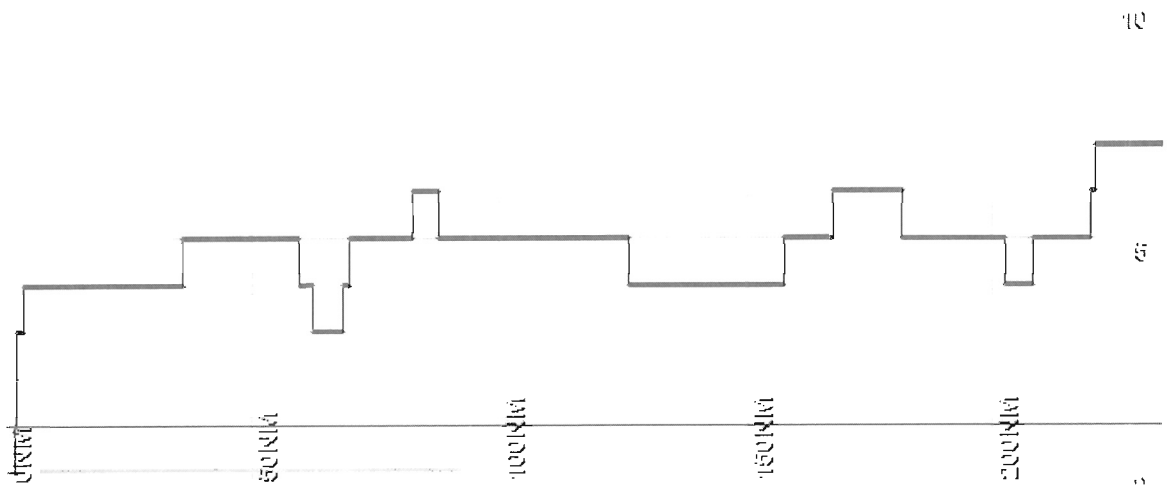
User DMEs

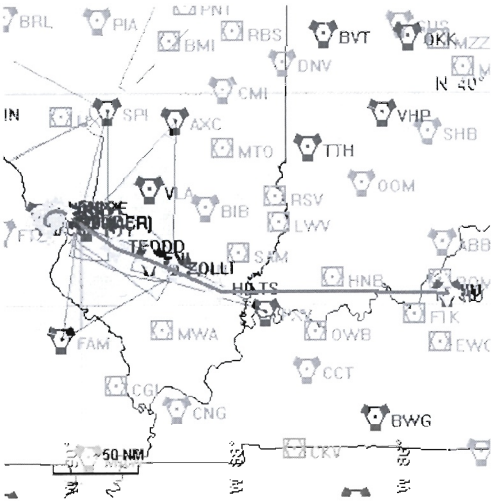
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	586.3	112.70	SPI	Used
		Restriction: Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°			Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.		
		Restriction: Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°			Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°			Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°			Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.		

Radar Analysis

Return To Summary

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





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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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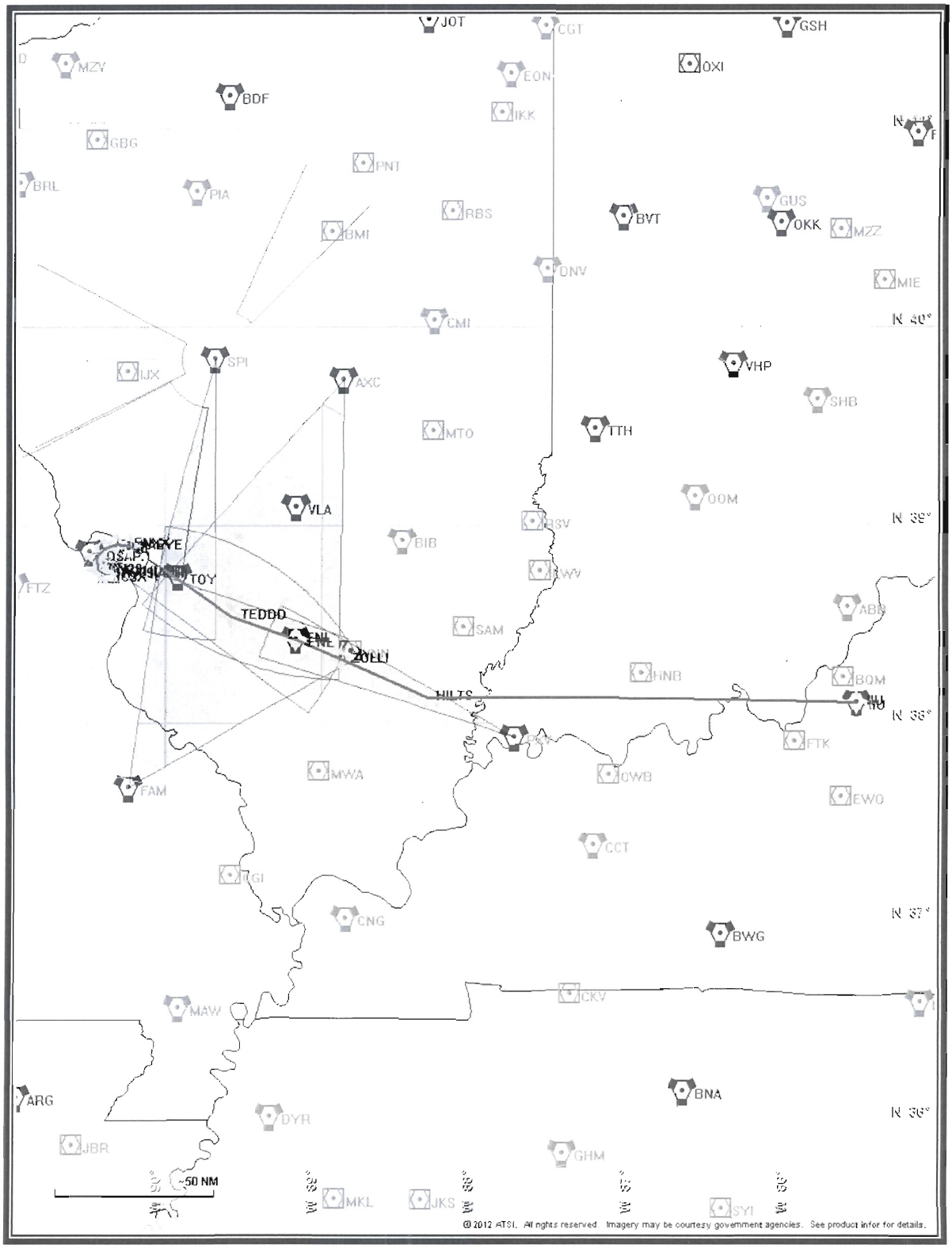
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TEDDD
ZOELI
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HNB
BQM
HILTS
IN 38°
FTK
MWA
OWB
FAM
EWO
CCT
CNG
IN 37°
BWG
CKV
MAW
ARG
BNA
DYR
IN 36°
JBR
GHM
~50 NM
MKL
JKS
SYI
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Flight Plan

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' 7.93" W 90° 25' 40.75"	1120.0	VNAV	145.0	Fly Over	DF
DSAPP	WP	N 38° 50' 1.06" W 90° 26' 38.98"	2500.0	VNAV	180.0	Fly By	TF
ANNII	WP	N 38° 52' 52.69" W 90° 23' 22.37"	3267.3	VNAV	180.0	Fly By	TF
LENXX	WP	N 38° 54' 4.00" W 90° 18' 46.99"	4022.3	VNAV	180.0	Fly By	TF
KAEYE	WP	N 38° 53' 23.93" W 90° 13' 43.89"	4822.3	VNAV	180.0	Fly By	TF
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	12282.2	VNAV	210.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	16444.9	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	18000.0	VNAV	240.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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 LENXX 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:

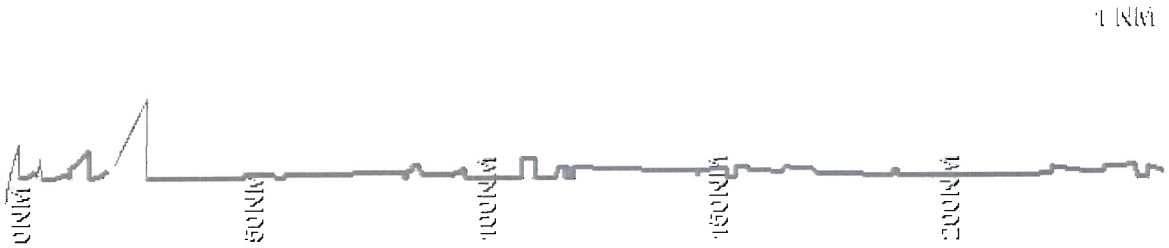
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 18

Maximum DME Error: 0.606 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, TOY, CSX, SPI, FAM, AXC, ENL, VNN, PXV, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	0.628	Enabled	13.9 %	13.0 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.734	Enabled	3.6 %	2.3 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.846	Enabled	12.0 %	10.9 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.833	Enabled	3.7 %	3.7 %
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H + ESV	User	NO	0.635	Enabled	2.4 %	2.5 %
6	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H + ESV	User	NO	0.606	Enabled	8.4 %	8.8 %
7	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.606	Enabled	14.4 %	15.0 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H + ESV	User	NO	0.606	Enabled	13.9 %	14.5 %
9	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.606	Enabled	17.0 %	17.7 %
10	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	1.035	Enabled	8.7 %	9.1 %
11	SAM	N 38° 29' 6.68" W 88° 5' 8.93"	L	Database	NO	0.606	Enabled	3.1 %	3.3 %
12	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H + ESV	User	NO	0.606	Enabled	20.2 %	21.0 %
13	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	0.606	Enabled	17.6 %	18.3 %
14	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.606	Enabled	22.2 %	23.1 %
15	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.606	Enabled	12.5 %	13.0 %
16	EWO	N 37° 37' 54.52" W 85° 40' 33.16"	L	Database	NO	0.606	Enabled	7.8 %	8.1 %
17	FLM	N 38° 38' 58.16" W 84° 18' 38.27"	H	Database	NO	0.606	Enabled	5.7 %	6.0 %
18	ABB	N 38° 35' 19.82" W 85° 38' 9.57"	L	Database	NO	0.606	Enabled	1.5 %	1.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.5	STL	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
2.5	STL	FTZ	CSX	TOY		
6.2	STL	FTZ	CSX	TOY		
10.1	STL	FTZ	CSX	TOY		
13.5	STL	FTZ	CSX	TOY		
17.5	STL	FTZ	CSX	TOY		
27.5	STL	SPI	CSX	FAM	AXC	ENL
37.6	STL	ENL	CSX	FAM	AXC	TOY
54.9	STL	ENL	TOY	FAM	AXC	VNN
65.4	STL	ENL	VNN	FAM	AXC	SPI
76.0	SPI	CSX	VNN	MWA	AXC	FAM
91.0	PXV	CSX	VNN	MWA	STL	FAM
108.5	SAM	AXC	VNN	MWA	FAM	ENL
118.7	SAM	TTH	VNN	PXV	ENL	BWG
155.6	SAM	TTH	BWG	PXV	ENL	IIU
167.4	IIU	TTH	BWG	PXV	FLM	ENL
221.1	IIU	EWO	BWG	ABB	FLM	PXV
235.2	IIU	EWO	PXV	ABB	FLM	BWG

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 48.46" W 90° 22' 59.39"	N 38° 46' 23.72" W 90° 26' 0.03"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.72" W 90° 26' 0.03"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.72" W 90° 26' 0.03"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.72" W 90° 26' 0.03"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.72" W 90° 26' 0.03"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 50' 7.01" W 90° 26' 31.24"	N 38° 50' 49.20" W 90° 25' 44.13"	0.9
	VOR: CSX	Available from N 38° 50' 7.01" W 90° 26' 31.24" to N 38° 50' 49.20" W 90° 25' 44.13"	
	VOR: FTZ	Available from N 38° 50' 7.01" W 90° 26' 31.24" to N 38° 50' 49.20" W 90° 25' 44.13"	
	VOR: STL	Available from N 38° 50' 7.01" W 90° 26' 31.24" to N 38° 50' 49.20" W 90° 25' 44.13"	
	VOR: TOY	Available from N 38° 50' 7.01" W 90° 26' 31.24" to N 38° 50' 49.20" W 90° 25' 44.13"	
3	N 38° 50' 13.54" W 90° 7' 48.20"	N 38° 46' 26.75" W 90° 0' 46.50"	6.7
	VOR: CSX	Available from N 38° 50' 13.54" W 90° 7' 48.20" to N 38° 46' 26.75" W 90° 0' 46.50"	
	VOR: STL	Available from N 38° 50' 13.54" W 90° 7' 48.20" to N 38° 46' 26.75" W 90° 0' 46.50"	
	VOR: TOY	Available from N 38° 50' 13.54" W 90° 7' 48.20" to N 38° 46' 26.75" W 90° 0' 46.50"	

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

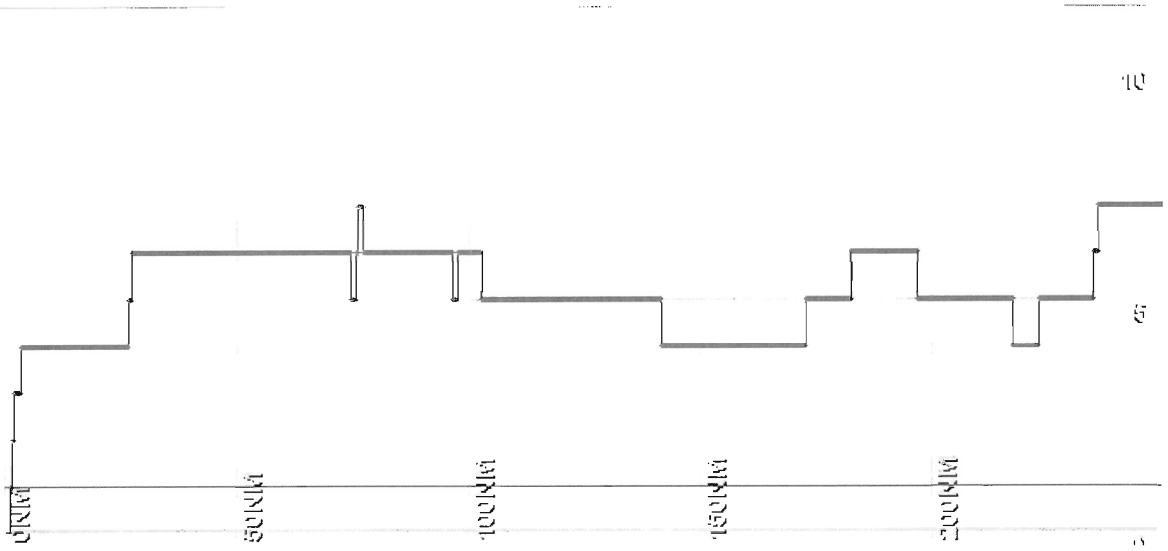
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	586.3	112.70	SPI	Used

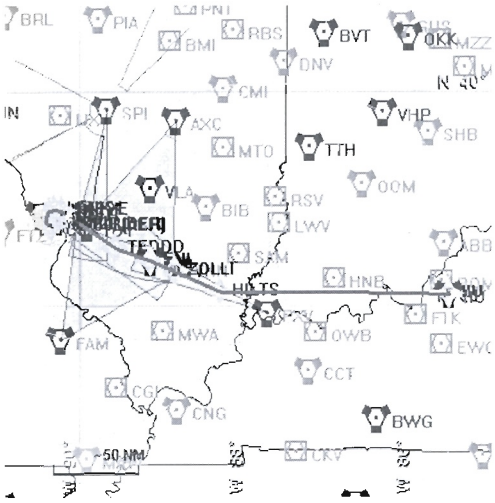
Restriction:	Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°	Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.
Restriction:	Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°	Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.
Restriction:	Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°	Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.
ESV:	Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°	Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.

Radar Analysis

Return To Summary

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





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Software:	RNAV-Pro™
Version:	2.35
Date/Time:	2/21/2012 7:08:11 PM
Input File:	TEDDD RW30L IIU 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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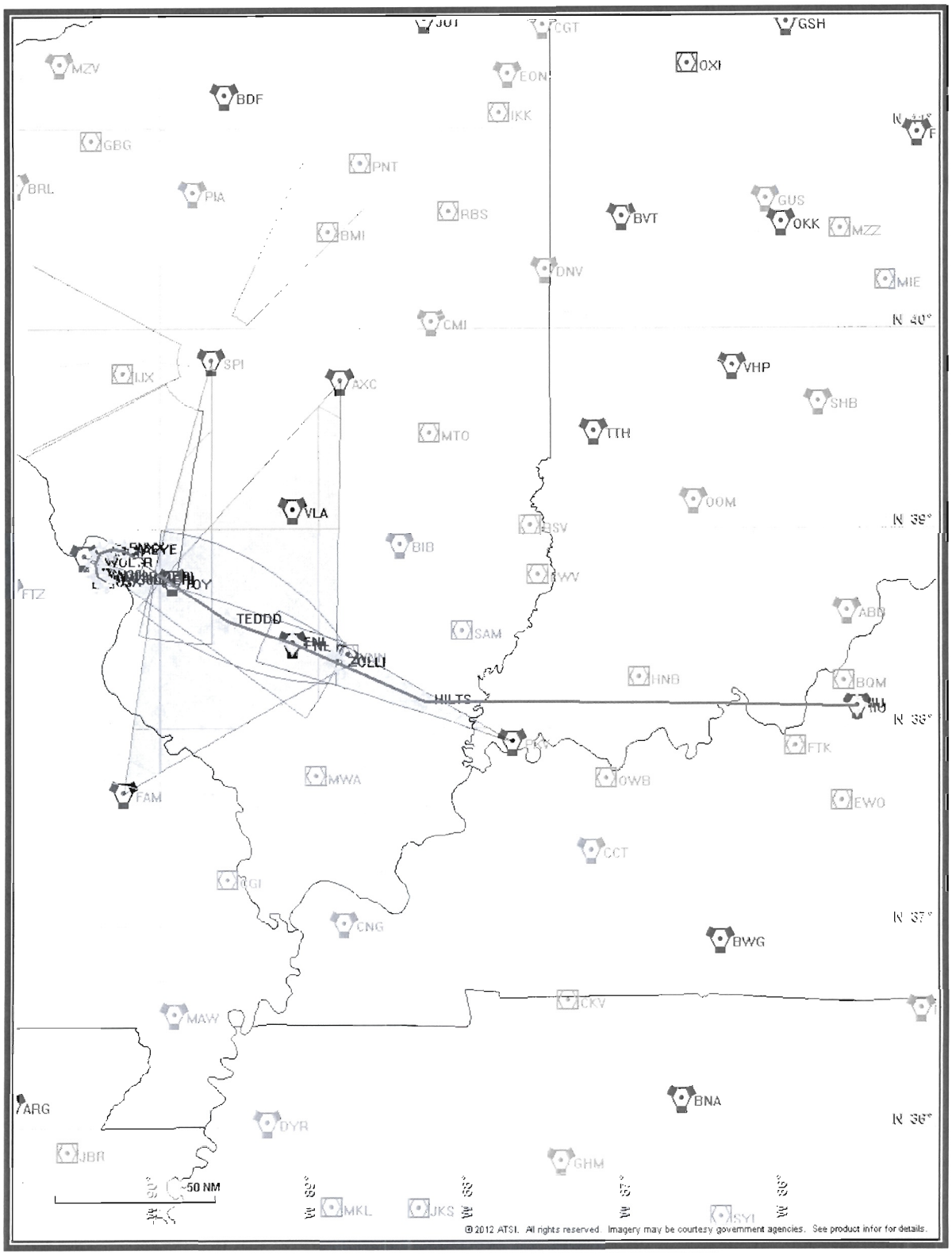
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BDF
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VLA
BIB
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FTZ
TEDDD
SAM
ZOLLI
HILTS
HNB
BQM
N 38°
FTK
MWA
OWB
FAM
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CCT
CNG
N 37°
BWG
CKV
MAW
ARG
BNA
N 36°
DYR
JBR
GHM
50 NM
MKL
JKS
SYI
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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' 51.05" W 90° 24' 0.07"	1120.0	VNAV	145.0	Fly Over	DF
WOLTR	WP	N 38° 49' 41.32" W 90° 25' 3.02"	2500.0	VNAV	180.0	Fly By	TF
ANNII	WP	N 38° 52' 52.69" W 90° 23' 22.37"	3189.1	VNAV	180.0	Fly By	TF
LENXX	WP	N 38° 54' 4.00" W 90° 18' 46.99"	3944.1	VNAV	180.0	Fly By	TF
KAEYE	WP	N 38° 53' 23.93" W 90° 13' 43.89"	4744.1	VNAV	180.0	Fly By	TF
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	12204.0	VNAV	210.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	16366.7	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	18000.0	VNAV	240.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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 LENXX 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:

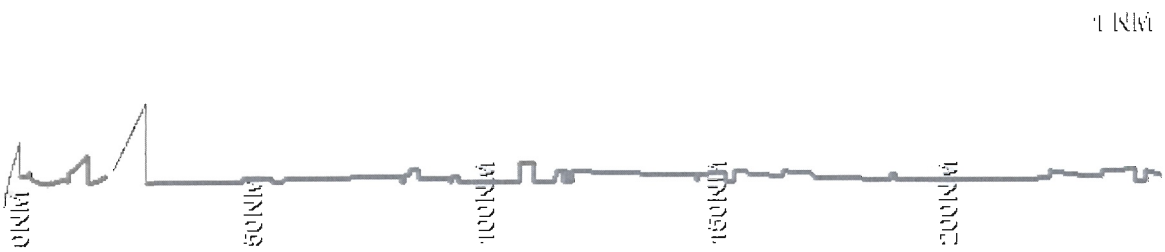
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 18

Maximum DME Error: 0.607 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, TOY, CSX, SPI, FAM, AXC, ENL, VNN, PXV, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	0.630	Enabled	12.7 %	12.1 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.607	Enabled	4.4 %	2.8 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.846	Enabled	12.9 %	11.4 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.835	Enabled	3.7 %	3.7 %
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H + ESV	User	NO	0.636	Enabled	2.4 %	2.5 %
6	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H + ESV	User	NO	0.607	Enabled	8.4 %	8.8 %
7	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.607	Enabled	14.3 %	14.9 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H + ESV	User	NO	0.607	Enabled	13.8 %	14.4 %
9	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.607	Enabled	17.1 %	17.9 %
10	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.607	Enabled	8.6 %	9.0 %
11	SAM	N 38° 29' 6.68" W 88° 5' 8.93"	L	Database	NO	0.607	Enabled	3.3 %	3.4 %
12	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H + ESV	User	NO	0.607	Enabled	20.5 %	21.3 %
13	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	0.607	Enabled	17.5 %	18.2 %
14	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.607	Enabled	22.2 %	23.1 %
15	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.607	Enabled	12.5 %	13.0 %
16	EWO	N 37° 37' 54.52" W 85° 40' 33.16"	L	Database	NO	0.607	Enabled	7.8 %	8.1 %
17	FLM	N 38° 38' 58.16" W 84° 18' 38.27"	H	Database	NO	0.607	Enabled	5.7 %	6.0 %
18	ABB	N 38° 35' 19.82" W 85° 38' 9.57"	L	Database	NO	0.607	Enabled	1.4 %	1.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.8		

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
2.9	STL	FTZ	CSX	TOY		
6.7	TOY	FTZ	CSX			
10.0	TOY	FTZ	CSX	STL		
13.5	TOY	FTZ	CSX	STL		
17.5	TOY	FTZ	CSX	STL		
27.6	SPI	FAM	CSX	STL	AXC	ENL
37.6	ENL	FAM	CSX	STL	AXC	TOY
54.9	ENL	FAM	TOY	STL	AXC	VNN
65.4	ENL	FAM	VNN	STL	AXC	SPI
76.0	SPI	CSX	VNN	MWA	AXC	FAM
91.1	PXV	CSX	VNN	MWA	SAM	AXC
108.5	FAM	AXC	VNN	MWA	SAM	ENL
118.7	ENL	TTH	VNN	PXV	SAM	BWG
155.6	ENL	TTH	BWG	PXV	SAM	IIU
167.5	IIU	TTH	BWG	PXV	FLM	ENL
221.1	IIU	EWO	BWG	ABB	FLM	PXV
235.2	IIU	EWO	PXV	ABB	FLM	BWG

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 17.08" W 90° 20' 49.42"	N 38° 46' 5.15" W 90° 24' 16.02"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.15" W 90° 24' 16.02"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.15" W 90° 24' 16.02"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.15" W 90° 24' 16.02"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.15" W 90° 24' 16.02"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 50' 12.89" W 90° 7' 46.99"	N 38° 46' 26.09" W 90° 0' 45.29"	6.7
	VOR: CSX	Available from N 38° 50' 12.89" W 90° 7' 46.99" to N 38° 46' 26.09" W 90° 0' 45.29"	
	VOR: STL	Available from N 38° 50' 12.89" W 90° 7' 46.99" to N 38° 46' 26.09" W 90° 0' 45.29"	
	VOR: TOY	Available from N 38° 50' 12.89" W 90° 7' 46.99" to N 38° 46' 26.09" W 90° 0' 45.29"	

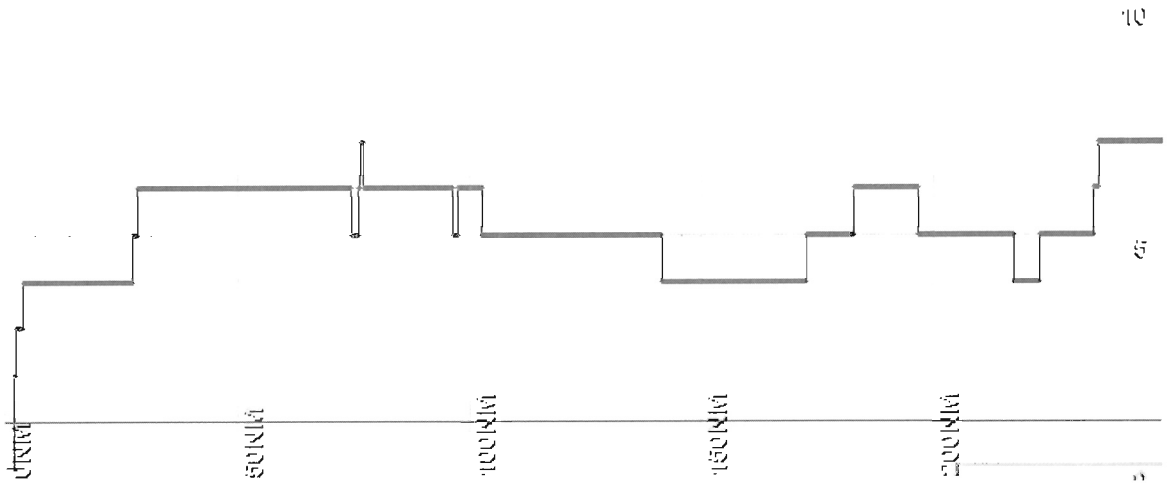
User DMEs

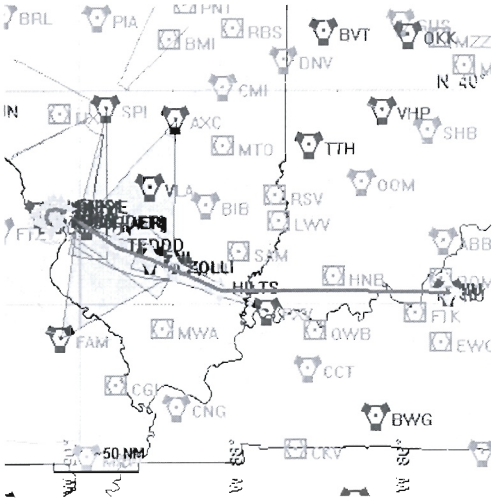
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	586.3	112.70	SPI	Used
		Restriction: Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°			Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.		
		Restriction: Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°			Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°			Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°			Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.		

Radar Analysis

Return To Summary

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





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Version:	2.35
Date/Time:	2/21/2012 7:35:21 PM
Input File:	TEDDD RW30R IIU 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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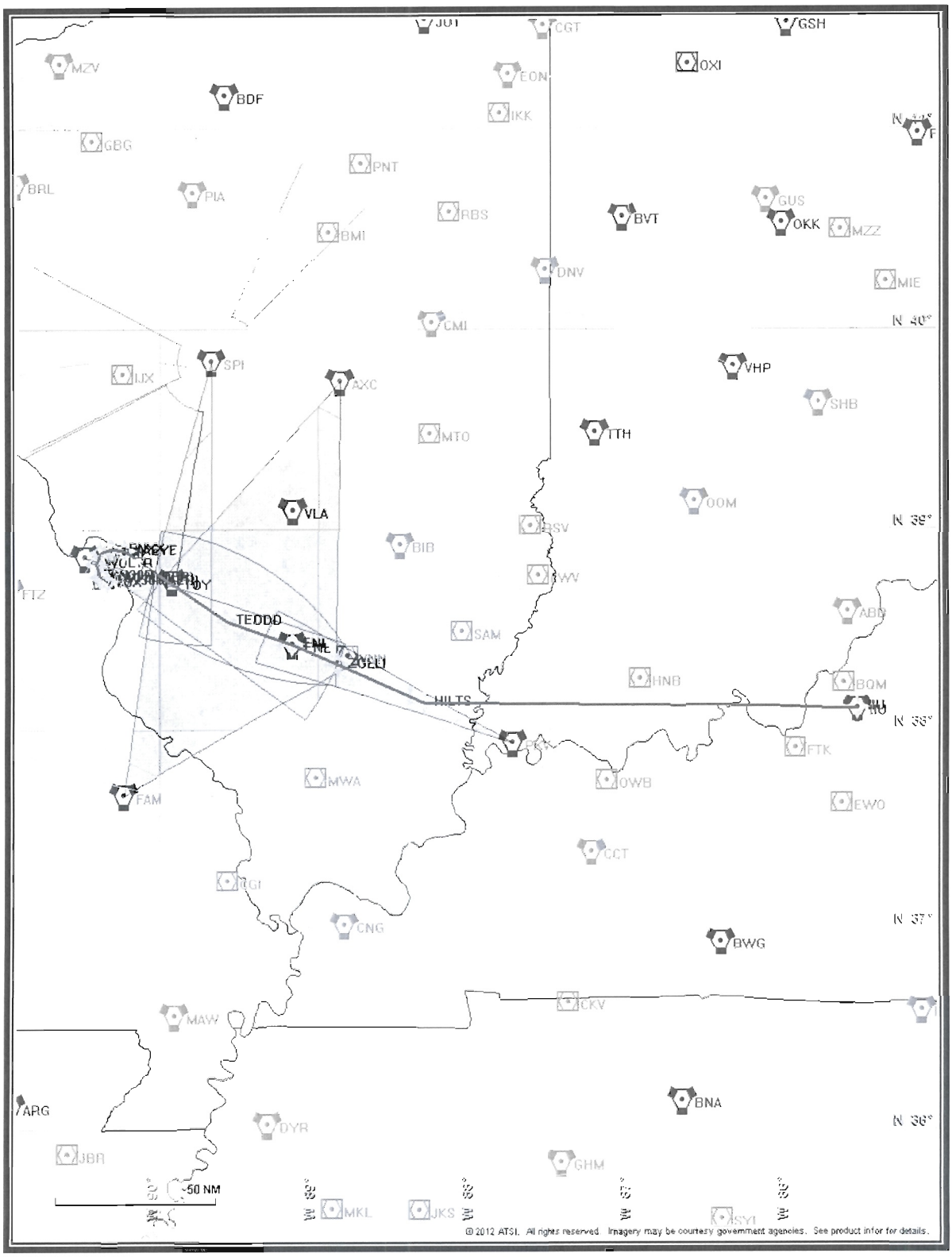
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TEDDD
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HNB
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HILTS
N 38°
FTK
MWA
OWB
FAM
EWO
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N 37°
CNG
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CKV
MAW
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ARG
DYR
N 36°
JBR
GHM
50 NM
MKL
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ISYI
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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' 44.26" W 90° 23' 15.48"	1120.0	VNAV	145.0	Fly Over	DF
WOLTR	WP	N 38° 49' 41.32" W 90° 25' 3.02"	2500.0	VNAV	180.0	Fly By	TF
ANNII	WP	N 38° 52' 52.69" W 90° 23' 22.37"	3189.1	VNAV	180.0	Fly By	TF
LENXX	WP	N 38° 54' 4.00" W 90° 18' 46.99"	3944.1	VNAV	180.0	Fly By	TF
KAEYE	WP	N 38° 53' 23.93" W 90° 13' 43.89"	4744.1	VNAV	180.0	Fly By	TF
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	12204.0	VNAV	210.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	16366.7	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	18000.0	VNAV	240.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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 LENXX 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:

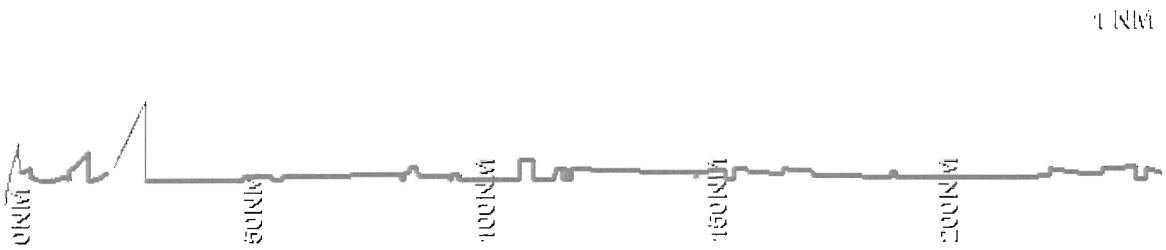
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 18

Maximum DME Error: 0.605 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, TOY, CSX, SPI, FAM, AXC, ENL, VNN, PXV, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	0.628	Enabled	12.9 %	12.2 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.605	Enabled	4.5 %	2.8 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.846	Enabled	12.7 %	11.4 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.833	Enabled	3.7 %	3.7 %
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H + ESV	User	NO	0.636	Enabled	2.4 %	2.5 %
6	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H + ESV	User	NO	0.605	Enabled	8.4 %	8.7 %
7	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.605	Enabled	14.4 %	14.9 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H + ESV	User	NO	0.605	Enabled	13.9 %	14.4 %
9	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.605	Enabled	17.1 %	17.8 %
10	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.605	Enabled	8.7 %	9.0 %
11	SAM	N 38° 29' 6.68" W 88° 5' 8.93"	L	Database	NO	0.605	Enabled	3.2 %	3.4 %
12	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H + ESV	User	NO	0.605	Enabled	20.5 %	21.3 %
13	TTH	N 39° 29' 20.19" W 87° 14' 56.47"	H	Database	NO	0.605	Enabled	17.5 %	18.2 %
14	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	0.605	Enabled	22.2 %	23.1 %
15	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	Database	NO	0.605	Enabled	12.4 %	12.9 %
16	EWO	N 37° 37' 54.52" W 85° 40' 33.16"	L	Database	NO	0.605	Enabled	7.8 %	8.1 %
17	FLM	N 38° 38' 58.16" W 84° 18' 38.27"	H	Database	NO	0.605	Enabled	5.7 %	6.0 %
18	ABB	N 38° 35' 19.82" W 85° 38' 9.57"	L	Database	NO	0.605	Enabled	1.4 %	1.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.5		

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
2.6	STL	FTZ	CSX	TOY		
6.6	STL	FTZ	CSX	TOY		
10.0	STL	FTZ	CSX	TOY		
13.5	STL	FTZ	CSX	TOY		
17.5	STL	FTZ	CSX	TOY		
27.5	STL	SPI	CSX	FAM	AXC	ENL
37.6	STL	ENL	CSX	FAM	AXC	TOY
54.9	STL	ENL	TOY	FAM	AXC	VNN
65.4	STL	ENL	VNN	FAM	AXC	SPI
75.9	SPI	CSX	VNN	MWA	AXC	FAM
91.0	PXV	CSX	VNN	MWA	SAM	AXC
108.5	FAM	AXC	VNN	MWA	SAM	ENL
118.7	ENL	TTH	VNN	PXV	SAM	BWG
155.5	ENL	TTH	BWG	PXV	SAM	IIU
167.4	IIU	TTH	BWG	PXV	FLM	ENL
221.1	IIU	EWO	BWG	ABB	FLM	PXV
235.2	IIU	EWO	PXV	ABB	FLM	BWG

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 18.99" W 90° 20' 22.51"	N 38° 46' 2.45" W 90° 23' 33.64"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.45" W 90° 23' 33.64"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.45" W 90° 23' 33.64"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.45" W 90° 23' 33.64"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.45" W 90° 23' 33.64"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 50' 12.52" W 90° 7' 46.30"	N 38° 46' 27.62" W 90° 0' 48.12"	6.6
	VOR: CSX	Available from N 38° 50' 12.52" W 90° 7' 46.30" to N 38° 46' 27.62" W 90° 0' 48.12"	
	VOR: STL	Available from N 38° 50' 12.52" W 90° 7' 46.30" to N 38° 46' 27.62" W 90° 0' 48.12"	
	VOR: TOY	Available from N 38° 50' 12.52" W 90° 7' 46.30" to N 38° 46' 27.62" W 90° 0' 48.12"	

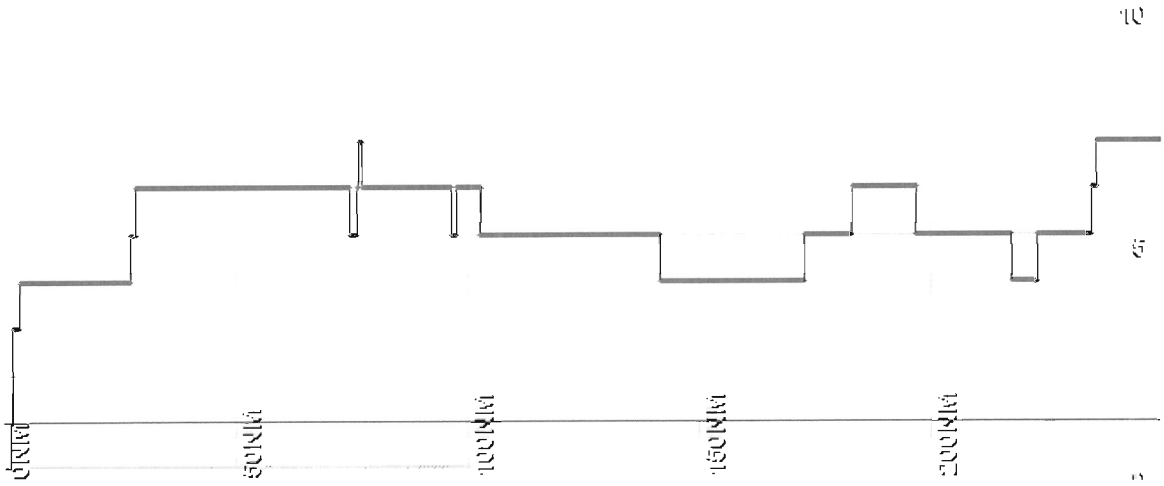
User DMEs

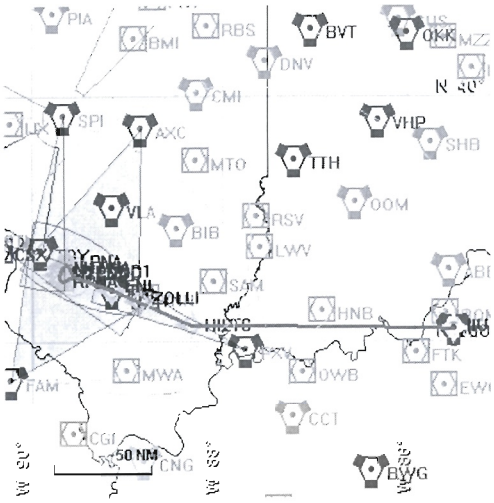
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	586.3	112.70	SPI	Used
		Restriction: Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°			Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.		
		Restriction: Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°			Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°			Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°			Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.		

Radar Analysis

Return To Summary

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





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Project Name:	
Output File:	KSTL SID TEDDD IIU 20120718_0901
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/18/2012 9:01:14 AM
Input File:	KSTL_PNA_TEDDD_ENL_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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CCI
CNG
BWG
CKV
MAW
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
TEDDD	WP	N 38° 32' 11.84" W 89° 34' 30.31"	9370.7	VNAV	180.0	Fly Over	TF
LPNA	WP	N 38° 38' 32.05" W 89° 38' 18.95"	9370.7	VNAV	180.0	Fly By	TF
M1PNA	WP	N 38° 36' 11.28" W 89° 41' 50.51"	9370.7	VNAV	180.0	Fly By	TF
M2PNA	WP	N 38° 32' 46.35" W 89° 43' 23.82"	9370.7	VNAV	180.0	Fly By	TF
RPNA	WP	N 38° 29' 12.25" W 89° 42' 34.13"	9370.7	VNAV	180.0	Fly By	TF
TEDDD1	WP	N 38° 32' 11.84" W 89° 34' 30.31"	9370.7	VNAV	180.0	Fly By	TF
ENL	WP	N 38° 25' 11.99" W 89° 9' 32.39"	13533.3	VNAV	210.0	Fly By	TF
ZOLLI	WP	N 38° 19' 12.23" W 88° 52' 10.73"	16515.2	VNAV	210.0	Fly By	TF
HILTS	WP	N 38° 7' 45.42" W 88° 19' 30.79"	18000.0	VNAV	240.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	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:

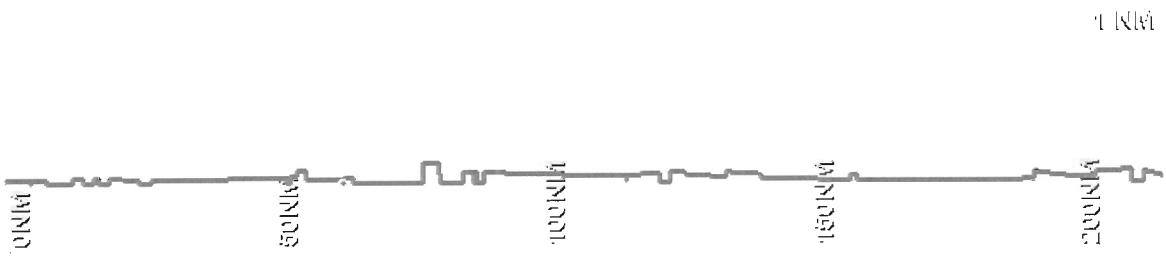
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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 TEDDD ENL

Total Number of DMEs Used: 17

Maximum DME Error: 0.362 NM.

No Critical DMEs were found.

Available DMEs: FAM, STL, AXC, ENL, TOY, CSX, VLA, VNN, PXV, SPI, MWA, SAM, TTH, BWG, IIU, FLM, EWO, ABB



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	0.362	Enabled	8.3 %	6.7 %
2	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.589	Enabled	23.5 %	21.2 %
3	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	Database	NO	0.443	Enabled	18.5 %	18.2 %
4	FAM	N 37° 40' 24.39" W 90° 14' 2.53" E 1	H + ESV	User	NO	0.333	Enabled	7.6 %	6.5 %
5	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.362	Enabled	1.9 %	1.6 %
6	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.383	Enabled	5.6 %	5.2 %
7	VNN	N 38° 21' 43.03" W 88° 48' 26.41" E 2	L	Database	NO	0.575	Enabled	20.5 %	20.5 %
8	MWA	N 37° 45' 15.32" W 89° 0' 42.00" E 4	L	Database	NO	0.432	Enabled	10.5 %	10.3 %
9	SPI	N 39° 50' 23.04" W 89° 40' 39.83" W 1	H + ESV	User	NO	0.362	Enabled	0.8 %	0.8 %
10	SAM	N 38° 29' 6.68" W 88° 5' 8.93" E 3	L	Database	NO	0.432	Enabled	3.8 %	3.9 %
11	PXV	N 37° 55' 41.95" W 87° 45' 44.56" E 3	H + ESV	User	NO	0.362	Enabled	23.3 %	24.6 %
12	TTH	N 39° 29' 20.19" W 87° 14' 56.47" E 2	H	Database	NO	0.369	Enabled	19.8 %	21.0 %
13	BWG	N 36° 55' 43.47" W 86° 26' 36.36" E 2	H	Database	NO	0.395	Enabled	25.0 %	26.6 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77" E 1	H	Database	NO	0.384	Enabled	14.0 %	14.9 %
15	EWO	N 37° 37' 54.52" W 85° 40' 33.16" E 1	L	Database	NO	0.362	Enabled	8.8 %	9.3 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	FLM	N 38° 38' 58.16" W 84° 18' 38.27" W 4	H	Database	NO	0.383	Enabled	6.4 %	6.9 %
17	ABB	N 38° 35' 19.82" W 85° 38' 9.57" E 1	L	Database	NO	0.362	Enabled	1.6 %	1.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	AXC	STL	ENL	FAM	TOY	CSX
5.1	AXC	CSX	ENL	FAM	TOY	VLA
8.9	AXC	STL	ENL	FAM	TOY	CSX
12.6	AXC	STL	ENL	FAM	CSX	TOY
14.8	AXC	STL	ENL	FAM	CSX	TOY
21.9	AXC	STL	ENL	FAM	TOY	VNN
33.0	AXC	STL	ENL	FAM	VNN	TOY
43.1	AXC	SPI	CSX	MWA	VNN	FAM
58.3	PXV	SAM	CSX	MWA	VNN	AXC
75.7	FAM	SAM	AXC	MWA	VNN	ENL
85.7	ENL	SAM	TTH	PXV	VNN	BWG
122.8	ENL	SAM	TTH	PXV	BWG	IIU
134.6	IIU	FLM	TTH	PXV	BWG	ENL
188.4	IIU	FLM	EWO	ABB	BWG	PXV
202.5	IIU	FLM	EWO	ABB	PXV	BWG

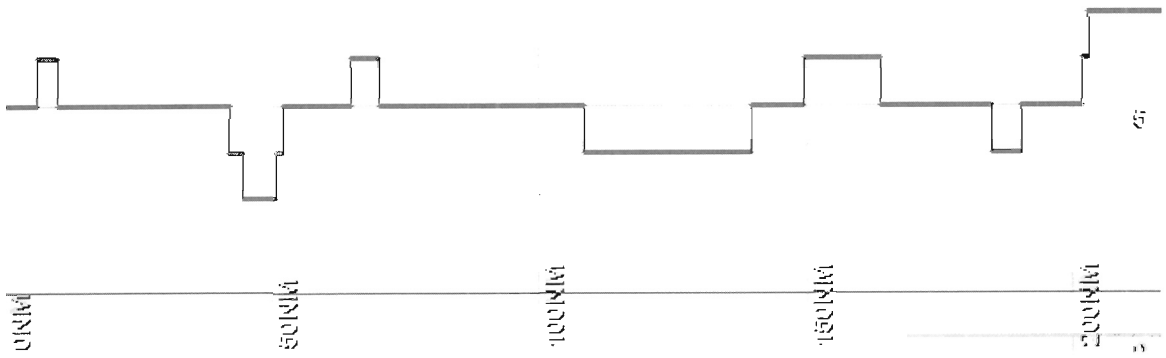
DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	PXV	N 37° 55' 41.95" W 87° 45' 44.56" E 3	H	384.3	113.30	PXV	Used
		ESV: Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 285.0° to 297.0°			Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	FAM	N 37° 40' 24.39" W 90° 14' 2.53" E 1	H	1220.0	115.70	FAM	Used
		ESV: Bearing [True]: 8.0° to 60.0° Bearing [Mag]: 7.0° to 59.0°			Arc Distance: Out to 80.0 NM Altitude: 6000.0 to 17000.0 Ft.		
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 108.0° to 126.0° Bearing [Mag]: 107.0° to 125.0°			Arc Distance: Out to 82.0 NM Altitude: 6000.0 to 17000.0 Ft.		
4	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV: Bearing [True]: 181.0° to 222.0° Bearing [Mag]: 178.0° to 219.0°			Arc Distance: Out to 91.0 NM Altitude: 6000.0 to 17000.0 Ft.		
5	SPI	N 39° 50' 23.04" W 89° 40' 39.83" W 1	H	586.3	112.70	SPI	Used
		Restriction: Bearing [True]: 24.0° to 44.0° Bearing [Mag]: 25.0° to 45.0°			Distance: Beyond 15.0 NM Altitude: Below 3000.0 Ft.		
		Restriction: Bearing [True]: 189.0° to 243.0° Bearing [Mag]: 190.0° to 244.0°			Distance: Beyond 15.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 244.0° to 299.0° Bearing [Mag]: 245.0° to 300.0°			Distance: Beyond 10.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 180.0° to 195.0° Bearing [Mag]: 181.0° to 196.0°			Arc Distance: Out to 85.0 NM Altitude: 4000.0 to 15000.0 Ft.		

Radar Analysis

Return To Summary

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