Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 02/28/2012	Task #: 2006071410720507001	Request #: 20060714107205
Procedure: STAR BUUDD (RNAV) ONE BELLEVILLE IL KBLV		Airport ID: KBLV	Airport: SCOTT AFB/MIDAMERICA		Reimbursable #:
City: BELLEVILLE	ST: IL	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID:	Fac. Type: Proc-D	Specialist: DONALD LANIER			

P1 **DME / DME**

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/07/2012	08/15/2012	JILL OLSON	
QA:	08/15/2012	08/15/2012	STEVEN SZUKALA	ESV REQUEST INCLUDED
Liaison:	08/15/2012		K. Spurlin	P1 - DME/DME - ESV

Procedure Comments: ENROUTE **Remark Type:** INFORMATION PKG 2 of 5

BELLEVILLE, IL SCOTT AFB/MIDAMERICA (KBLV) STAR BUUDD (RNAV) ONE ENROUTE-YES FC BY 9/18/12 PUB 11/15/12

ESV(S): (2); CENTRALIA (ENL) VORTAC (1); VANDALIA (VLA) VORTAC (1).
ATTACHED FORMS: 7100-3, 7100-4, 8260-2(S): BUUDD, ORIG; DSETH, ORIG; DUTMY, REV 4; EERRR, ORIG; FORISTELL VORTAC, REV 13; JULYA, ORIG; PAMMM, ORIG; ST LOUIS VORTAC, REV 17 (INFO ONLY); SUGAR, REV 7; TROY VORTAC, REV 18 (INFO ONLY); WEIZZ, ORIG.

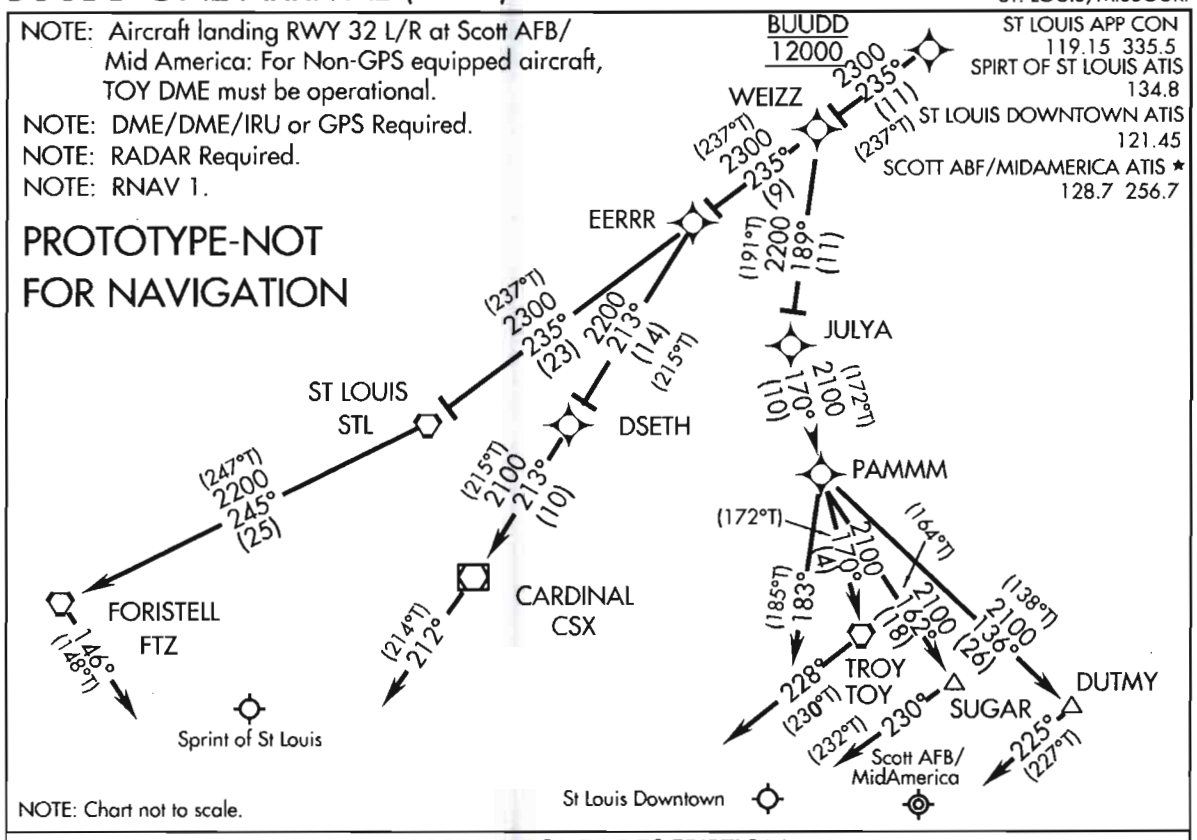
CONTACT: JILL OLSON (LEAD)/STEVE BARNETT, AJV-353, 405.954.0414/9307.

BUUDD: 3914.786'/08943.425' JULYA: 3858.555'/08957.654' DSETH: 3852.963'/09014.699'
WEIZZ: 3908.928'/08955.119' PAMMM: 3848.315'/08955.824' CSX: 3845.165'/09021.658'
STL: 3851.641'/09028.942' TOY: 3844.349'/08955.117' SUGAR: 3831.458'/08949.468'
FTZ: 3841.660'/09058.270' EERRR: 3904.092'/09004.721' DUTMY: 3829.025'/08933.754'

(BUUDD.BUUDD1) FIG ST-5400 (FAA)

BUUDD ONE ARRIVAL (RNAV)

ST. LOUIS, MISSOURI



ARRIVAL ROUTE DESCRIPTION

SPIRIT OF ST LOUIS:

LANDING RWYS 8L/R...From BUUDD on track 235° to WEIZZ, then on track 235° to STL VORTAC, then on track 245° to FTZ VORTAC. Expect radar vectors prior to FTZ VORTAC, if no heading recieved by FTZ VORTAC, track 146°.

LANDING RWYS 26 L/R . . . . From BUUDD on track 235° to WEIZZ, then on track 235° to EERRR, then on track 213° to DSETH, then on track 213° to CSX VOR/DME. Expect radar vectors prior to CSX VOR/DME, if no heading recieved by CSX VOR/DME, track 212°.

SCOTT AFB/MID AMERICA:

LANDING RWY 14 L/R . . . . From BUUDD on track 235° to WEIZZ, then on track 189° to JULYA, then on track 170° to PAMMM, then on track170° to TOY VORTAC. Expect radar vectors prior to TOY VORTAC, if no heading recieved by TOY VORTAC, track 228°.

LANDING RWY 32 L/R . . . . From BUUDD on track 235° to WEIZZ, then on track 189° to JULYA, then on track 170° to PAMMM, then on track 136° to DUTMY. Expect radar vectors prior to DUTMY, if no heading recieved by DUTMY, track 225°.

CAHOKIA/ ST LOUIS DOWNTOWN APT:

LANDING RWY 12 R . . . . From BUUDD on track 235° to WEIZZ, then on track 189° to JULYA, then on track 170° to PAMMM. Expect radar vectors prior to PAMMM, if no heading recieved by PAMMM, track 183°.

LANDING RWY 30 L/ R . . . . From BUUDD on track 235° to WEIZZ, then on track 189° to JULYA, then on track 170° to PAMMM, then on track 162° to SUGAR, Expect radar vectors prior to SUGAR, if no heading recieved by SUGAR, track 230°.

BUUDD ONE ARRIVAL (RNAV)

ST. LOUIS, MISSOURI

(BUUDD.BUUDD1) FIG

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CENTRALIA	City : CENTRALIA	Ident : ENL	State : IL
Type/Class : TACR	Frequency : M1184	Reference No.: 10071843	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698174-022	262	298	40	20	60

Requirement: ESTABLISH AN ESV FOR THE BUDDD RNAV STAR INTO THE STL SATELLITE AIRPORTS.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 07/14/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-022	262	298	40	20	60	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE BUDDD RNAV STAR INTO THE STL SATELLITE AIRPORTSApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 07/15/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-022	262	298	40	20	60	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE BUDDD RNAV STAR INTO THE STL SATELLITE AIRPORTSApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/19/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-022	262	298				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VANDALIA	City : VANDALIA	Ident : VLA	State : IL
Type/Class : TACR	Frequency : M1177	Reference No.: 10092667	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702003-010	199	229	55	20	50

Requirement: ESTABLISH AN ESV FOR THE BUUDD RNAV STAR INTO STL SATELLITE AIRPORT.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 09/23/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702003-010	199	229	55	20	50	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE BUUDD RNAV STAR INTO STL SATELLITE AIRPORT.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Vu Peter	Routing Symbol:	Date: 10/06/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702003-010	199	229	55	20	50	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE BUUDD RNAV STAR INTO STL SATELLITE AIRPORT.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 10/21/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702003-010	199	229				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

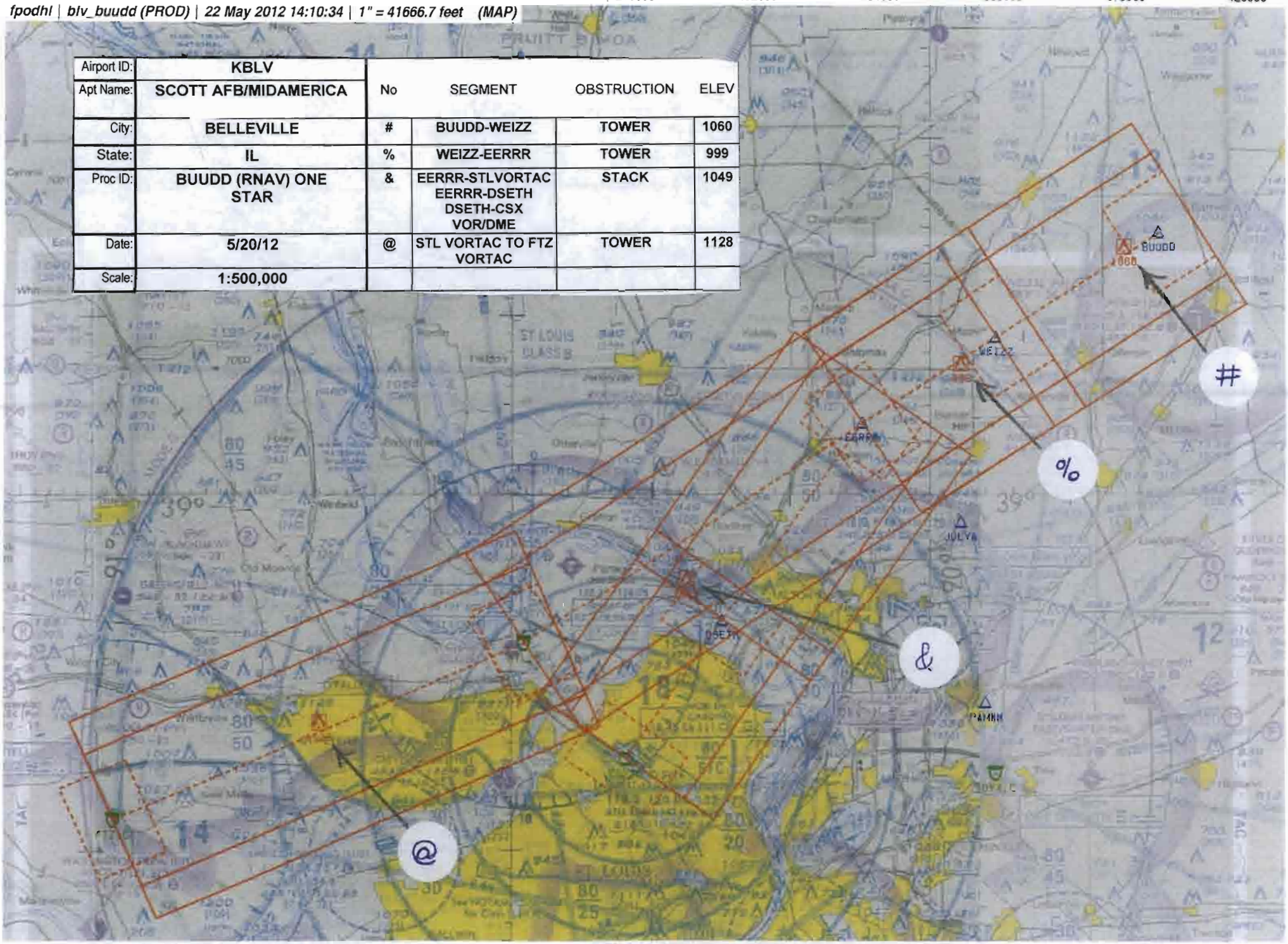
NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fpodhl | blv_buudd (PROD) | 22 May 2012 14:10:34 | 1" = 41666.7 feet (MAP)

Airport ID:	KBLV
Apt Name:	SCOTT AFB/MIDAMERICA
City:	BELLEVILLE
State:	IL
Proc ID:	BUUDD (RNAV) ONE STAR
Date:	5/20/12
Scale:	1:500,000

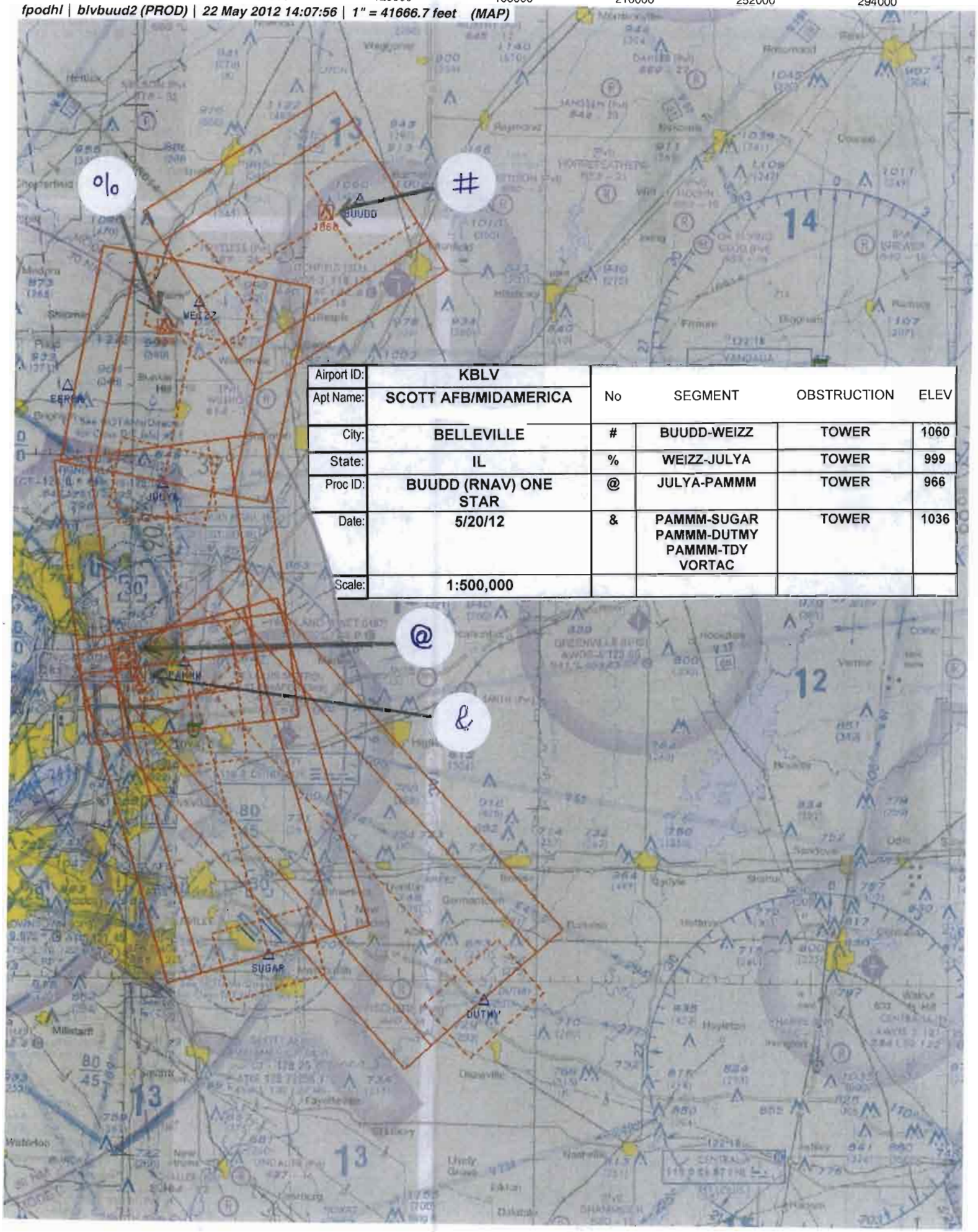
No	SEGMENT	OBSTRUCTION	ELEV
#	BUUDD-WEIZZ	TOWER	1060
%	WEIZZ-EERRR	TOWER	999
&	EERRR-STLVORTAC EERRR-DSETH DSETH-CSX VOR/DME	STACK	1049
@	STL VORTAC TO FTZ VORTAC	TOWER	1128



NM 7 14 21 28 35 42 49

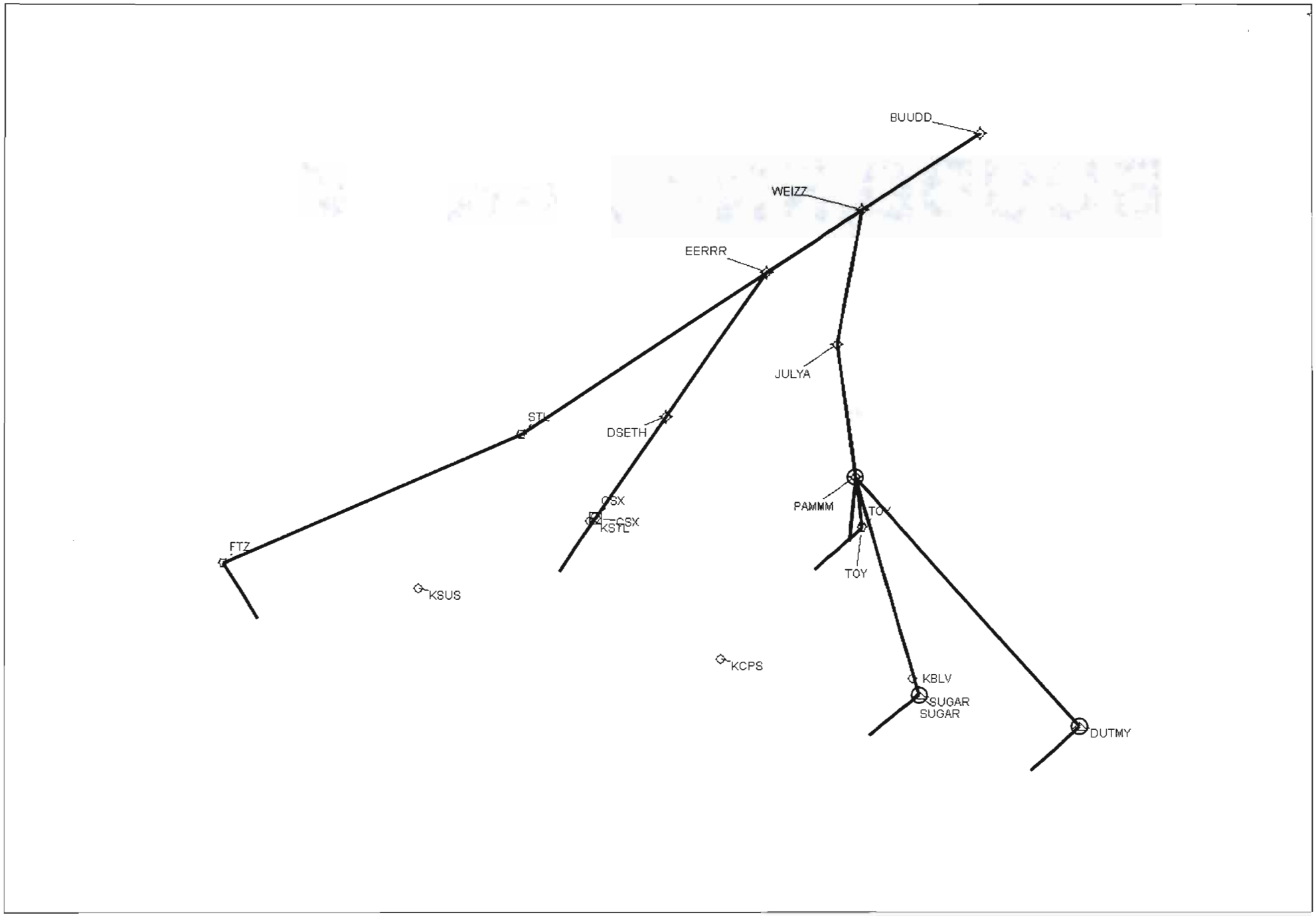
FT 42000 84000 126000 168000 210000 252000 294000

fpodhl | blvbuud2 (PROD) | 22 May 2012 14:07:56 | 1" = 41666.7 feet (MAP)



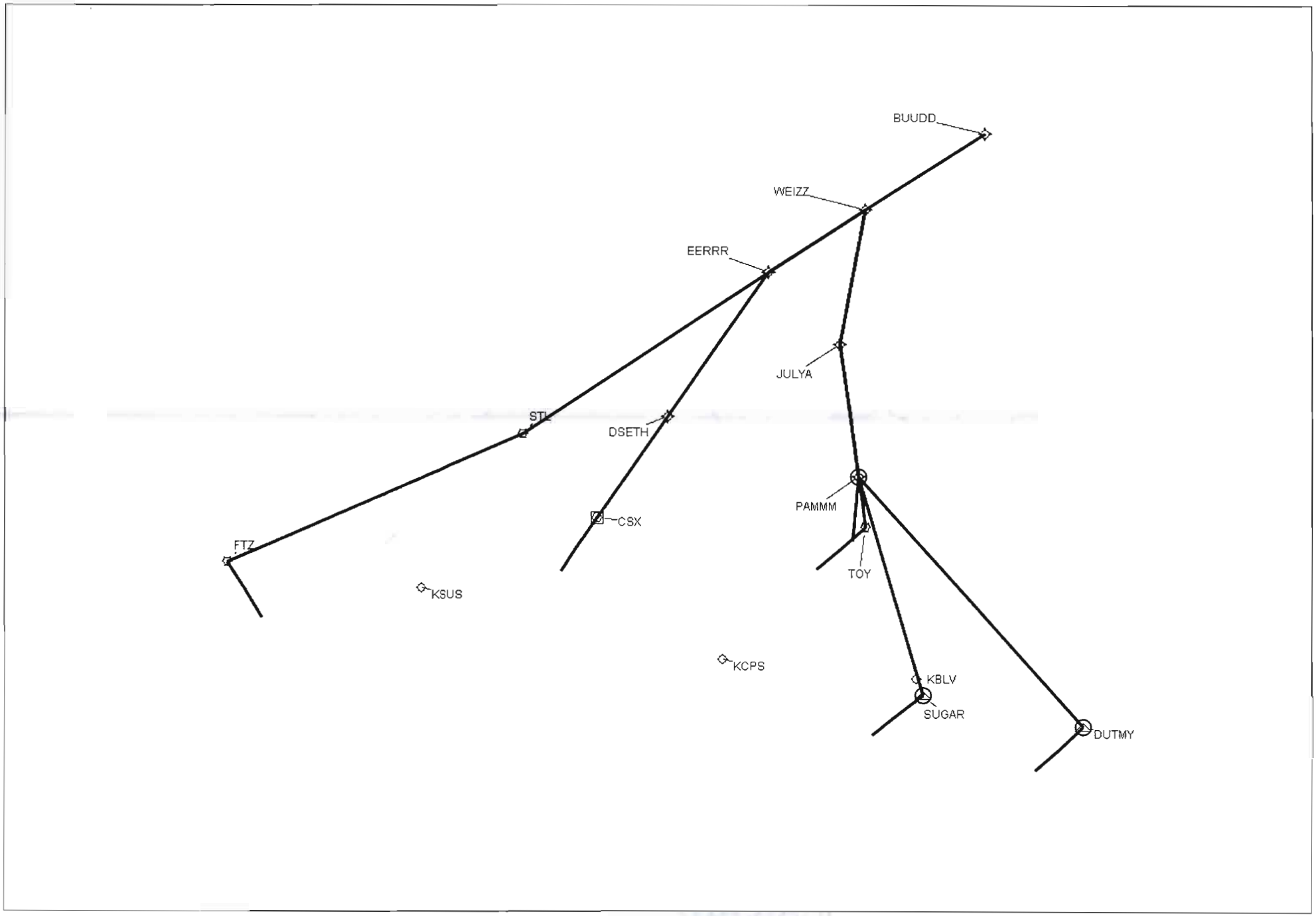
Airport ID:	KBLV
Apt Name:	SCOTT AFB/MIDAMERICA
City:	BELLEVILLE
State:	IL
Proc ID:	BUUDD (RNAV) ONE STAR
Date:	5/20/12
Scale:	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
#	BUUDD-WEIZZ	TOWER	1060
%	WEIZZ-JULYA	TOWER	999
@	JULYA-PAMMM	TOWER	966
&	PAMMM-SUGAR PAMMM-DUTMY PAMMM-TDY VORTAC	TOWER	1036



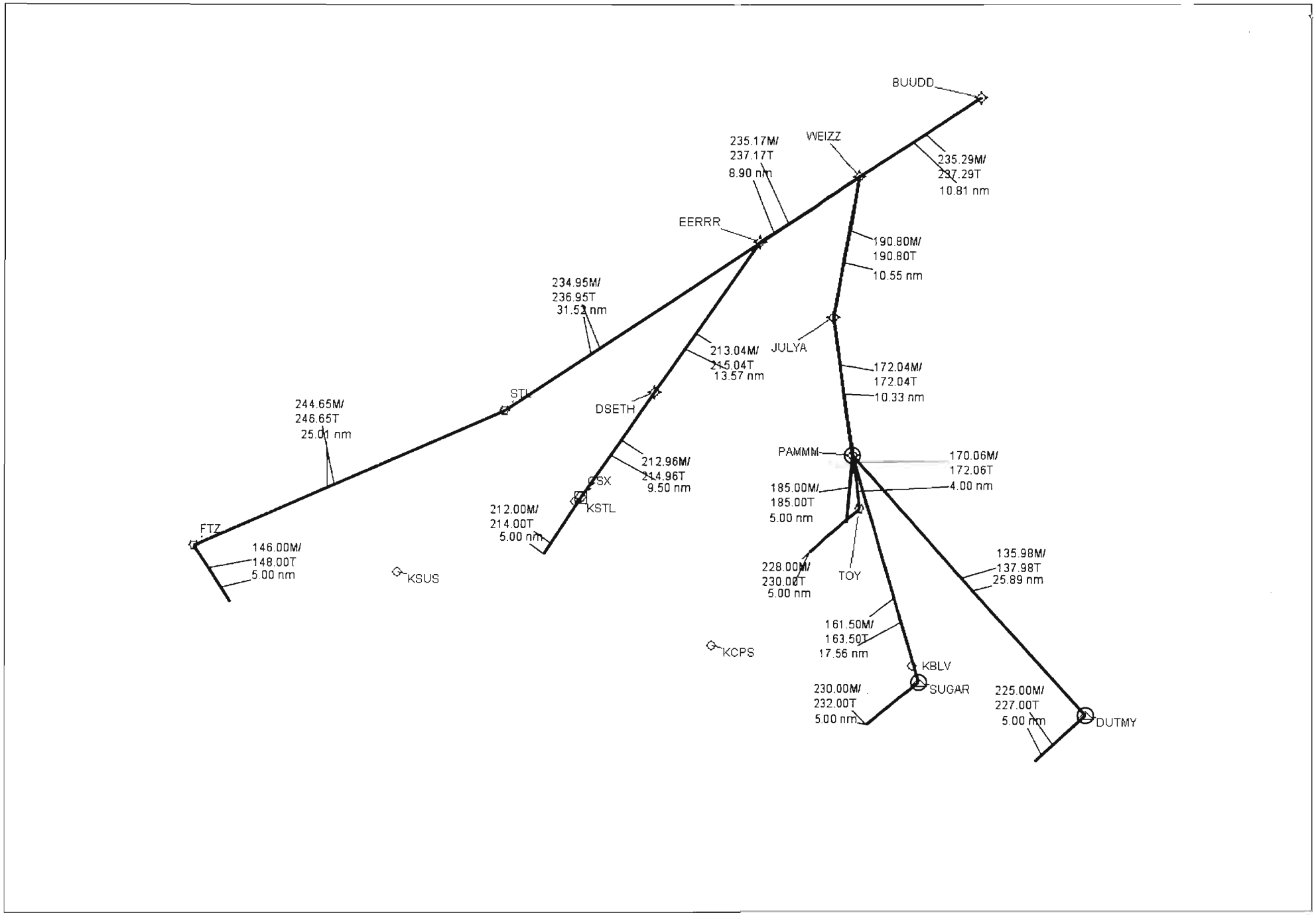
BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:21 CDT 2012 TARGETS 4.8 (April 5, 2012)



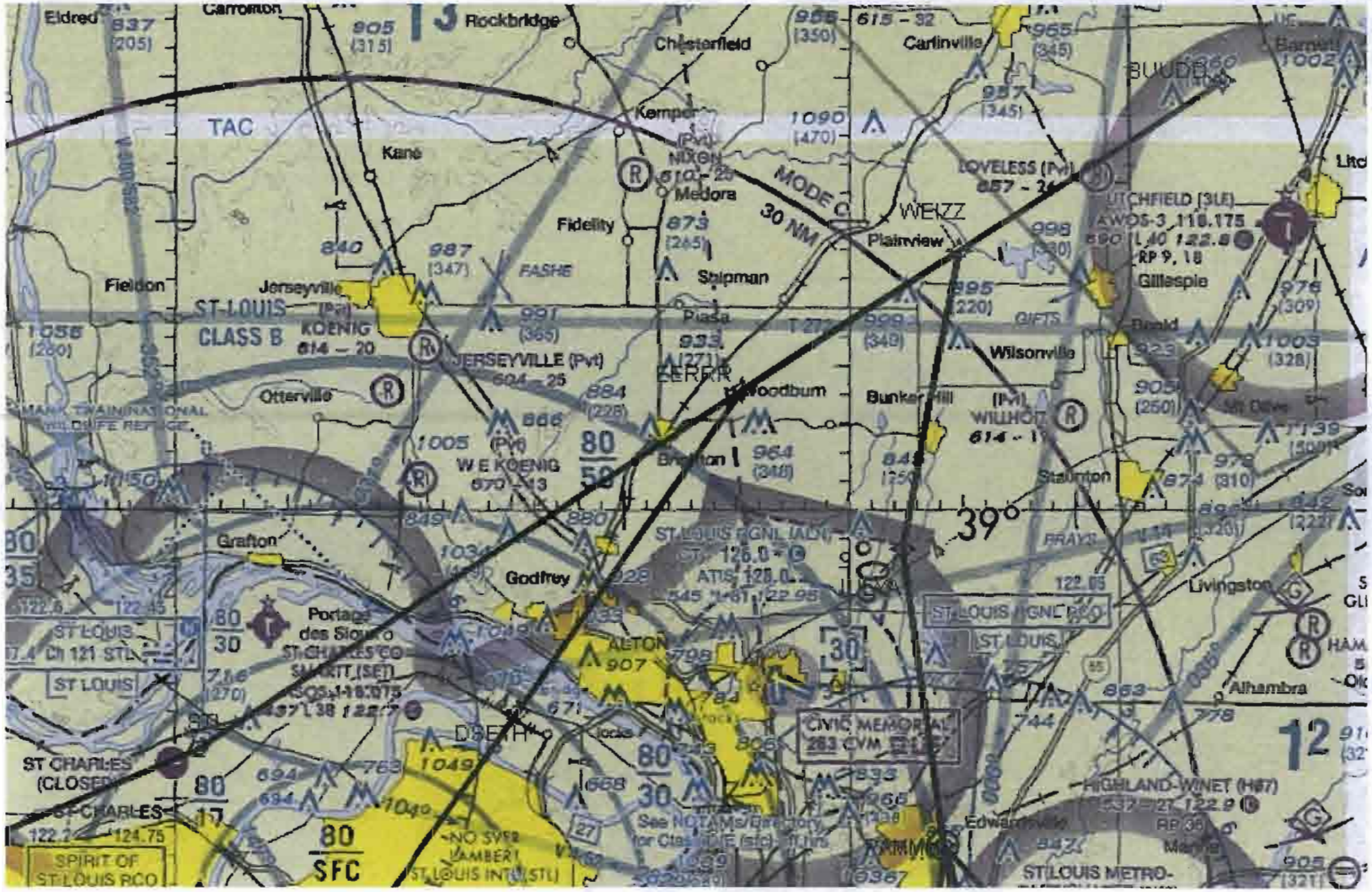
BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:21 CDT 2012 TARGETS 4.8 (April 5, 2012)



BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:21 CDT 2012 TARGETS 4.8 (April 5, 2012)



BUUDD RNAV ARRIVAL

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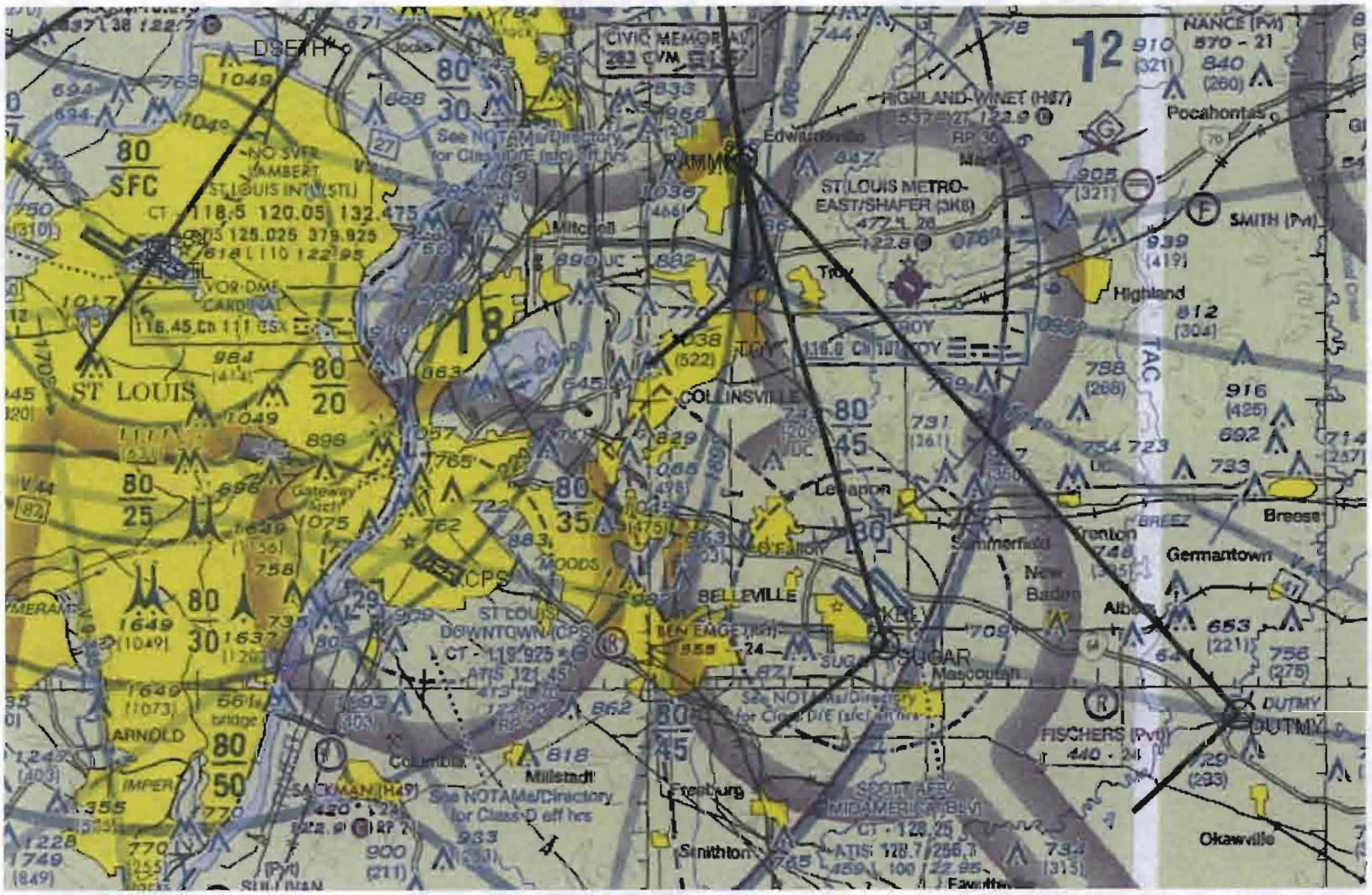

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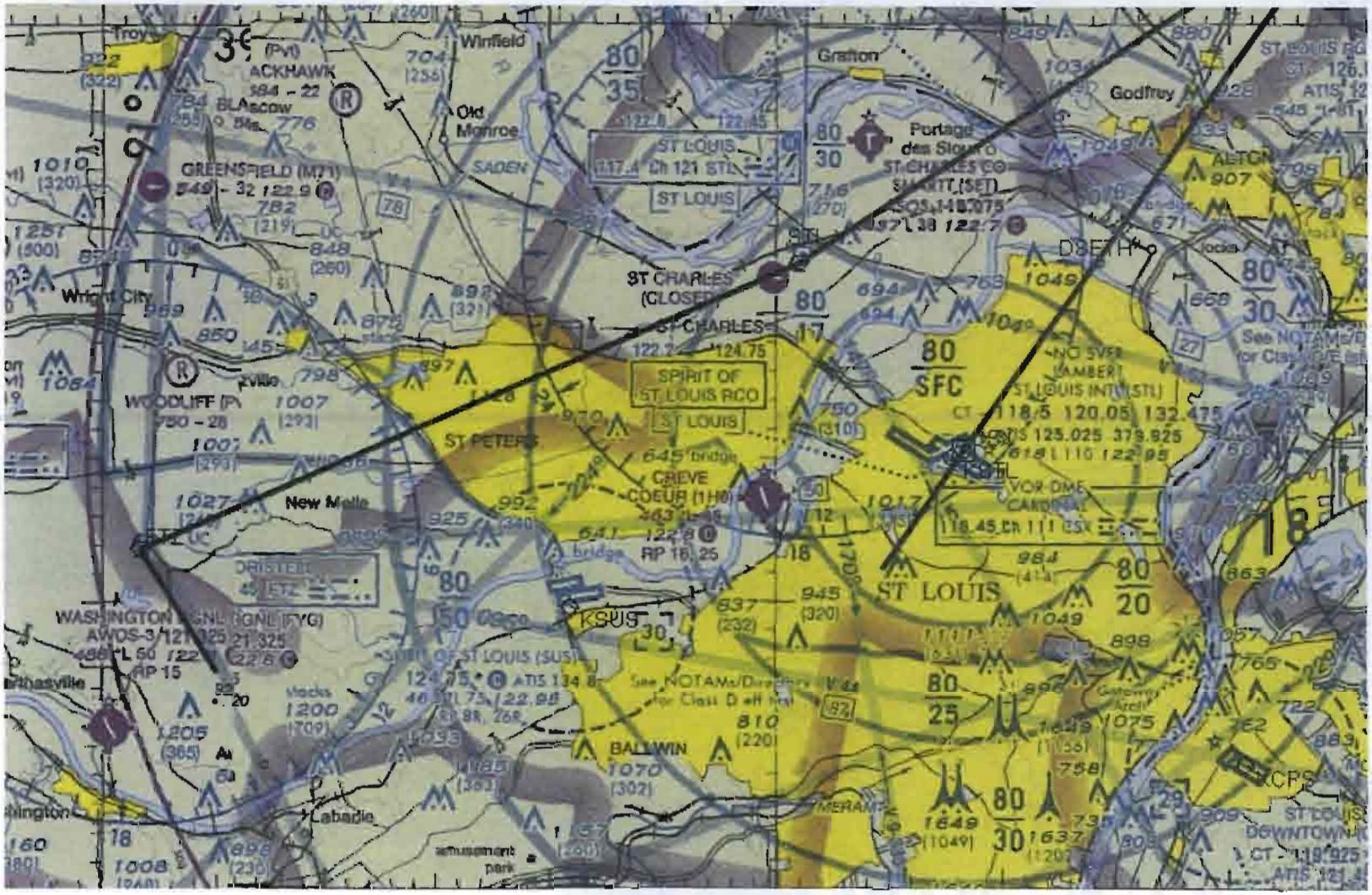
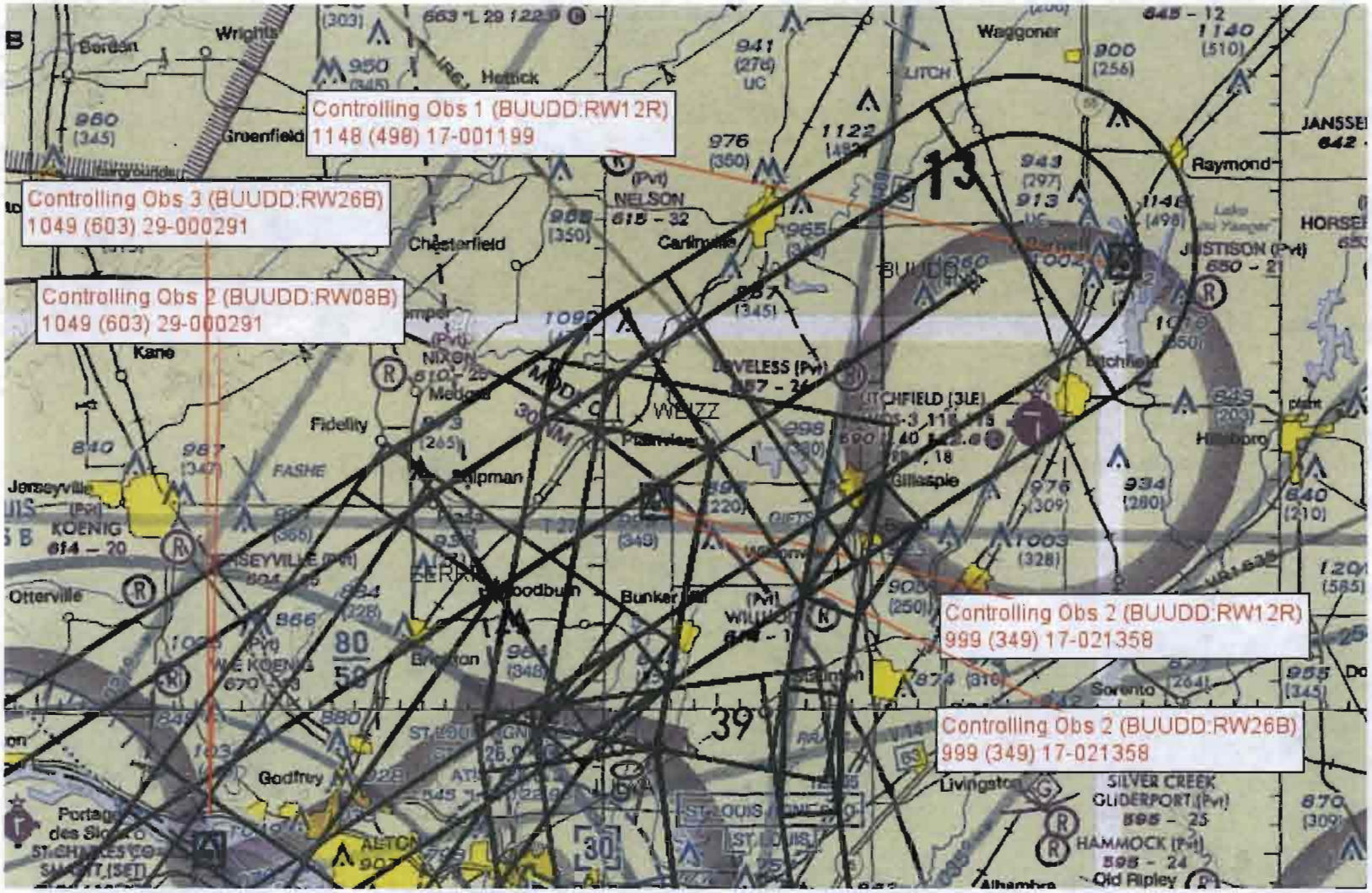


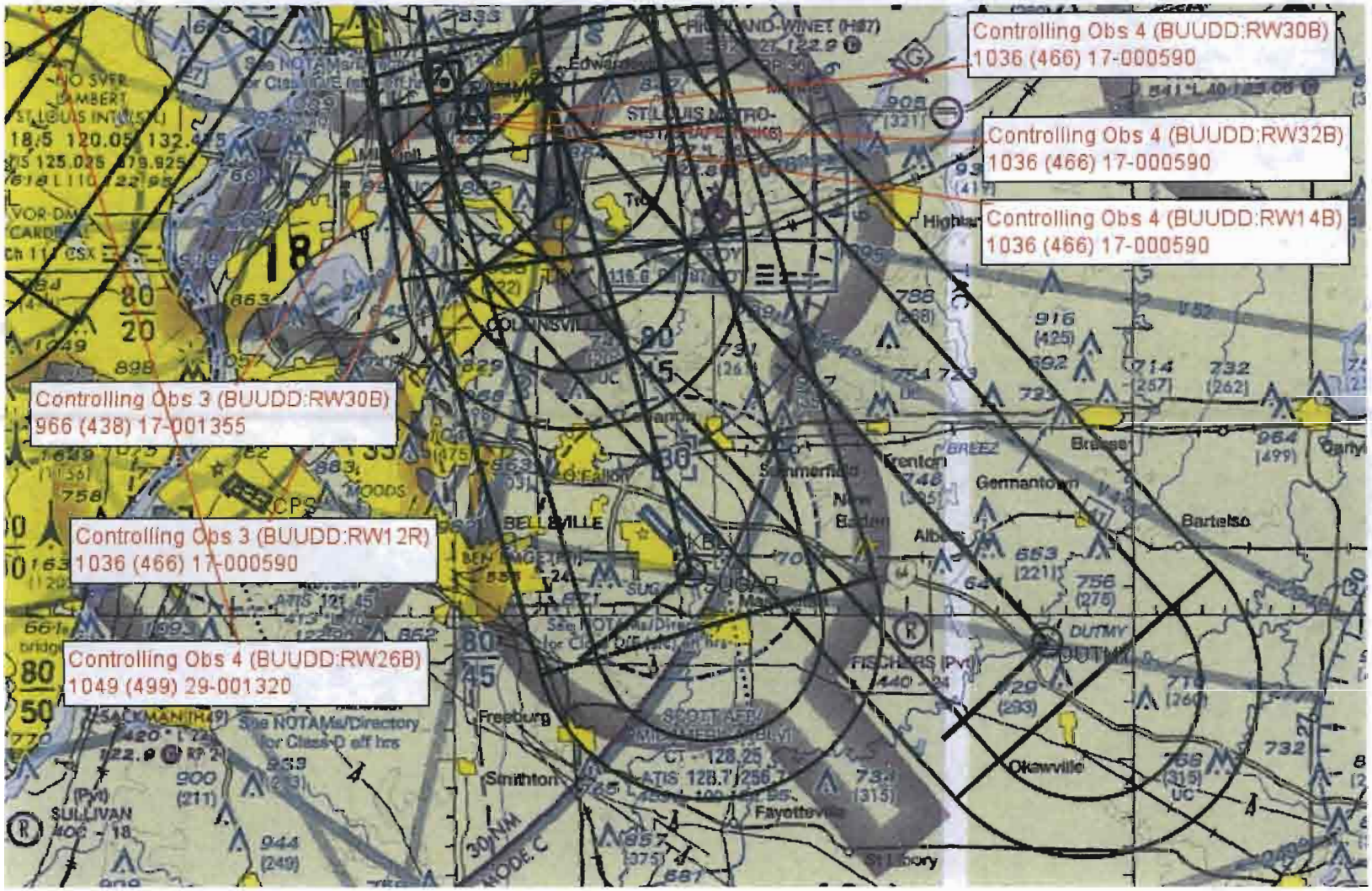
BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:21 CDT 2012 TARGETS 4.8 (April 5, 2012)



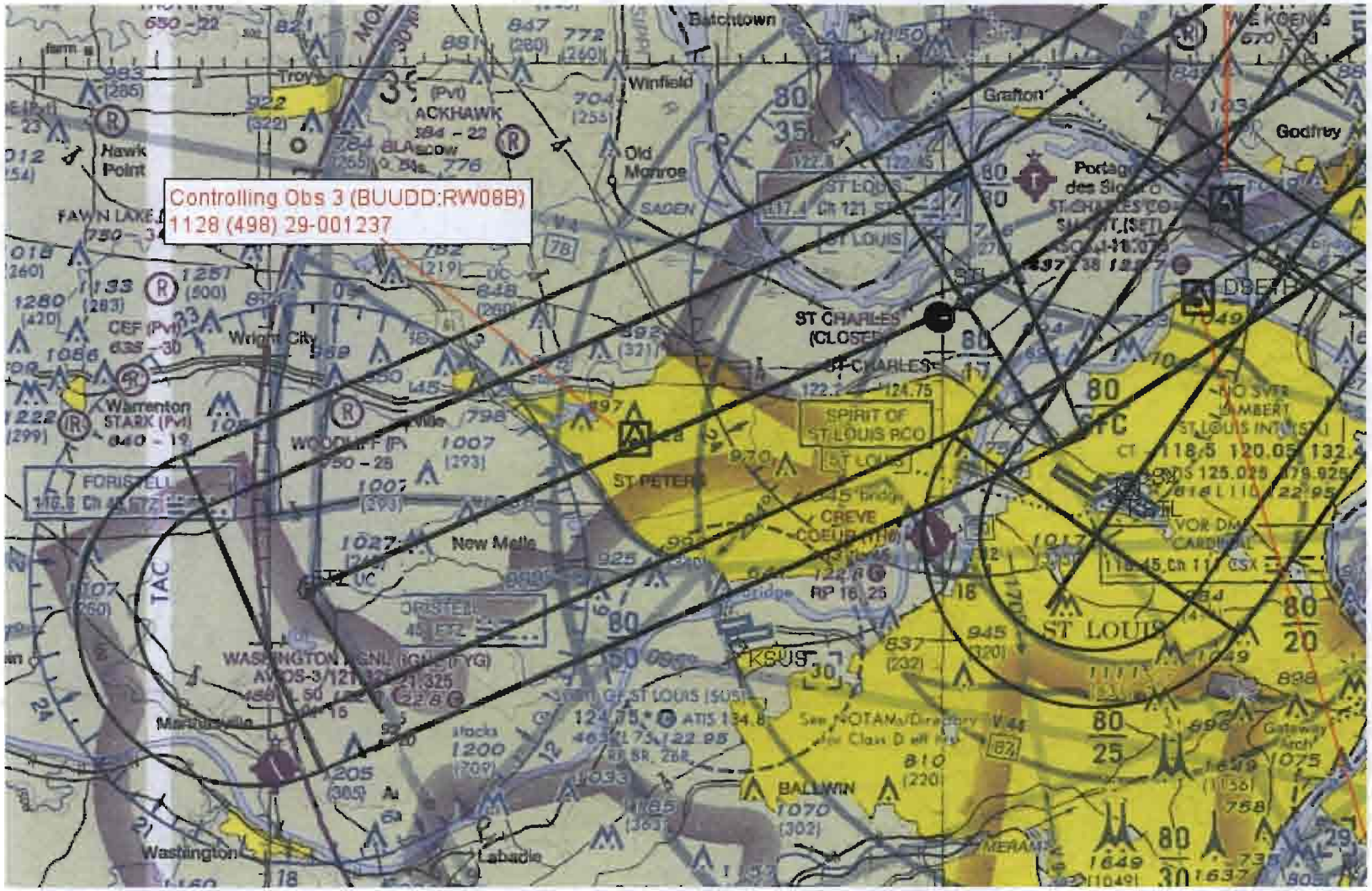
BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:22 CDT 2012 TARGETS 4.8 (April 5, 2012)



BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:22 CDT 2012 TARGETS 4.8 (April 5, 2012)



BUUDD RNAV ARRIVAL

Created : Mon Jul 16 12:47:22 CDT 2012 TARGETS 4.8 (April 5, 2012)

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

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

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distanc	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes

(2) Arrival Route Description: LANDING RWYS 8L/R AT SPIRIT OF ST. LOUIS: FROM BUUDD ON TRACK 235.29/10.81 TO WEIZZ (MEA 2300), THEN ON TRACK 234.95/31.52 TO STL VORTAC (MEA 2300), THEN ON TRACK 244.65/25.01 TO FTZ VORTAC (MEA 2200). EXPECT RADAR VECTORS PRIOR TO FTZ VORTAC, IF NO HEADING RECEIVED, TRACK 146.00.
LANDING RWYS 26L/R AT SPIRIT OF ST. LOUIS: FROM BUUDD (12000) ON TRACK 235.29/10.81 TO WEIZZ (MEA 2300) THEN ON TRACK 235.17/8.90 TO EERRR (MEA 2300), THEN ON TRACK 213.04/13.57 TO DSETH (MEA 2200), THEN ON TRACK 212.96/9.50 TO CSX VOR/DME (MEA 2100). EXPECT RADAR VECTORS PRIOR TO CSX VOR/DME, IF NO HEADING RECEIVED, TRACK 212.00.
Continued on block 16...

(7) Procedural Data Notes: CHART: VERTICAL NAVIGATION PLANNING INFORMATION: EXPECT TO CROSS BUUDD AT 12000.
NOTE: RNAV 1
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED.

(8) Fixes and/or Holding Patterns: NONE

(9) Communications: STL APP CON 119.15/335.5, KSUS ATIS, KCPS ATIS, KBLV ATIS

(10) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

(12) Airports Served	
Airport Name SPIRIT OF ST. LOUIS	City/State ST. LOUIS, MO
Airport Name ST. LOUIS DOWNTOWN	City/State CAHAKIA/ST. LOUIS, MO
Airport Name SCOTT AFB/MIDAMERICA	City/State BELLEVILLE, IL
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure:

(14) Remarks:

(15) Additional Flight Data: REFERENCE MAG VAR: KSUS 02E/1990
DME/DME ASSESSMENT: SAT (RNP 2.0).

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

(16) Continuation:

BLOCK (2) ARRIVAL ROUTE DESCRIPTION.
LANDING RWY 14L/R AT SCOTT AFB/MIDAMERICA: FROM BUUDD (12000) ON TRACK 235.29/10.81 TO WEIZZ (MEA 2300) THEN ON TRACK 188.80/10.55 TO JULYA (MEA 2200) THEN ON TRACK 170.04/10.33 TO PAMMM (MEA 2100), THEN ON TRACK 170.06/04.00 TO TOY VORTAC (MEA 2100). EXPECT RADAR VECTORS PRIOR TO TOY VORTAC, IF NO HEADING RECEIVED, TRACK 228.00.
LANDING RWY 12R AT CAHOKIA/ST. LOUIS DOWNTOWN: FROM BUUDD (12000) ON TRACK 235.29/10.81 TO WEIZZ (MEA 2300) THEN ON TRACK 188.80/10.55 TO JULYA (MEA 2200) THEN ON TRACK 170.04/10.33 TO PAMMM (MEA 2100). EXPECT RADAR VECTORS PRIOR TO PAMMM, IF NO HEADING RECEIVED, TRACK 183.00.
LANDING RWY 30L/R AT CAHOKIA/ST. LOUIS DOWNTOWN: FROM BUUDD (12000) ON TRACK 235.29/10.81 TO WEIZZ (MEA 2300) THEN ON TRACK 188.80/10.55 TO JULYA (MEA 2200) THEN ON TRACK 170.04/10.33 TO PAMMM (MEA 2100), THEN ON TRACK 161.50/17.56 TO SUGAR (MEA 2100). EXPECT RADAR VECTORS PRIOR TO SUGAR, IF NO HEADING RECEIVED, TRACK 230.00.
LANDING RWY 32L/R AT SCOTT AFB/MIDAMERICA: FROM BUUDD (12000) ON TRACK 235.29/10.81 TO WEIZZ (MEA 2300) THEN ON TRACK 188.80/10.55 TO JULYA (MEA 2200), THEN ON TRACK 170.04/10.33 TO PAMMM (MEA 2100), THEN ON TRACK 135.98/25.89 TO DUTMY (MEA 2100). EXPECT RADAR VECTORS PRIOR TO DUTMY, IF NO HEADING RECEIVED, TRACK 225.00.

(17) Changes:

(18) Reasons for Changes:

	Name (Typed and Signed), Title and Organization		DATE
Developed By	Jay Gaumer, Airspace and Procedures Specialist, ZKC ARTCC		
Approved	NFPG		
	Reg. ATD		

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
Common Route									
BUUDD	391447.16N / 0894325.49W	Y		IF			AT 12000		
WEIZZ	390855.71N / 0895507.12W	Y	FB	TF	237.29	10.81			
Runway Transition									
WEIZZ	390855.71N / 0895507.12W	Y		IF					
STL VORTAC	385138.48N / 0902856.52W	Y	FB	TF	236.95	31.52			
FTZ VORTAC	384139.58N / 0905816.17W	Y	FO	TF	246.65	25.01			
KSUS:RW08L/R				FM	148.00				
Runway Transition									
WEIZZ	390855.71N / 0895507.12W	Y		IF					
JULYA	385833.31N / 0895739.26W	Y	FB	TF	190.80	10.55			
PAMMM	384818.91N / 0895549.44W	Y	FO	TF	172.04	10.33			
KCPS:RW12R				FM	185.00				

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
Runway Transition									
WEIZZ	390855.71N / 0895507.12W	Y		IF					
JULYA	385833.31N / 0895739.26W	Y	FB	TF	190.80	10.55			
PAMMM	384818.91N / 0895549.44W	Y	FB	TF	172.04	10.33			
TOY VORTAC	384420.97N / 0895507.06W	Y	FO	TF	172.06	04.00			
KBLV:RW14L/R				FM	230.00				
Runway Transition									
WEIZZ	390855.71N / 0895507.12W	Y		IF					
EERRR	390405.51N / 0900443.24W	Y	FB	TF	237.17	08.90			
DSETH	385257.75N / 0901441.95W	Y	FB	TF	215.04	13.57			
CSX VOR/DME	384509.88N / 0902139.46W	Y	FO	TF	214.96	09.50			
KSUS:RW26L/R				FM	214.00				

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
Runway Transition									
WEIZZ	390855.71N / 0895507.12W	Y		IF					
JULYA	385833.31N / 0895739.26W	Y	FB	TF	190.80	10.55			
PAMMM	384818.91N / 0895549.44W	Y	FB	TF	172.04	10.33			
SUGAR	383127.48N / 0894928.08W	Y	FO	TF	163.50	17.56			
KCPS:RW30L/R				FM	232.00				
Runway Transition									
WEIZZ	390855.71N / 0895507.12W	Y		IF					
JULYA	385833.31N / 0895739.26W	Y	FB	TF	190.80	10.55			
PAMMM	384818.91N / 0895549.44W	Y	FB	TF	172.04	10.33			
DUTMY	382901.49N / 0893345.22W	Y	FO	TF	137.98	25.89			
KBLV:RW32L/R				FM	227.00				

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        SKE   K5011220 TTW                    SKE N38324332W089510593E0020004400     NARSCOTT
        SUSAD        TOY   K5011600VTLW N38442094W089550693    N38442094W089550693E0040005761     NARTROY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUUDD K50    W     N39144716W089432549                      W0016     NAR           BUUDD
        SUSAEAENRT   DUTMY K50    C   L N38290149W089334522                      W0016     NAR           DUTMY
        SUSAEAENRT   JULYA K50    W     N38583331W089573926                      W0013     NAR           JULYA
        SUSAEAENRT   PAMMM K50    W     N38481891W089554944                      W0013     NAR           PAMMM
        SUSAEAENRT   WEIZZ K50    W     N39085571W089550712                      W0014     NAR           WEIZZ

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBLVK5ABLV     0     100YHN38324260W089500670E002000459         1800018000C    MNAR    SCOTT AFB/MIDAMERICA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBLVK5EBUUDD15       010BUUDDK5EA0E       IF                                  12000     18000
        SUSAP KBLVK5EBUUDD15       020WEIZZK5EA0EE   010TF                      23530108
        SUSAP KBLVK5EBUUDD16RW14B 010WEIZZK5EA0E       IF                                            18000
        SUSAP KBLVK5EBUUDD16RW14B 020JULYAK5EA0E    010TF                      18880106
        SUSAP KBLVK5EBUUDD16RW14B 030PAMMMK5EA0E    010TF                      17000103
        SUSAP KBLVK5EBUUDD16RW14B 040TOY  K5D 0VY   010TF                      17010040
        SUSAP KBLVK5EBUUDD16RW14B 050TOY  K5D 0VE      FM SKE K5      342901202280    D
        SUSAP KBLVK5EBUUDD16RW32B 010WEIZZK5EA0E       IF                                            18000
        SUSAP KBLVK5EBUUDD16RW32B 020JULYAK5EA0E    010TF                      18880106
        SUSAP KBLVK5EBUUDD16RW32B 030PAMMMK5EA0E    010TF                      17000103
        SUSAP KBLVK5EBUUDD16RW32B 040DUTMYK5EA0EY   010TF                      13600259
        SUSAP KBLVK5EBUUDD16RW32B 050DUTMYK5EA0EE      FM SKE K5      103101412250    D

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBLVK5GRW14L   0100001346 N38332231W089500059+0000    +010390044100005515 0IIBTC1
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

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```
SUSAP KBLVK5GRW14R   0080111345 N38330658W089514299-0300    +0109200459000051150IIOXK1
SUSAP KBLVK5GRW32L   0080113145 N38321061W089503544+0300    +0102600437021057150IIBLV1
SUSAP KBLVK5GRW32R   0100003146 N38321054W089483404+0000    +0104000442000055150IIJDU1
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		BUUDD	010		IF		FB				AT 12000	
		WEIZZ	020		TF		FB	1.0	235.3()	010.8		
	RW14B	WEIZZ	010		IF		FB					
	RW14B	JULYA	020		TF		FB	1.0	188.8()	010.6		
	RW14B	PAMMM	030		TF		FB	1.0	170.0()	010.3		
	RW14B	TOY	040		TF		FO	1.0	170.1()	004.0		
	RW14B	TOY	050		FM		FB		228.0()			
	RW32B	WEIZZ	010		IF		FB					
	RW32B	JULYA	020		TF		FB	1.0	188.8()	010.6		
	RW32B	PAMMM	030		TF		FB	1.0	170.0()	010.3		
	RW32B	DUTMY	040		TF		FO	1.0	136.0()	025.9		
	RW32B	DUTMY	050		FM		FB		225.0()			

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
SKE (DME)	N383243.32	W0895105.93	N3832.722	W08951.099
TOY	N384420.94	W0895506.93	N3844.349	W08955.116
BUUDD	N391447.16	W0894325.49	N3914.786	W08943.425
DUTMY	N382901.49	W0893345.22	N3829.025	W08933.754
JULYA	N385833.31	W0895739.26	N3858.555	W08957.654
PAMMM	N384818.91	W0895549.44	N3848.315	W08955.824
WEIZZ	N390855.71	W0895507.12	N3908.929	W08955.119
RW14L	N383322.31	W0895000.59	N3833.372	W08950.010
RW14R	N383306.58	W0895142.99	N3833.110	W08951.717
RW32L	N383210.61	W0895035.44	N3832.177	W08950.591
RW32R	N383210.54	W0894834.04	N3832.176	W08948.567

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW14L	00441	55
RW14R	00459	51
RW32L	00437	57
RW32R	00442	55

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        SKE   K5011220 TTW                   SKE N38324332W089510593E0020004400     NARSCOTT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUUDD K50    W     N39144716W089432549                     W0016     NAR           BUUDD
        SUSAEAENRT   JULYA K50    W     N38583331W089573926                     W0013     NAR           JULYA
        SUSAEAENRT   PAMMM K50    W     N38481891W089554944                     W0013     NAR           PAMMM
        SUSAEAENRT   SUGAR K50    C   L N38312748W089492808                     W0014     NAR           SUGAR
        SUSAEAENRT   WEIZZ K50    W     N39085571W089550712                     W0014     NAR           WEIZZ

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCPSK5ACPS     0     070YHN38341330W090091830E000000413         1800018000C    MNAR    ST LOUIS DOWNTOWN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCPSK5EBUUDD15       010BUUDDK5EA0E       IF                                  12000     18000
        SUSAP KCPSK5EBUUDD15       020WEIZZK5EA0EE   010TF                     23530108
        SUSAP KCPSK5EBUUDD16RW12R 010WEIZZK5EA0E       IF                                            18000
        SUSAP KCPSK5EBUUDD16RW12R 020JULYAK5EA0E    010TF                     18880106
        SUSAP KCPSK5EBUUDD16RW12R 030PAMMMK5EA0EY   010TF                     17000103
        SUSAP KCPSK5EBUUDD16RW12R 040PAMMMK5EA0EE      FM SKE K5      344701601830    D
        SUSAP KCPSK5EBUUDD16RW30B 010WEIZZK5EA0E       IF                                            18000
        SUSAP KCPSK5EBUUDD16RW30B 020JULYAK5EA0E    010TF                     18880106
        SUSAP KCPSK5EBUUDD16RW30B 030PAMMMK5EA0E    010TF                     17000103
        SUSAP KCPSK5EBUUDD16RW30B 040SUGARK5EA0EY   010TF                     16150176
        SUSAP KCPSK5EBUUDD16RW30B 050SUGARK5EA0EE      FM SKE K5      132600182300    D

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KCPSK5GRW12R   0070021222 N38342641W090095423-0100    +0094800412000050150R
        SUSAP KCPSK5GRW30L   0070023022 N38334951W090083965+0100    +0093500408000055150IICPS1
        SUSAP KCPSK5GRW30R   0053013022 N38335765W090083309+0100    +0093100407000040075R
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

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ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		BUUDD	010		IF		FB				AT 12000	
		WEIZZ	020		TF		FB	1.0	235.3()	010.8		
	RW12R	WEIZZ	010		IF		FB					
	RW12R	JULYA	020		TF		FB	1.0	188.8()	010.6		
	RW12R	PAMMM	030		TF		FO	1.0	170.0()	010.3		
	RW12R	PAMMM	040		FM		FB		183.0()			
	RW30B	WEIZZ	010		IF		FB					
	RW30B	JULYA	020		TF		FB	1.0	188.8()	010.6		
	RW30B	PAMMM	030		TF		FB	1.0	170.0()	010.3		
	RW30B	SUGAR	040		TF		FO	1.0	161.5()	017.6		
	RW30B	SUGAR	050		FM		FB		230.0()			

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
SKE (DME)	N383243.32	W0895105.93	N3832.722	W08951.099
BUUDD	N391447.16	W0894325.49	N3914.786	W08943.425
JULYA	N385833.31	W0895739.26	N3858.555	W08957.654
PAMMM	N384818.91	W0895549.44	N3848.315	W08955.824
SUGAR	N383127.48	W0894928.08	N3831.458	W08949.468
WEIZZ	N390855.71	W0895507.12	N3908.929	W08955.119
RW12R	N383426.41	W0900954.23	N3834.440	W09009.904
RW30L	N383349.51	W0900839.65	N3833.825	W09008.661
RW30R	N383357.65	W0900833.09	N3833.961	W09008.552

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW12R	00412	50
RW30L	00408	55
RW30R	00407	40

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CSX   K3011645VDHW N38450988W090213946    N38450988W090213946E0000005302     NARCARDINAL
        SUSAD        FTZ   K3011080VTL  N38413958W090581617    N38413958W090581617E0050008181     NARFORISTELL
        SUSAD        SKE   K5011220 TTW                    SKE N38324332W089510593E0020004400     NARSCOTT
        SUSAD        STL   K3011740VTHA N38513848W090285652    N38513848W090285652E0010004502     NARST LOUIS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUUDD K50    W     N39144716W089432549                      W0016     NAR           BUUDD
        SUSAEAENRT   DSETH K30    W     N38525775W090144195                      W0011     NAR           DSETH
        SUSAEAENRT   EERRR K50    W     N39040551W090044324                      W0013     NAR           EERRR
        SUSAEAENRT   WEIZZ K50    W     N39085571W089550712                      W0014     NAR           WEIZZ

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUSK3ASUS     0     074YHN38394360W090390740E002000463         1800018000C    MNAR    SPIRIT OF ST LOUIS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUSK3EBUUDD15      010BUUDDK5EA0E       IF                                  12000     18000
        SUSAP KSUSK3EBUUDD15      020WEIZZK5EA0EE   010TF                     23530108
        SUSAP KSUSK3EBUUDD16RW08B 010WEIZZK5EA0E       IF                                            18000
        SUSAP KSUSK3EBUUDD16RW08B 020STL  K3D 0V    010TF                     23500315
        SUSAP KSUSK3EBUUDD16RW08B 030FTZ  K3D 0VY   010TF                     24470250
        SUSAP KSUSK3EBUUDD16RW08B 040FTZ  K3D 0VE  L   FMYSKE K5      278005341460    D
        SUSAP KSUSK3EBUUDD16RW26B 010WEIZZK5EA0E       IF                                            18000
        SUSAP KSUSK3EBUUDD16RW26B 020EERRRK5EA0E    010TF                     23520089
        SUSAP KSUSK3EBUUDD16RW26B 030DSETHK3EA0E    010TF                     21300136
        SUSAP KSUSK3EBUUDD16RW26B 040CSX  K3D 0VY   010TF                     21300095
        SUSAP KSUSK3EBUUDD16RW26B 050CSX  K3D 0VE      FM SKE K5      295602702120    D

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUSK3GRW08L   0050000761 N38395090W090400582+0000    +0109900463000041075R
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

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```
SUSAP KSUSK3GRW08R   0074860761 N38392771W090393509+0000    +0109400461000055150IISUS1
SUSAP KSUSK3GRW26L   0074862561 N38394201W090380869+0000    +0109600462048155150IIFZU1
SUSAP KSUSK3GRW26R   0050002561 N38400111W090390414+0000    +0109900463000047075R
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		BUUDD	010		IF		FB				AT 12000	
		WEIZZ	020		TF		FB	1.0	235.3()	010.8		
	RW08B	WEIZZ	010		IF		FB					
	RW08B	STL	020		TF		FB	1.0	235.0()	031.5		
	RW08B	FTZ	030		TF		FO	1.0	244.7()	025.0		
	RW08B	FTZ	040		FM	L	FB		146.0()			
	RW26B	WEIZZ	010		IF		FB					
	RW26B	EERRR	020		TF		FB	1.0	235.2()	008.9		
	RW26B	DSETH	030		TF		FB	1.0	213.0()	013.6		
	RW26B	CSX	040		TF		FO	1.0	213.0()	009.5		
	RW26B	CSX	050		FM		FB		212.0()			

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
CSX	N384509.88	W0902139.46	N3845.165	W09021.658
FTZ	N384139.58	W0905816.17	N3841.660	W09058.270
SKE (DME)	N383243.32	W0895105.93	N3832.722	W08951.099
STL	N385138.48	W0902856.52	N3851.641	W09028.942
BUUDD	N391447.16	W0894325.49	N3914.786	W08943.425
DSETH	N385257.75	W0901441.95	N3852.963	W09014.699
EERRR	N390405.51	W0900443.24	N3904.092	W09004.721
WEIZZ	N390855.71	W0895507.12	N3908.929	W08955.119
RW08L	N383950.90	W0904005.82	N3839.848	W09040.097
RW08R	N383927.71	W0903935.09	N3839.462	W09039.585
RW26L	N383942.01	W0903808.69	N3839.700	W09038.145
RW26R	N384001.11	W0903904.14	N3840.019	W09039.069

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW08L	00463	41
RW08R	00461	55
RW26L	00462	55
RW26R	00463	47

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
BUUDD RNAV	ONE	BUUDD.BUUDD1	NONE		

RADIO FIX AND HOLDING DATA RECORD

NAME: BUUDD **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 391447.16N/0894325.49W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: DSETH **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385257.75N/0901441.95W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: DUTMY **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 382901.49N/0893345.22W **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	277.48	281.48	19.40	19.40		2000	17500
2	VANDALIA	VLA	VORTAC	L	203.31	207.31	41.11	41.11		2000	17500
3	SCOTT	SKE	TACAN	T	103.09	105.09	14.11	14.11		2000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VLA	VORTAC	R-203	42	2000	17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	ENL	VORTAC	277.48	277.48	R	1-1 1/2		2000	17500	7	18
2	E		WP	099.48	279.48	R		5	2000	14000	6	11
3	E	SKE	TACAN	103.09	283.09	R		5	3000	17500	6	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	STACK (17-020237)	381645.37N/0894000.85W	1139	5D
1	230	TOWER (17-002661)	382602.00N/0891855.00W	935	5D
2	230	TOWER (17-001976)	382358.00N/0892549.00W	770	5D
3	230	TOWER (17-001976)	382358.00N/0892549.00W	770	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2200.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
HOLDING PATTERN 3 IS UNCHARTED ARRIVAL HOLDING FOR KBLV TACAN PROCEDURES, PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V44	1, 2				
IAP	ILS OR LOC/DME RWY 14L	1, 2	1	KBLV	BELLEVILLE	IL (US)
IAP	RNAV (GPS) RWY 14L		2	KBLV	BELLEVILLE	IL (US)
IAP	RNAV (GPS) RWY 32L			KBLV	BELLEVILLE	IL (US)
IAP	TACAN RWY 14R	3		KBLV	BELLEVILLE	IL (US)
IAP	TACAN RWY 32L	3		KBLV	BELLEVILLE	IL (US)
STAR	FARMR (RNAV)			KALN	ALTON/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	CENTRALIA (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	FARMR (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	FARMR (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED REQUIRED CHARTING.
CHANGED FAC 2 MAG BRG/TRUE BRG FROM 203.30/207.30 TO 203.31/207.31.
CHANGED FAC 3 DME FROM 41.10 TO 41.11.
CHANGED FAC 3 DIST FROM FAC NM FROM 41.10 TO 41.11.
CHANGED HOLDING PAT 1 MAX TEMPLATE FROM 22 TO 18.
CHANGED HOLDING PAT 3 MAX TEMPLATE FROM 20 TO 16.

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON, SCOTT ATCT
OTHER: HQ AMC

RADIO FIX AND HOLDING DATA RECORD

NAME: EERRR **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 390405.51N/0900443.24W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 384139.58N/0905816.17W **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	FORISTELL	FTZ	VORTAC	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	FTZ	VORTAC	280.00	100.00	R	1-1 1/2		2400	17500	4	16
2	N	FTZ	VORTAC	004.40	184.40	R	1		2400	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (29-001518)	385020.00N/0910241.00W	1251	5E
1	200	TOWER (29-020480)	384257.11N/0910756.62W	1107	1A
2	200	AAO	384236.00N/0910233.00W	1086	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2500.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J180					(US)
EN ROUTE	J187					(US)
EN ROUTE	T251					(US)
EN ROUTE	V12		1			(US)
EN ROUTE	V44					(US)
IAP	RNAV (GPS) RWY 24			KFTT	FULTON	MO (US)
IAP	VOR-A		1	K1H0	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 11			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12L			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12R			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 24		1	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 6			KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 11 (CAT II, III)			KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 12L (CAT II, III)			KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 11 (CAT II, III)			KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 12L (CAT II, CAT III)			KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 6			KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) Y RWY 12R			KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 30L			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 26L		1	KSUS	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 8R		1	KSUS	ST LOUIS	MO (US)
IAP	NDB RWY 26L		1	KSUS	ST LOUIS	MO (US)
IAP	NDB RWY 8R		1	KSUS	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 8L			KSUS	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 8R			KSUS	ST LOUIS	MO (US)
IAP	VOR-A		2	KFYG	WASHINGTON	MO (US)
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BENKY (RNAV)			KORD	CHICAGO	IL (US)
STAR	BRADFORD			KORD	CHICAGO	IL (US)
STAR	RIVERS			KSTL	ST LOUIS	MO (US)
STAR	TRAKE			KSTL	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED HOLDING PAT 1 CONTROLLING OBSTACLE DATA (NEW OBSTACLE).
CHANGED HOLDING PAT 2 CONTROLLING OBSTACLE ACCURACY FROM 5E TO 4E.

DEVELOPED BY:	**DATE:** 05/22/2012	**OFFICE:** AJV-353	**NAME:** DONALD LANIER
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

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

RADIO FIX AND HOLDING DATA RECORD

NAME: JULYA **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 385833.31N/0895739.26W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: PAMMM **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 384818.91N/0895549.44W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	FARMR (RNAV)			KALN	ALTON/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	FARMR (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	FARMR (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ST LOUIS VORTAC **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385138.48N/0902856.52W **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	ST LOUIS	STL	VORTAC	H							45000

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

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 18000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CARDS			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	LINDBERGH			KALN	ALTON/ST LOUIS	IL (US)
DP	OZARK			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	CARDS			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	LINDBERGH			KBLV	BELLEVILLE	IL (US)
DP	OZARK			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	CARDS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	GATEWAY			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	LINDBERGH			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	OZARK			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	ROCKY			KEYE	INDIANAPOLIS	IN (US)
DP	ROCKY			KHFY	INDIANAPOLIS	IN (US)
DP	ROCKY			KIND	INDIANAPOLIS	IN (US)
DP	ROCKY			KMQJ	INDIANAPOLIS	IN (US)
DP	ROCKY			KTYQ	INDIANAPOLIS	IN (US)
DP	ROCKY			KUMP	INDIANAPOLIS	IN (US)
DP	ROCKY			KGEZ	SHELBYVILLE	IN (US)
DP	LAKES			KFLV	FORT LEAVENWORTH	KS (US)
DP	LAKES			KIXD	OLATHE	KS (US)
DP	LAKES			KOJC	OLATHE	KS (US)
DP	LAKES			KMCI	KANSAS CITY	MO (US)
DP	LAKES			KMKC	KANSAS CITY	MO (US)
DP	LAKES			KSTJ	ST JOSEPH	MO (US)
DP	CARDS			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSTL	ST LOUIS	MO (US)
DP	OZARK			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	CARDS			KSUS	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	LINDBERGH			KSUS	ST LOUIS	MO (US)
DP	OZARK			KSUS	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	TITAN (OBSTACLE)			KBNA	NASHVILLE	TN (US)
EN ROUTE	J101					(US)
EN ROUTE	J110					(US)
EN ROUTE	J134					(US)
EN ROUTE	J151					(US)
EN ROUTE	J19					(US)
EN ROUTE	J233					(US)
EN ROUTE	J24					(US)
EN ROUTE	J35					(US)
EN ROUTE	J45					(US)
EN ROUTE	J8					(US)
EN ROUTE	V125					(US)
EN ROUTE	V14					(US)
EN ROUTE	V335					(US)
EN ROUTE	V4					(US)
EN ROUTE	V52					(US)
EN ROUTE	V580					(US)
EN ROUTE	V582					(US)
EN ROUTE	V9					(US)
IAP	ILS OR LOC RWY 29			KALN	ALTON/ST LOUIS	IL (US)
IAP	LOC BC RWY 11			KALN	ALTON/ST LOUIS	IL (US)
IAP	NDB RWY 17			KALN	ALTON/ST LOUIS	IL (US)
IAP	VOR-A			KALN	ALTON/ST LOUIS	IL (US)
IAP	VOR RWY 18			KSET	ST CHARLES	MO (US)

IAP	VOR-A	K1H0	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 11 (CAT I/II/III)	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12L (CAT I/II/III)	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12R	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 24	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 29	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 30L	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 30R (CAT I/II/III)	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 6	KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 11 (CAT I, II, III) (SIM CLOSE PAR)	KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 12L (CAT I, II, III) (SIM CLOSE PAR)	KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 29 (SIM CLOSE PAR)	KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 30R (CAT I, II, III) (SIM CLOSE PAR)	KSTL	ST LOUIS	MO (US)
IAP	LDA PRM RWY 30L (SIM CLOSE PAR)	KSTL	ST LOUIS	MO (US)
IAP	LDA/DME RWY 30L	KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 12R	KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 30L	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 26L	KSUS	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 8R	KSUS	ST LOUIS	MO (US)
IAP	NDB RWY 26L	KSUS	ST LOUIS	MO (US)
IAP	NDB RWY 8R	KSUS	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)	KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)	KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BENKY (RNAV)	KORD	CHICAGO	IL (US)
STAR	BRADFORD	KORD	CHICAGO	IL (US)
STAR	QBALL	KSTL	ST LOUIS	MO (US)
STAR	TRAKE	KSTL	ST LOUIS	MO (US)
STAR	VANDALIA	KSTL	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)	KSUS	ST LOUIS	MO (US)
STAR	GAILL (RNAV)	KCMH	COLUMBUS	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17 **DATE OF REVISION:** 10/20/2011

REASON FOR REVISION:
REMOVED HOLDING PATTERN 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/25/2011 **OFFICE:** AJV-353 **NAME:** BEV L BORDY

APPROVED BY: **DATE:** 09/01/2011 **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SUGAR **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 383127.48N/0894928.08W **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	277.48	281.48	31.97	31.97		2300	17500
2	TROY	TOY	VORTAC	L	157.00	161.00	13.62	13.62		2300	17500

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

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	E	ENL	VORTAC	277.48	277.48	L	1-1 1/2		3000	17500	6	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (17-000859)	383641.00N/0894530.00W	917	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ADJACENT AIRWAY AIRSPACE

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V44	1, 2	1			(US)
IAP	RNAV (GPS) RWY 30L			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	RNAV (GPS) RWY 30R			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	RNAV (GPS) Y RWY 30L			KSTL	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
UPDATED FIX USE
UPDATED REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: TROY VORTAC **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 384420.94N/0895506.93W **TYPE:**

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	TROY	TOY	VORTAC	L							17500

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

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	NW	TOY	VORTAC	300.00	120.00	R	1		2300	6000	4	5
2	E	TOY	VORTAC	090.00	270.00	R	1		3000	6000	4	5
3	W		WP	262.00	082.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	ARCH (29-000289)	383729.00N/0901108.00W	1075	3C
1	200	TOWER (17-000440)	384101.37N/0900004.01W	1038	2C
2	200	TOWER (17-000590)	384706.00N/0895910.00W	1036	4D
3	200	TOWER (17-000440)	384101.37N/0900004.01W	1038	2C

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2500.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
EN ROUTE	V12					(US)
EN ROUTE	V191					(US)
EN ROUTE	V238					(US)
EN ROUTE	V4-52					(US)
EN ROUTE	V52-446					(US)
EN ROUTE	V69					(US)
EN ROUTE	V88					(US)
EN ROUTE	V4					IL (US)
IAP	ILS OR LOC RWY 29			KALN	ALTON/ST LOUIS	IL (US)
IAP	LOC BC RWY 11			KALN	ALTON/ST LOUIS	IL (US)
IAP	NDB RWY 17			KALN	ALTON/ST LOUIS	IL (US)
IAP	RNAV (GPS) RWY 17		3	KALN	ALTON/ST LOUIS	IL (US)
IAP	RNAV (GPS) RWY 29			KALN	ALTON/ST LOUIS	IL (US)
IAP	VOR-A			KALN	ALTON/ST LOUIS	IL (US)
IAP	ILS OR LOC RWY 14R			KBLV	BELLEVILLE	IL (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 14L			KBLV	BELLEVILLE	IL (US)
IAP	RNAV (GPS) RWY 14R			KBLV	BELLEVILLE	IL (US)
IAP	ILS OR LOC RWY 30L			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	RNAV (GPS) RWY 30L			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	RNAV (GPS) RWY 30R			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	RNAV (GPS) RWY 18			KGRE	GREENVILLE	IL (US)
IAP	VOR OR GPS-A		1	K3K6	ST JACOB	IL (US)
IAP	VOR RWY 18			KSET	ST CHARLES	MO (US)
IAP	ILS OR LOC RWY 11			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12L		2	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12R			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 24			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 29			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 30L			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 30R		2	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 6			KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 11 (SIM CLOSE PAR) (CAT I, II, III)			KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 12L (SIM CLOSE PAR) (CAT I, II, III)		2	KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 29 (SIM CLOSE PAR)			KSTL	ST LOUIS	MO (US)
IAP	ILS PRM RWY 30R (SIM CLOSE PAR) (CAT I, II, III)		2	KSTL	ST LOUIS	MO (US)

IAP	ILS RWY 11 (CAT II, III)		KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 12L (CAT II & III)	2	KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 30R (CAT II, III)	2	KSTL	ST LOUIS	MO (US)
IAP	LDA PRM RWY 30L (SIM CLOSE PAR)		KSTL	ST LOUIS	MO (US)
IAP	LDA/DME RWY 30L		KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 24		KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) Y RWY 12L	3	KSTL	ST LOUIS	MO (US)
IAP	RNAV (RNP) Z RWY 12L	3	KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 12R		KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 26L		KSUS	ST LOUIS	MO (US)
IAP	NDB RWY 26L		KSUS	ST LOUIS	MO (US)
STAR	FARMR (RNAV)		KALN	ALTON/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)		KBLV	BELLEVILLE	IL (US)
STAR	CENTRALIA (RNAV)		KBLV	BELLEVILLE	IL (US)
STAR	FARMR (RNAV)		KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)		KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	FARMR (RNAV)		KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	QBALL		KSTL	ST LOUIS	MO (US)
STAR	VANDALIA		KSTL	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)		KSUS	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FACILITY COORDINATES CHANGED TO NEW SURVEY DATA, UPDATED COORDINATES.
FIX MOVED 10.74 FT EAST.

DEVELOPED BY: **DATE:** 06/19/2012 **OFFICE:** AJV-353 **NAME:** JON DENTON

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: WEIZZ **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 390855.71N/0895507.12W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPS	CAHOKIA/ST LOUIS	IL (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/22/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

Name:	enanders
Project Name:	
Output File:	STAR BUUDD DUTMY 20120716_1416
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/16/2012 2:16:00 PM
Input File:	BUUDD ARRIVAL BUUDD RW32B 20120315.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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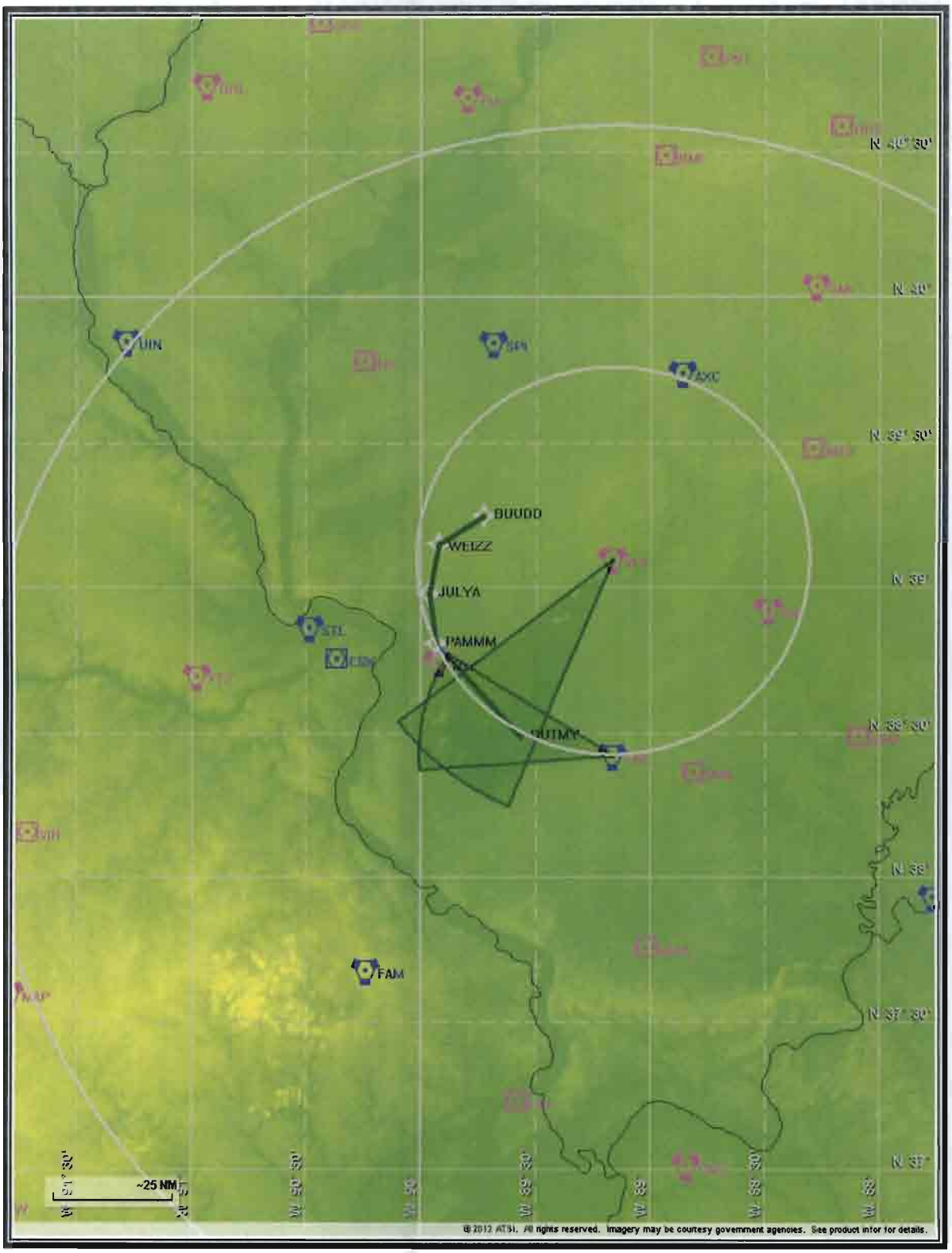
BUUDD
WEIZZ
JULYA
PAMMM
DUTMY
UIN
AXC
STL
FAM
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BUUDD	WP	N 39° 14' 47.16" W 89° 43' 25.49"	2300.0	Step	210.0	Fly By	TF
WEIZZ	WP	N 39° 8' 55.71" W 89° 55' 7.12"	2300.0	Step	180.0	Fly By	TF
JULYA	WP	N 38° 58' 33.31" W 89° 57' 39.26"	2200.0	Step	180.0	Fly By	TF
PAMMM	WP	N 38° 48' 18.91" W 89° 55' 49.44"	2100.0	Step	180.0	Fly By	TF
DUTMY	WP	N 38° 29' 1.49" W 89° 33' 45.22"	2100.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **29000.0 Ft.** **280.0 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:

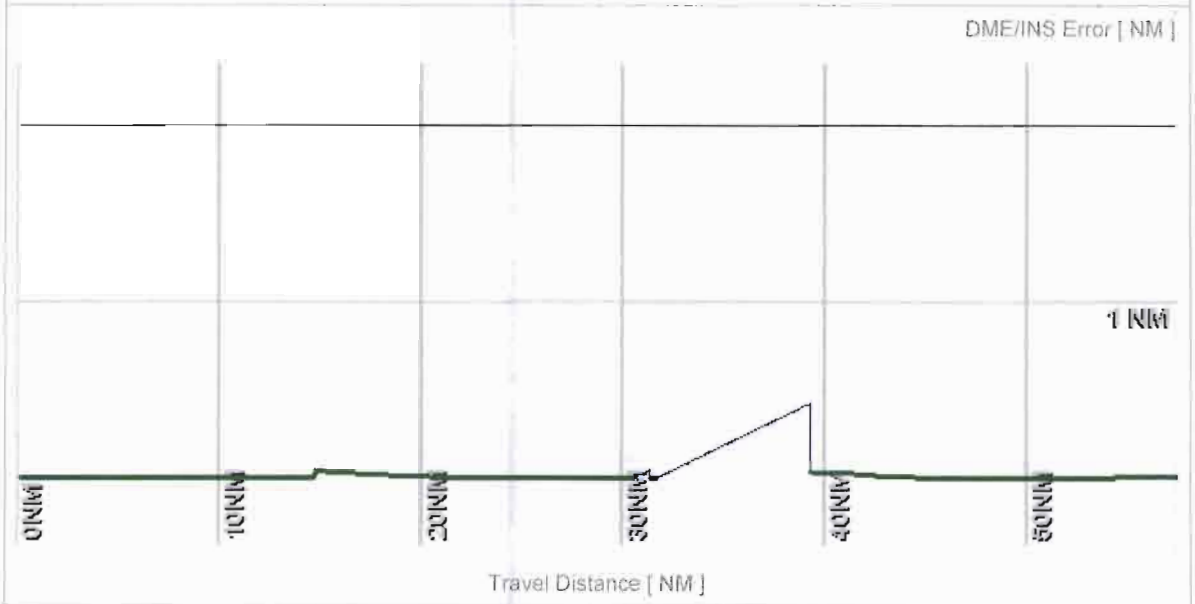
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 5

Maximum DME Error: 0.584 NM.

No Critical DMEs were found.

Available DMEs: VLA, SPI, TOY, STL, CSX, ENL, VNN



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L + ESV	User	NO	1.310	Enabled	57.2 %	57.2 %
2	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	1.586	Enabled	82.3 %	82.3 %
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	Database	NO	0.757	Enabled	24.3 %	24.3 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.637	Enabled	3.9 %	3.9 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	0.586	Enabled	3.0 %	3.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VLA	TOY	STL	SPI		
10.1	VLA	TOY	STL			
20.8	CSX	TOY	STL			
31.0	CSX	TOY	STL	VLA	ENL	
41.1	VNN	TOY	ENL	VLA		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 49' 21.84" W 89° 56' 0.72"	N 38° 48' 35.79" W 89° 55' 51.00"	0.8

VOR: CSX	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 35.79" W 89° 55' 51.00"
VOR: STL	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 35.79" W 89° 55' 51.00"
VOR: TOY	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 35.79" W 89° 55' 51.00"
VOR: VLA	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 35.79" W 89° 55' 51.00"

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 48' 14.27" W 89° 55' 39.57"	N 38° 42' 35.29" W 89° 49' 14.67"	7.6
	VOR: CSX	Available from N 38° 48' 14.27" W 89° 55' 39.57" to N 38° 42' 35.29" W 89° 49' 14.67"	
	VOR: STL	Available from N 38° 48' 14.27" W 89° 55' 39.57" to N 38° 42' 35.29" W 89° 49' 14.67"	
	VOR: TOY	Available from N 38° 48' 14.27" W 89° 55' 39.57" to N 38° 42' 35.29" W 89° 49' 14.67"	
	VOR: VLA	Available from N 38° 48' 14.27" W 89° 55' 39.57" to N 38° 42' 35.29" W 89° 49' 14.67"	
	VOR: ENL	Available from N 38° 45' 58.68" W 89° 53' 8.33" to N 38° 42' 35.29" W 89° 49' 14.67"	

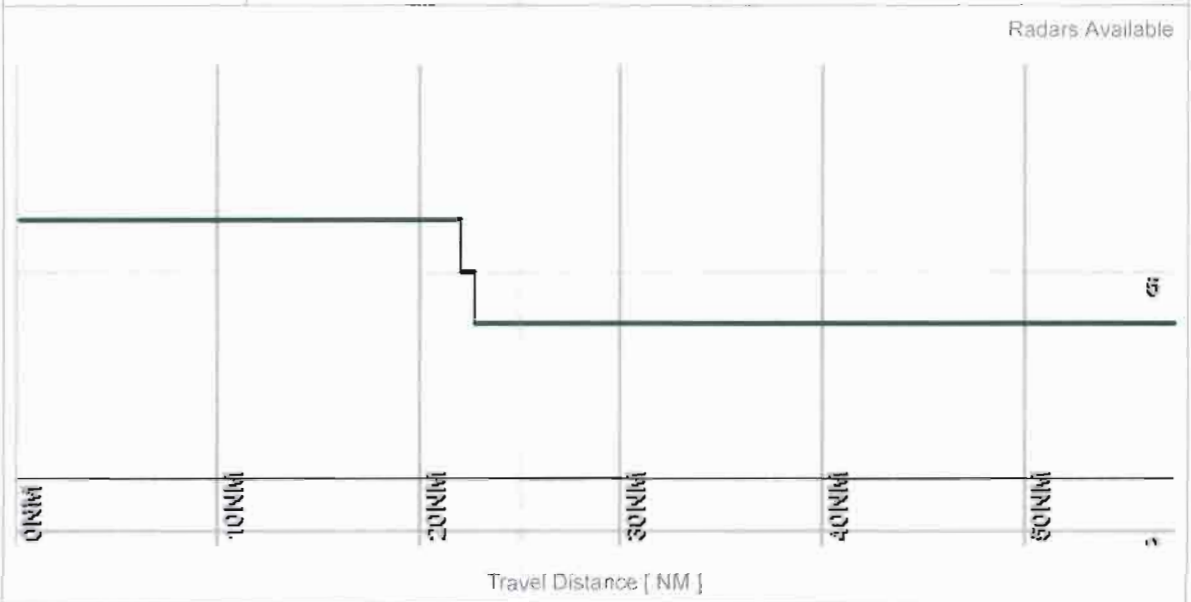
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	545.8	115.00	ENL	Used
		ESV:	Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 262.0° to 298.0°		Arc Distance: Out to 40.0 NM Altitude: 2000.0 to 6000.0 Ft.		
2	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L	610.0	114.30	VLA	Used
		ESV:	Bearing [True]: 203.0° to 233.0° Bearing [Mag]: 199.0° to 229.0°		Arc Distance: Out to 55.0 NM Altitude: 2000.0 to 5000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	enanders
Project Name:	
Output File:	STAR BUUDD SUGAR 20120716_1409
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/16/2012 2:09:48 PM
Input File:	BUUDD ARRIVAL BUUDD RW30B 20120315.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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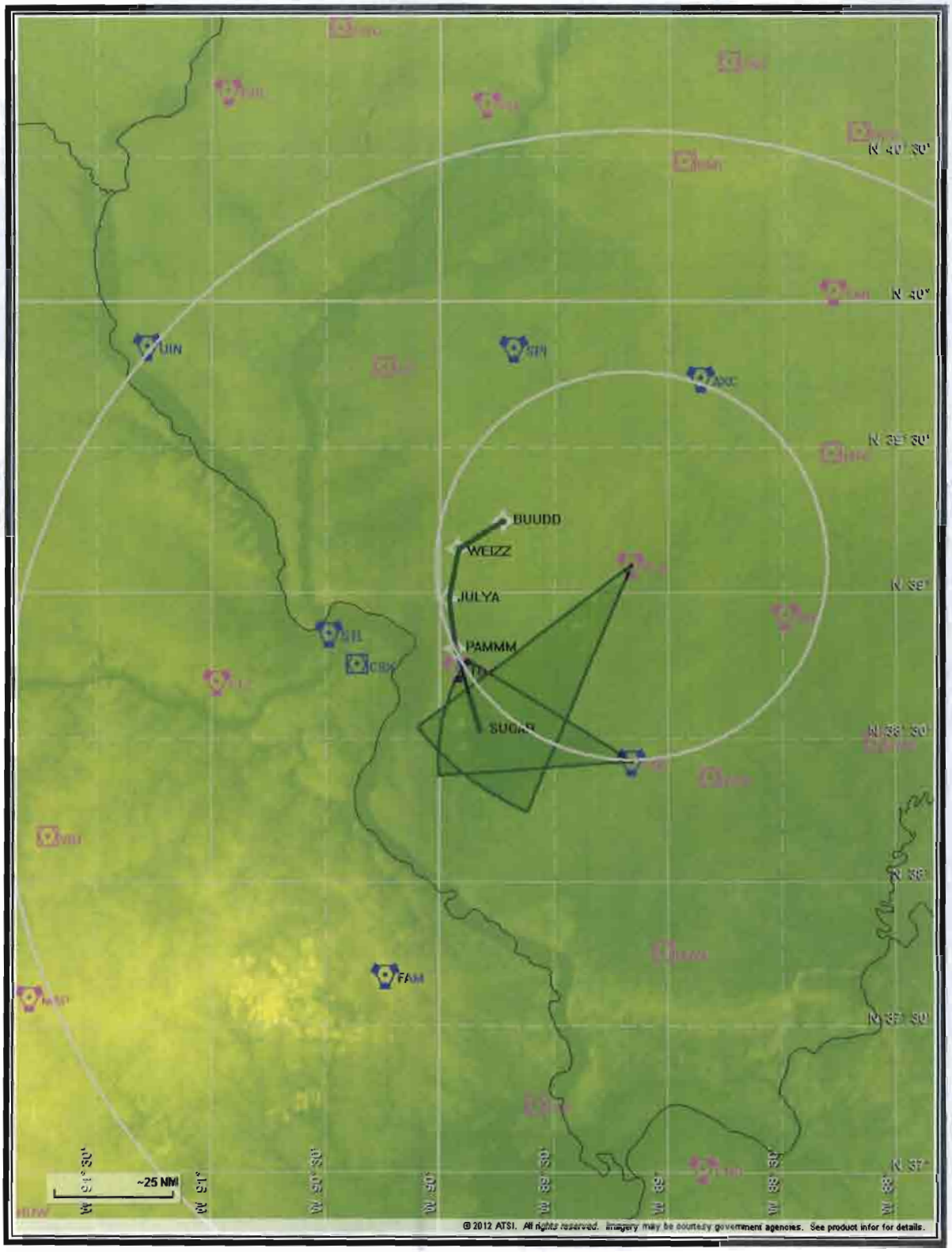
BUUDD
WEIZZ
JULYA
PAMMM
SUGAR
UIN
STN
FAM
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BUUDD	WP	N 39° 14' 47.16" W 89° 43' 25.49"	2300.0	Step	210.0	Fly By	TF
WEIZZ	WP	N 39° 8' 55.71" W 89° 55' 7.12"	2300.0	Step	180.0	Fly By	TF
JULYA	WP	N 38° 58' 33.31" W 89° 57' 39.26"	2200.0	Step	180.0	Fly By	TF
PAMMM	WP	N 38° 48' 18.91" W 89° 55' 49.44"	2100.0	Step	180.0	Fly By	TF
SUGAR	WP	N 38° 31' 27.48" W 89° 49' 28.08"	2100.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **29000.0 Ft.** **280.0 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:

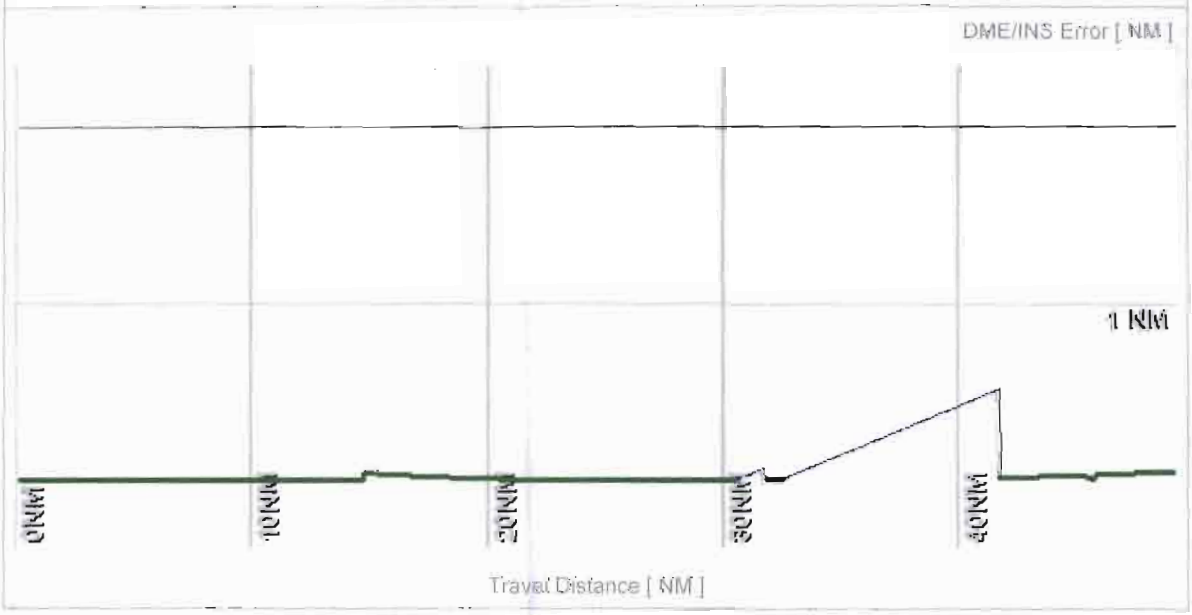
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 4

Maximum DME Error: 0.650 NM.

No Critical DMEs were found.

Available DMEs: VLA, SPI, TOY, STL, CSX, ENL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L + ESV	User	NO	0.911	Enabled	45.1 %	45.1 %
2	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	1.681	Enabled	78.0 %	78.0 %
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	Database	NO	0.757	Enabled	29.1 %	29.2 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.733	Enabled	5.3 %	5.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VLA	TOY	STL	SPI		
10.1	VLA	TOY	STL			
20.8	CSX	TOY	STL			
31.3	CSX	TOY	STL	ENL	VLA	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 49' 21.84" W 89° 56' 0.72"	N 38° 48' 15.91" W 89° 55' 47.73"	1.1
	VOR: CSX	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 15.91" W 89° 55' 47.73"	
	VOR: STL	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 15.91" W 89° 55' 47.73"	
	VOR: TOY	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 15.91" W 89° 55' 47.73"	
	VOR: VLA	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 15.91" W 89° 55' 47.73"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 47' 30.91" W 89° 55' 31.78"	N 38° 38' 39.86" W 89° 52' 10.90"	9.2
	VOR: CSX	Available from N 38° 47' 30.91" W 89° 55' 31.78" to N 38° 38' 39.86" W 89° 52' 10.90"	
	VOR: STL	Available from N 38° 47' 30.91" W 89° 55' 31.78" to N 38° 38' 39.86" W 89° 52' 10.90"	
	VOR: TOY	Available from N 38° 47' 30.91" W 89° 55' 31.78" to N 38° 38' 39.86" W 89° 52' 10.90"	
	VOR: ENL	Available from N 38° 44' 18.98" W 89° 54' 19.05" to N 38° 38' 39.86" W 89° 52' 10.90"	

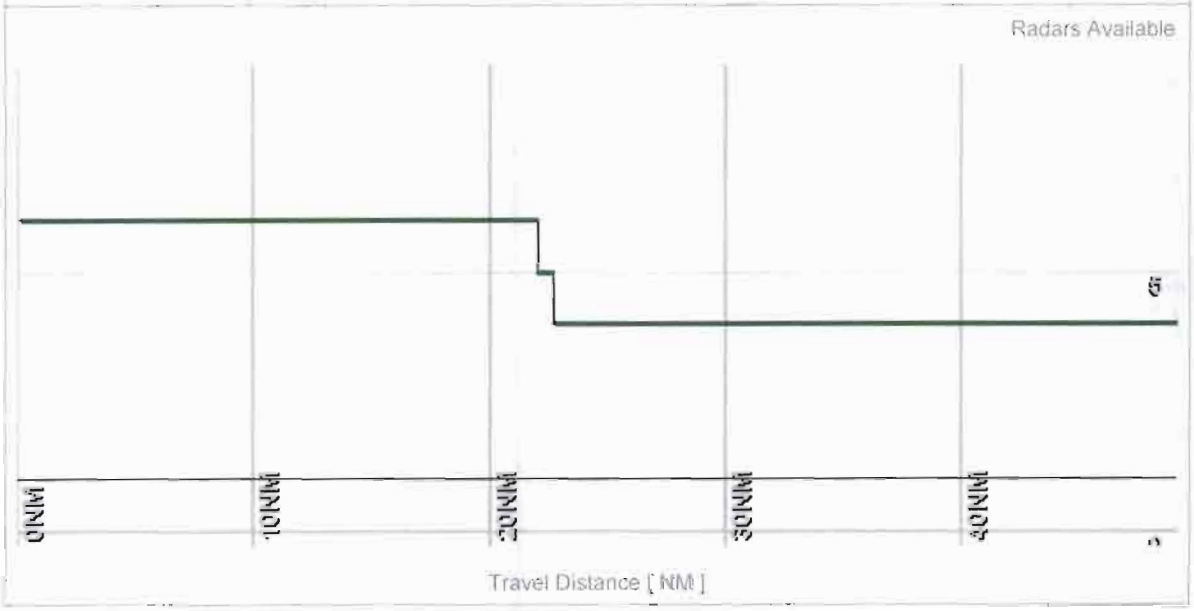
User DMEs

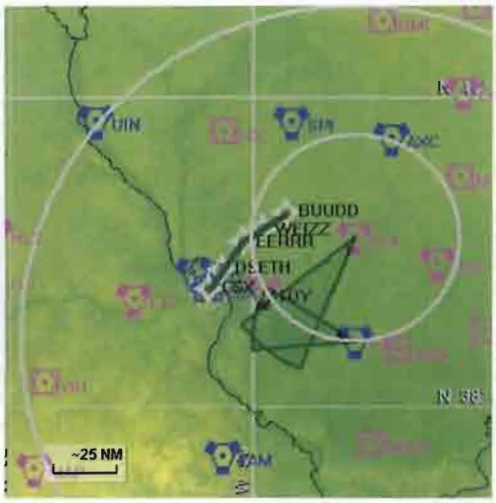
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	545.8	115.00	ENL	Not Used
		ESV:	Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 262.0° to 298.0°		Arc Distance: Out to 40.0 NM Altitude: 2000.0 to 6000.0 Ft.		
2	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L	610.0	114.30	VLA	Used
		ESV:	Bearing [True]: 203.0° to 233.0° Bearing [Mag]: 199.0° to 229.0°		Arc Distance: Out to 55.0 NM Altitude: 2000.0 to 5000.0 Ft.		

Radar Analysis

Return To Summary

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





Name:	enanders
Project Name:	
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Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/16/2012 2:03:31 PM
Input File:	BUUDD ARRIVAL BUUDD RW26B 20120315.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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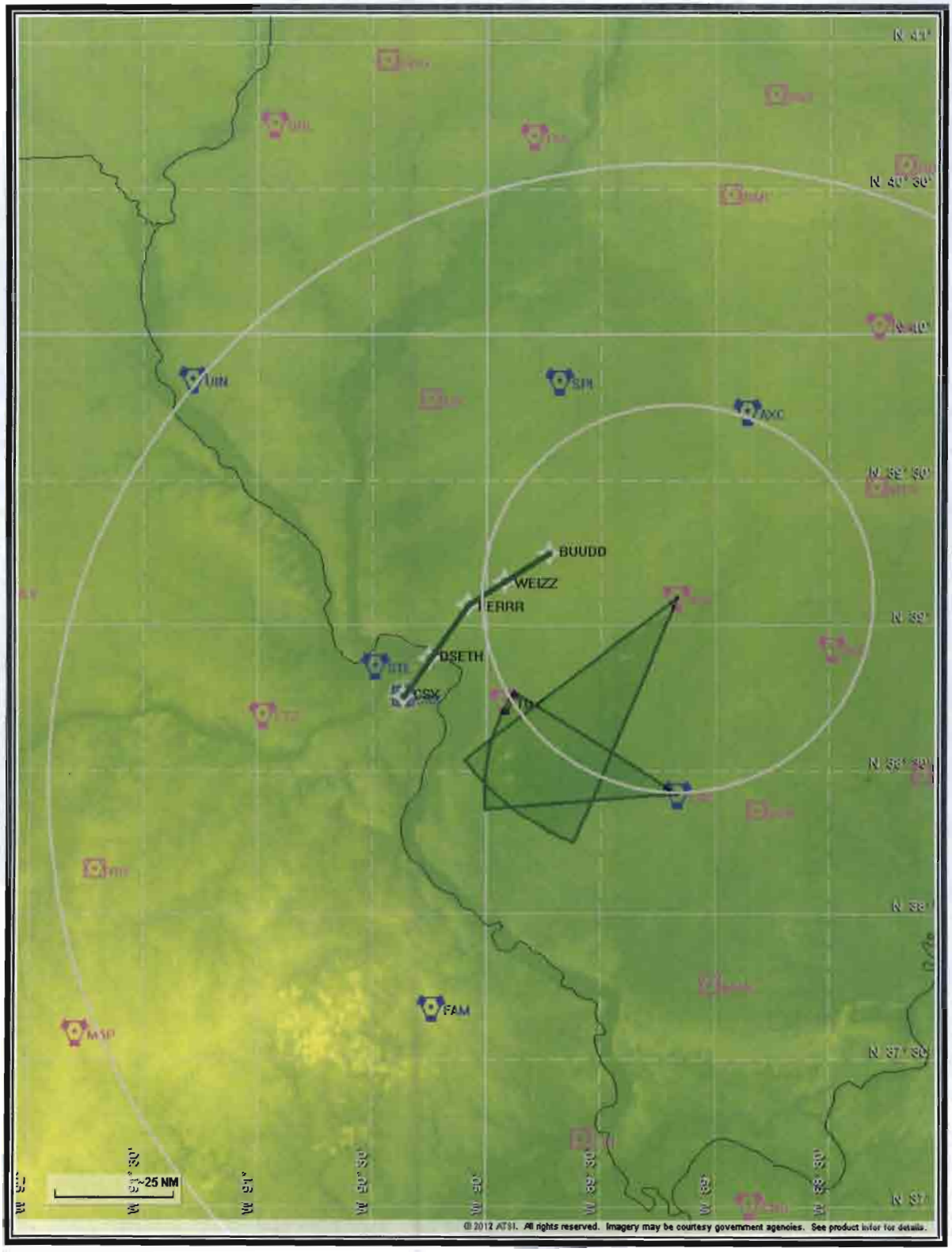
BUUDD
WEIZZ
ERRR
DSETH
CSX
FAM
MSP
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BUUDD	WP	N 39° 14' 47.16" W 89° 43' 25.49"	2300.0	Step	210.0	Fly By	TF
WEIZZ	WP	N 39° 8' 55.71" W 89° 55' 7.12"	2300.0	Step	180.0	Fly By	TF
EERRR	WP	N 39° 4' 5.51" W 90° 4' 43.24"	2300.0	Step	180.0	Fly By	TF
DSETH	WP	N 38° 52' 57.75" W 90° 14' 41.95"	2200.0	Step	180.0	Fly By	TF
CSX	WP	N 38° 45' 9.88" W 90° 21' 39.46"	2100.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **29000.0 Ft.** **280.0 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:

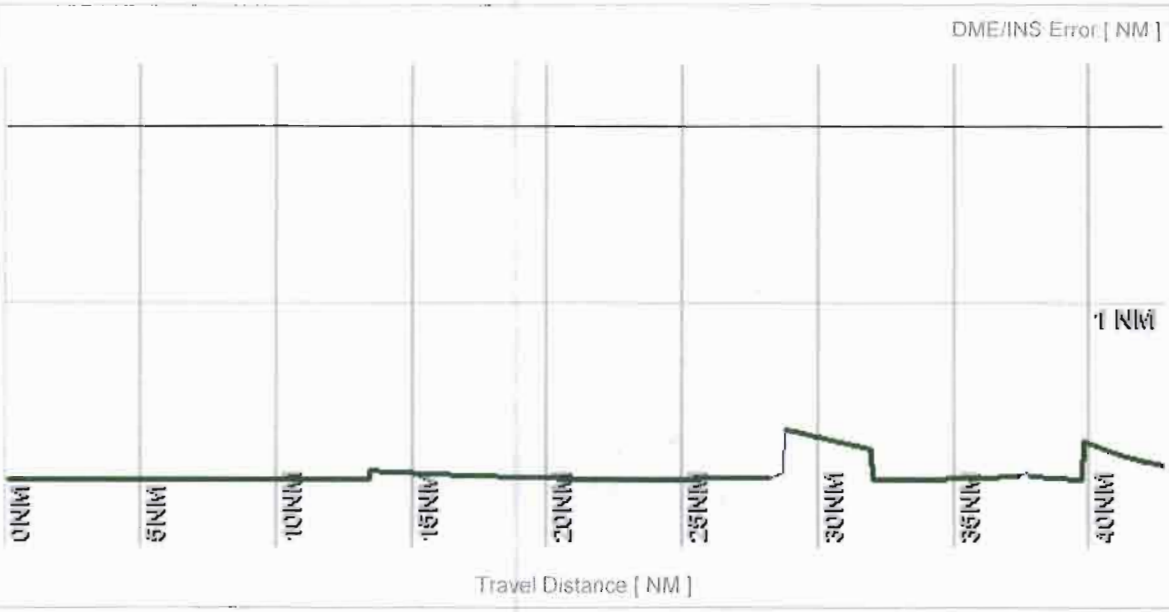
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 5

Maximum DME Error: 0.486 NM.

No Critical DMEs were found.

Available DMEs: VLA, SPI, TOY, STL, CSX, FTZ



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L + ESV	User	NO	0.911	Enabled	31.4 %	31.3 %
2	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	1.395	Enabled	78.6 %	78.5 %
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	Database	NO	0.510	Enabled	50.3 %	50.3 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.586	Enabled	28.3 %	28.3 %
5	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.486	Enabled	7.0 %	7.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VLA	TOY	STL	SPI		
10.8	VLA	TOY	STL	CSX		
19.2	FTZ	TOY	STL	CSX		
33.3	FTZ	TOY	STL	CSX		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 57' 6.21" W 90° 10' 59.77"	N 38° 56' 41.60" W 90° 11' 21.81"	0.5
	VOR: CSX	Available from N 38° 57' 6.21" W 90° 10' 59.77" to N 38° 56' 41.60" W 90° 11' 21.81"	
	VOR: STL	Available from N 38° 57' 6.21" W 90° 10' 59.77" to N 38° 56' 41.60" W 90° 11' 21.81"	
	VOR: TOY	Available from N 38° 57' 6.21" W 90° 10' 59.77" to N 38° 56' 41.60" W 90° 11' 21.81"	
	VOR: FTZ	Available from N 38° 57' 3.48" W 90° 11' 2.22" to N 38° 56' 41.60" W 90° 11' 21.81"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 49' 34.89" W 90° 17' 43.16"	N 38° 49' 18.48" W 90° 17' 57.81"	0.3
	VOR: CSX	Available from N 38° 49' 34.89" W 90° 17' 43.16" to N 38° 49' 18.48" W 90° 17' 57.81"	
	VOR: FTZ	Available from N 38° 49' 34.89" W 90° 17' 43.16" to N 38° 49' 18.48" W 90° 17' 57.81"	
	VOR: STL	Available from N 38° 49' 34.89" W 90° 17' 43.16" to N 38° 49' 18.48" W 90° 17' 57.81"	
	VOR: TOY	Available from N 38° 49' 34.89" W 90° 17' 43.16" to N 38° 49' 18.48" W 90° 17' 57.81"	

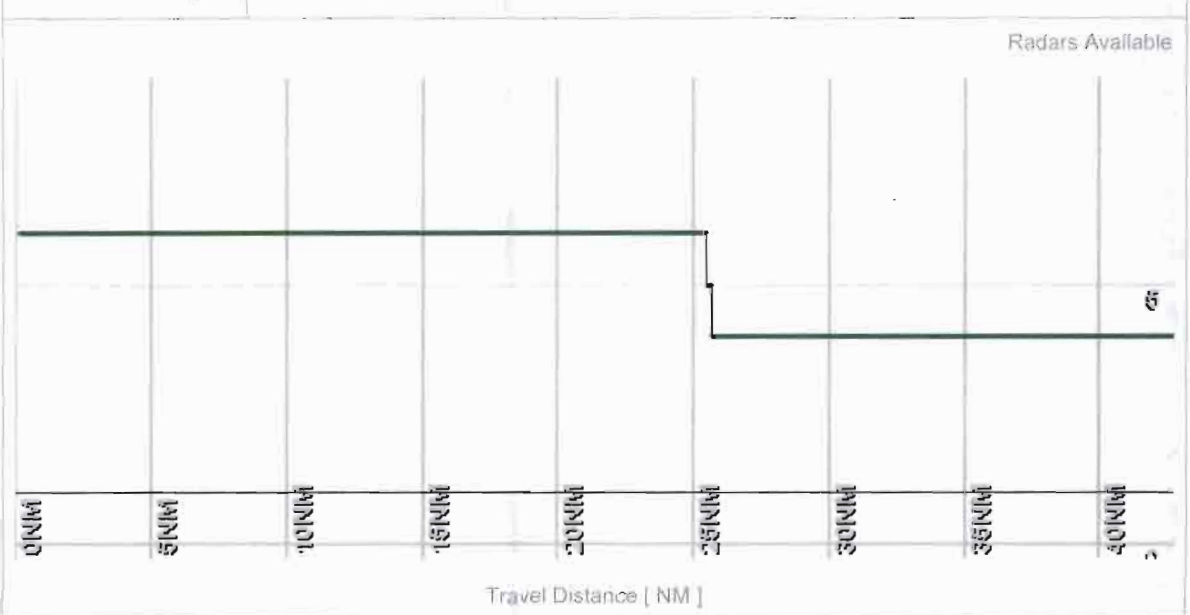
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	545.8	115.00	ENL	Not Used
		ESV:	Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 262.0° to 298.0°		Arc Distance: Out to 40.0 NM Altitude: 2000.0 to 6000.0 Ft.		
2	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L	610.0	114.30	VLA	Used
		ESV:	Bearing [True]: 203.0° to 233.0° Bearing [Mag]: 199.0° to 229.0°		Arc Distance: Out to 55.0 NM Altitude: 2000.0 to 5000.0 Ft.		

Radar Analysis

Return To Summary

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



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Version:	2.36
Date/Time:	7/16/2012 1:50:56 PM
Input File:	BUUDD ARRIVAL BUUDD RW14B 20120315.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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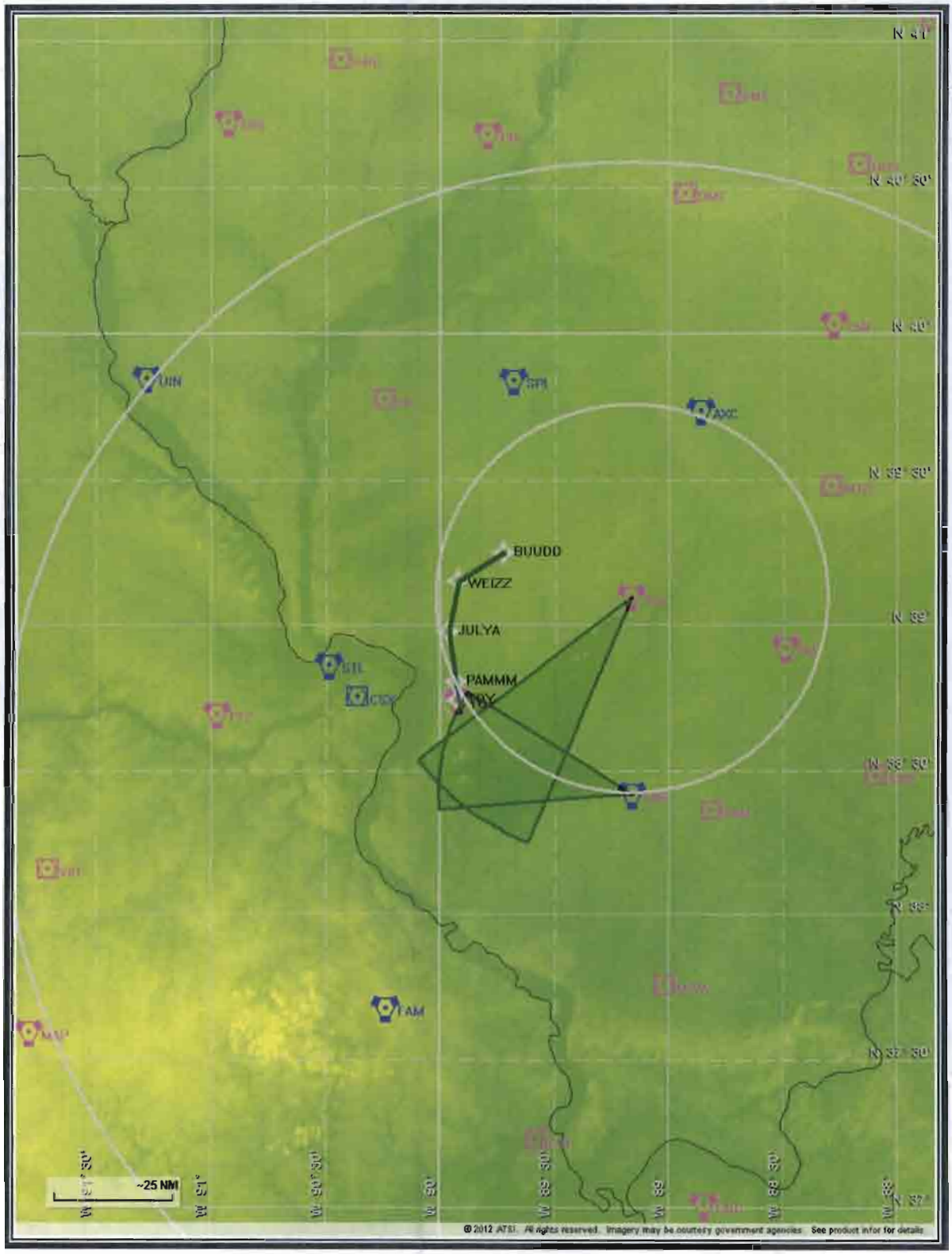
BUUDD
WEIZZ
JULYA
PAMMM
TOY
UIN
GPI
AXC
BIL
AM
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BUUDD	WP	N 39° 14' 47.16" W 89° 43' 25.49"	2300.0	Step	210.0	Fly By	TF
WEIZZ	WP	N 39° 8' 55.71" W 89° 55' 7.12"	2300.0	Step	180.0	Fly By	TF
JULYA	WP	N 38° 58' 33.31" W 89° 57' 39.26"	2200.0	Step	180.0	Fly By	TF
PAMMM	WP	N 38° 48' 18.91" W 89° 55' 49.44"	2100.0	Step	180.0	Fly By	TF
TOY	WP	N 38° 44' 20.97" W 89° 55' 7.06"	2100.0	Step	180.0	Fly Over	TF

Flyability		Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **29000.0 Ft.** **280.0 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:

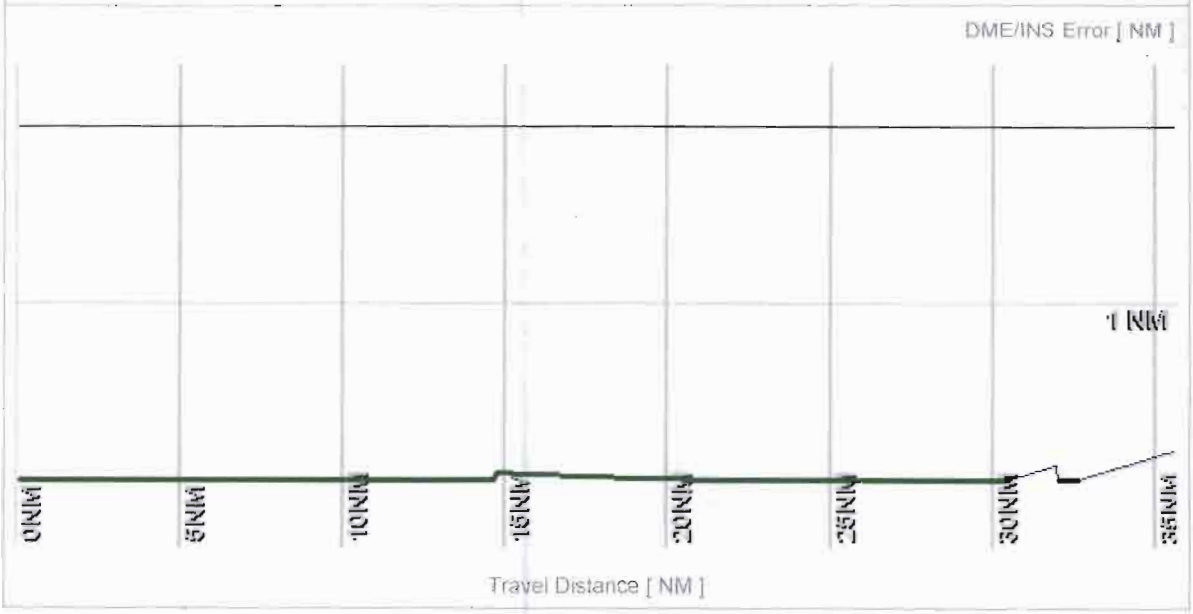
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
  Initial Drift: 0.558 NM
  INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 4

Maximum DME Error: 0.399 NM.

No Critical DMEs were found.

Available DMEs: VLA, SPI, TOY, STL, CSX



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L + ESV	User	NO	0.911	Enabled	41.3 %	41.2 %
2	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	1.439	Enabled	87.4 %	87.4 %
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	Database	NO	0.757	Enabled	39.1 %	39.2 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.491	Enabled	7.0 %	7.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VLA	TOY	STL	SPI		
10.1	VLA	TOY	STL			
20.8	CSX	TOY	STL			
31.6	CSX	TOY	STL			

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 49' 21.84" W 89° 56' 0.72"	N 38° 47' 55.94" W 89° 55' 45.31"	1.4
	VOR: CSX	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 47' 55.94" W 89° 55' 45.31"	
	VOR: STL	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 47' 55.94" W 89° 55' 45.31"	
	VOR: TOY	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 47' 55.94" W 89° 55' 45.31"	
	VOR: VLA	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 2.54" W 89° 55' 46.50"	
2	N 38° 47' 16.28" W 89° 55' 38.23"	N 38° 44' 21.13" W 89° 55' 7.09"	2.9
	VOR: CSX	Available from N 38° 47' 16.28" W 89° 55' 38.23" to N 38° 44' 21.13" W 89° 55' 7.09"	
	VOR: STL	Available from N 38° 47' 16.28" W 89° 55' 38.23" to N 38° 44' 21.13" W 89° 55' 7.09"	
	VOR: TOY	Available from N 38° 47' 16.28" W 89° 55' 38.23" to N 38° 44' 21.13" W 89° 55' 7.09"	

DME/DME (Continued.)

Return To Summary

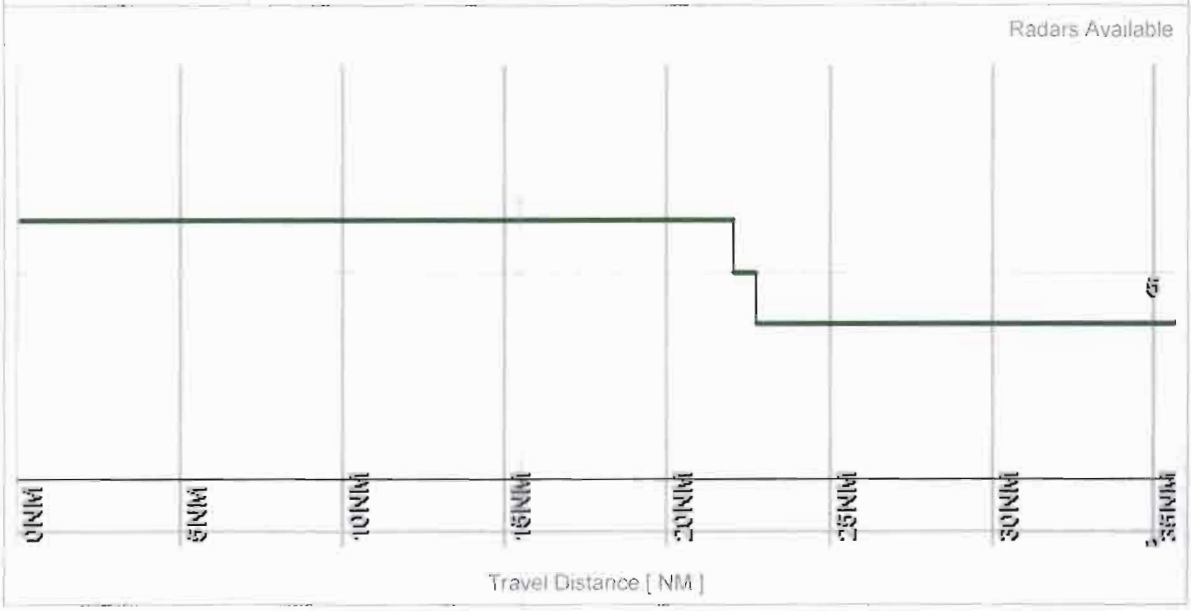
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	545.8	115.00	ENL	Not Used
		ESV:	Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 262.0° to 298.0°		Arc Distance: Out to 40.0 NM Altitude: 2000.0 to 6000.0 Ft.		
2	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L	610.0	114.30	VLA	Used
		ESV:	Bearing [True]: 203.0° to 233.0° Bearing [Mag]: 199.0° to 229.0°		Arc Distance: Out to 55.0 NM Altitude: 2000.0 to 5000.0 Ft.		

Radar Analysis

Return To Summary

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



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Version:	2.36
Date/Time:	7/16/2012 2:19:59 PM
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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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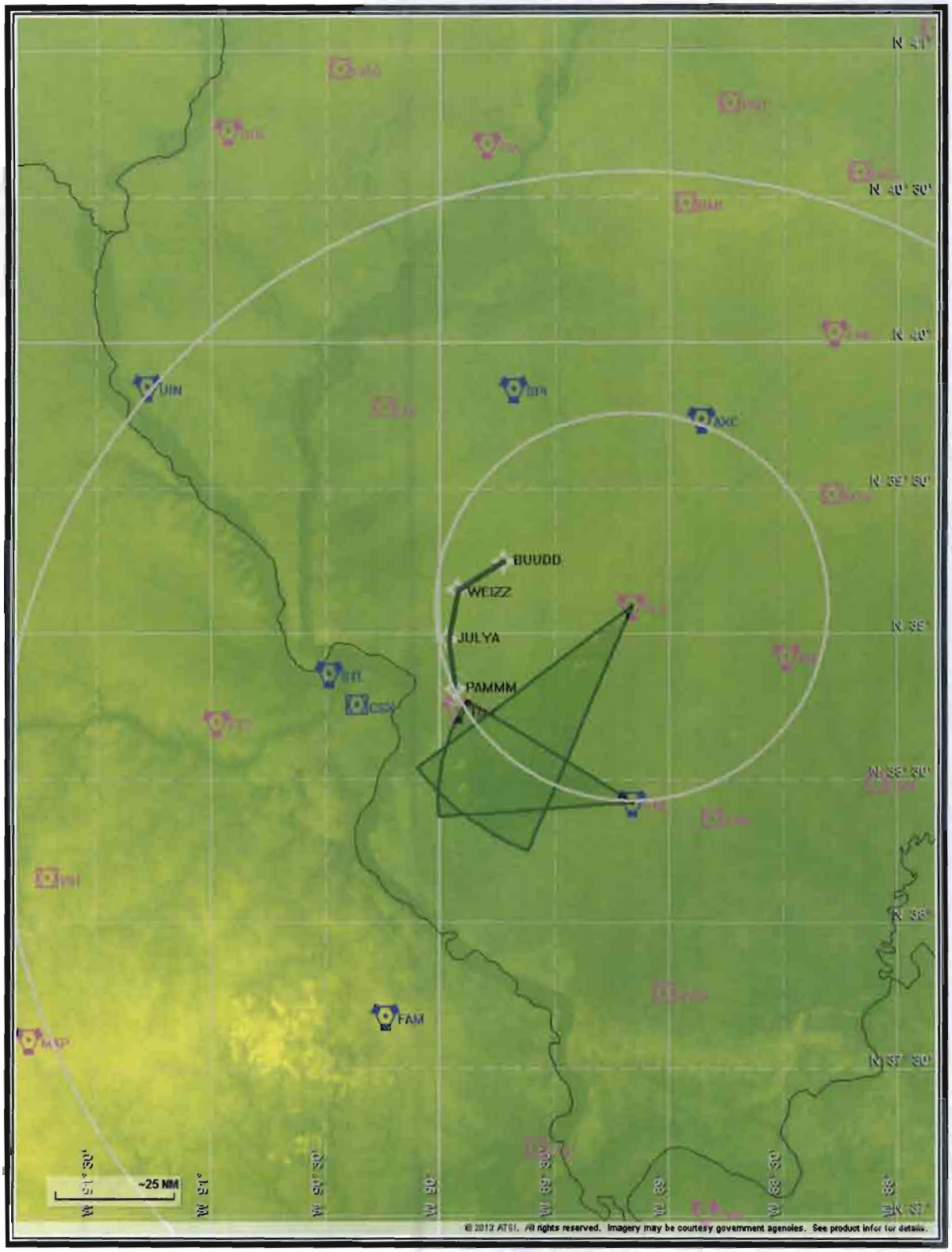
BUUDD
WEIZZ
JULYA
PAMMM
UIN
AXC
FAM
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BUUDD	WP	N 39° 14' 47.16" W 89° 43' 25.49"	2300.0	Step	210.0	Fly By	TF
WEIZZ	WP	N 39° 8' 55.71" W 89° 55' 7.12"	2300.0	Step	180.0	Fly By	TF
JULYA	WP	N 38° 58' 33.31" W 89° 57' 39.26"	2200.0	Step	180.0	Fly By	TF
PAMMM	WP	N 38° 48' 18.91" W 89° 55' 49.44"	2100.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **29000.0 Ft.** **280.0 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:

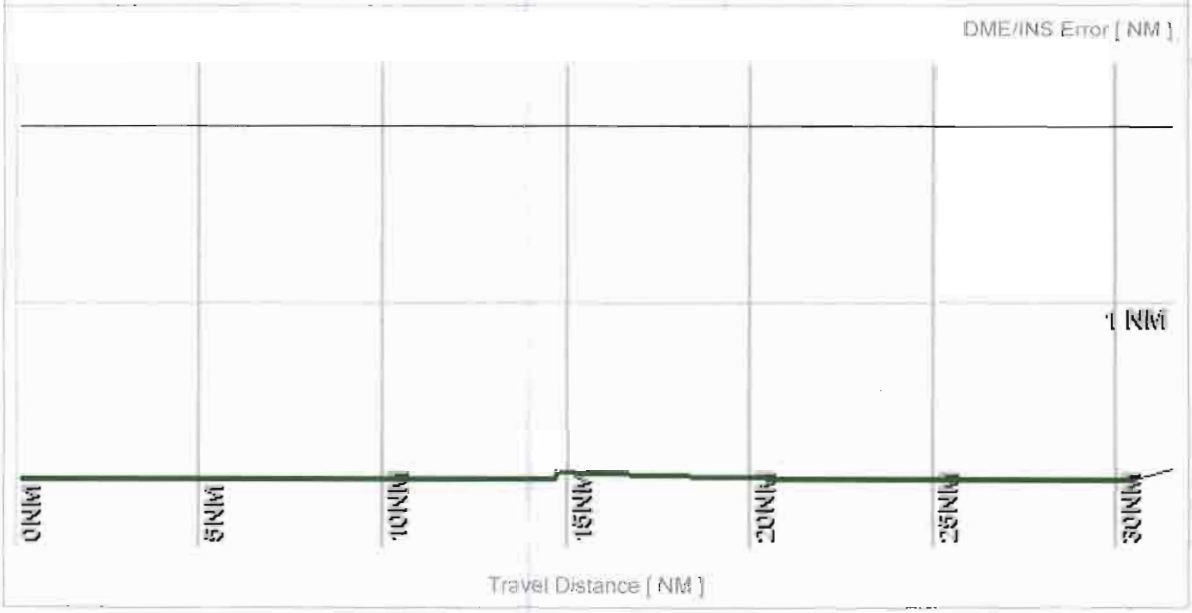
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 4

Maximum DME Error: 0.324 NM.

No Critical DMEs were found.

Available DMEs: VLA, SPI, TOY, STL, CSX



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L + ESV	User	NO	0.911	Enabled	46.5 %	46.4 %
2	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	1.279	Enabled	96.5 %	96.5 %
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	Database	NO	0.757	Enabled	44.0 %	44.1 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.331	Enabled	6.0 %	6.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VLA	TOY	STL	SPI		
10.1	VLA	TOY	STL			
20.8	CSX	TOY	STL			

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 49' 21.84" W 89° 56' 0.72"	N 38° 48' 19.06" W 89° 55' 49.47"	1.1

VOR: CSX	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 19.06" W 89° 55' 49.47"
VOR: STL	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 19.06" W 89° 55' 49.47"
VOR: TOY	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 19.06" W 89° 55' 49.47"
VOR: VLA	Available from N 38° 49' 21.84" W 89° 56' 0.72" to N 38° 48' 19.06" W 89° 55' 49.47"

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	545.8	115.00	ENL	Not Used

ESV:	Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 262.0° to 298.0°	Arc Distance: Out to 40.0 NM Altitude: 2000.0 to 6000.0 Ft.

DME/DME (Continued.)

Return To Summary

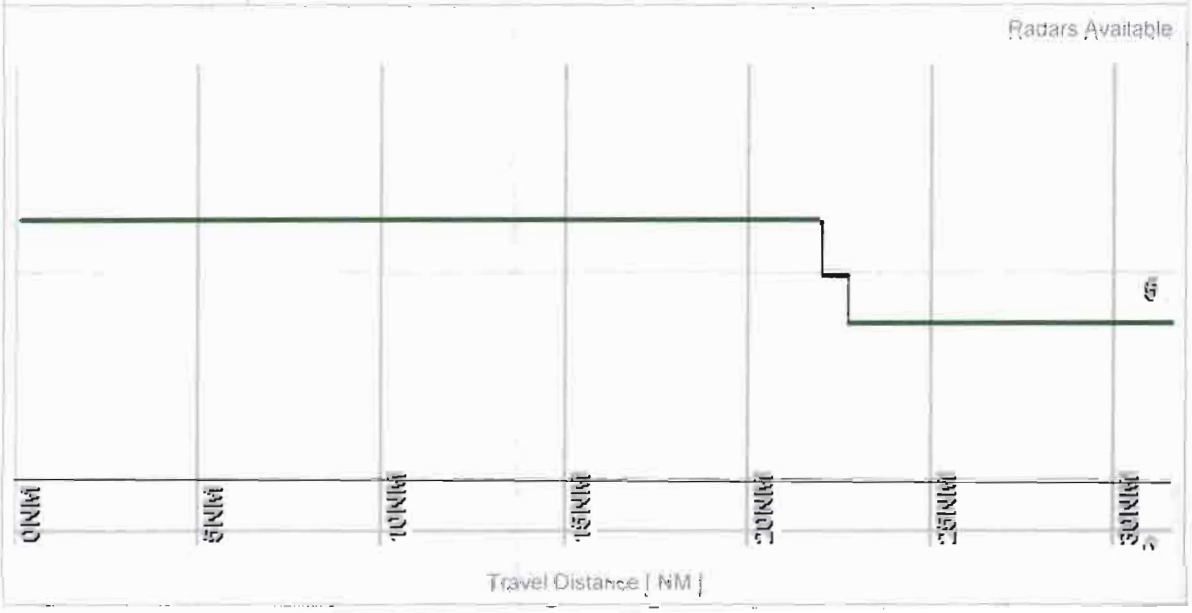
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L	610.0	114.30	VLA	Used
		ESV:	Bearing [True]: 203.0° to 233.0° Bearing [Mag]: 199.0° to 229.0°		Arc Distance: Out to 55.0 NM Altitude: 2000.0 to 5000.0 Ft.		

Radar Analysis

Return To Summary

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



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Version:	2.36
Date/Time:	7/16/2012 1:45:58 PM
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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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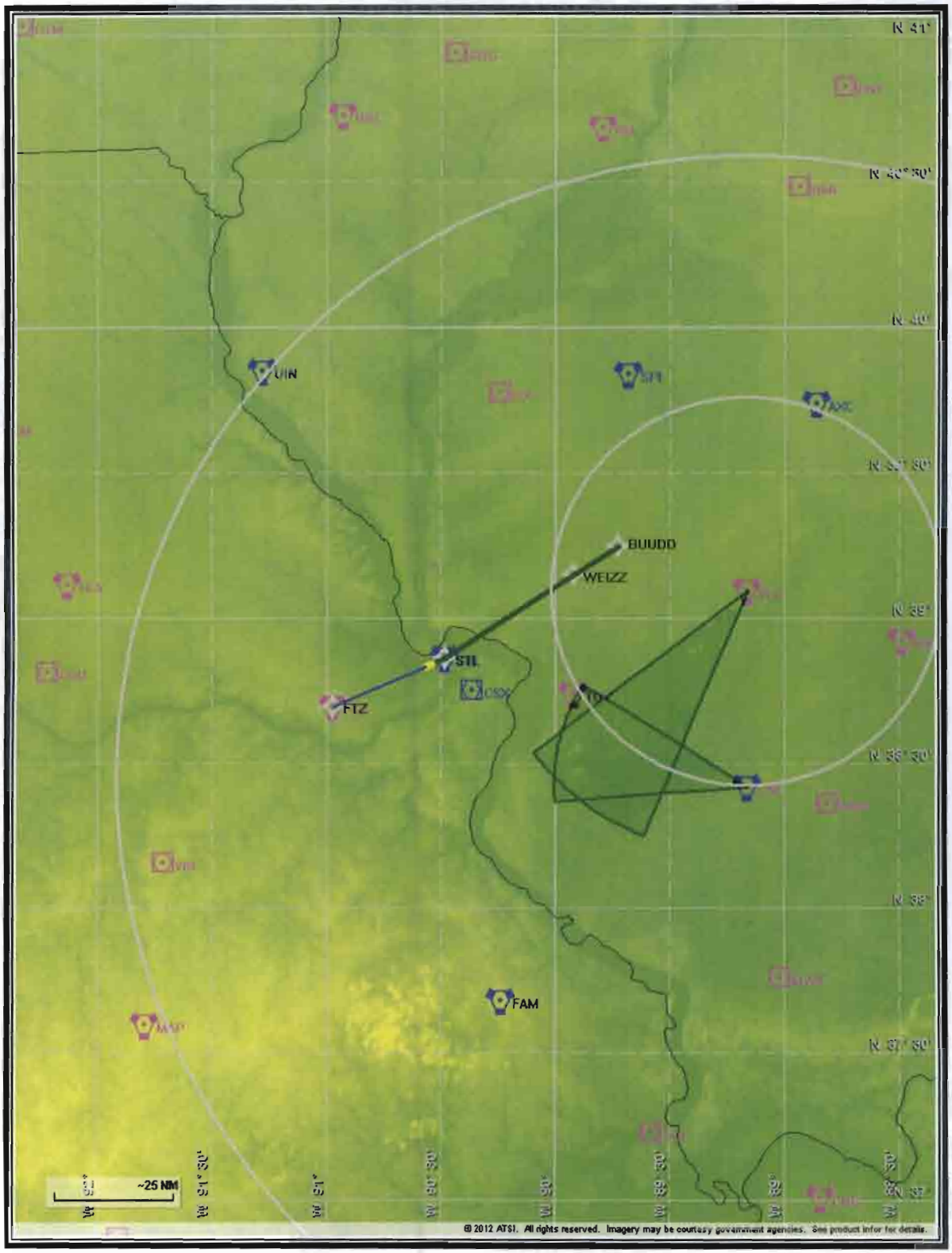

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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BUUDD	WP	N 39° 14' 47.16" W 89° 43' 25.49"	2300.0	Step	210.0	Fly By	TF
WEIZZ	WP	N 39° 8' 55.71" W 89° 55' 7.12"	2300.0	Step	180.0	Fly By	TF
STL	WP	N 38° 51' 38.48" W 90° 28' 56.53"	2300.0	Step	180.0	Fly By	TF
FTZ	WP	N 38° 41' 39.58" W 90° 58' 16.17"	2200.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **29000.0 Ft.** **280.0 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:

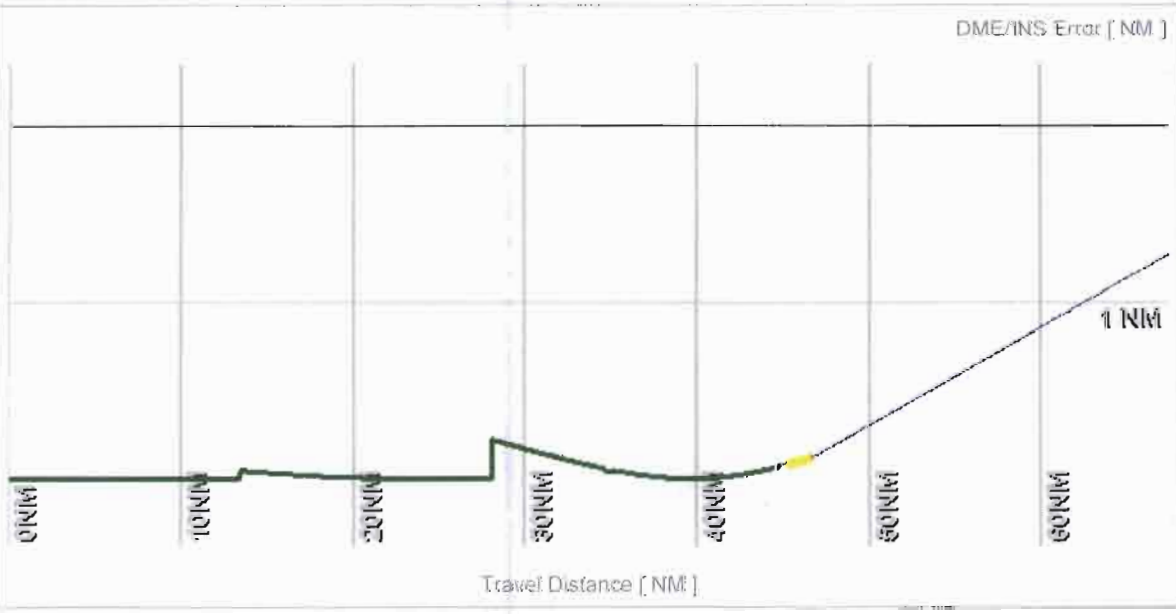
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 5

Maximum DME Error: 1.195 NM.

No Critical DMEs were found.

Available DMEs: VLA, SPI, TOY, STL, CSX, FTZ



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L + ESV	User	NO	1.195	Enabled	20.0 %	19.9 %
2	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	1.359	Enabled	42.5 %	42.5 %
3	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	Database	NO	1.235	Enabled	23.6 %	23.6 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	1.333	Enabled	26.5 %	26.6 %
5	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	1.506	Enabled	23.7 %	23.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	VLA	TOY	STL	SPI		
10.8	VLA	TOY	STL	CSX	FTZ	
41.9	FTZ	TOY	STL	CSX		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 50' 42.39" W 90° 31' 41.35"	N 38° 50' 27.84" W 90° 32' 24.44"	0.6

VOR: CSX	Available from N 38° 50' 42.39" W 90° 31' 41.35" to N 38° 50' 27.84" W 90° 32' 24.44"
VOR: FTZ	Available from N 38° 50' 42.39" W 90° 31' 41.35" to N 38° 50' 27.84" W 90° 32' 24.44"
VOR: STL	Available from N 38° 50' 42.39" W 90° 31' 41.35" to N 38° 50' 27.84" W 90° 32' 24.44"
VOR: TOY	Available from N 38° 50' 42.39" W 90° 31' 41.35" to N 38° 50' 27.84" W 90° 32' 24.44"

DME/DME (Continued.)

Return To Summary

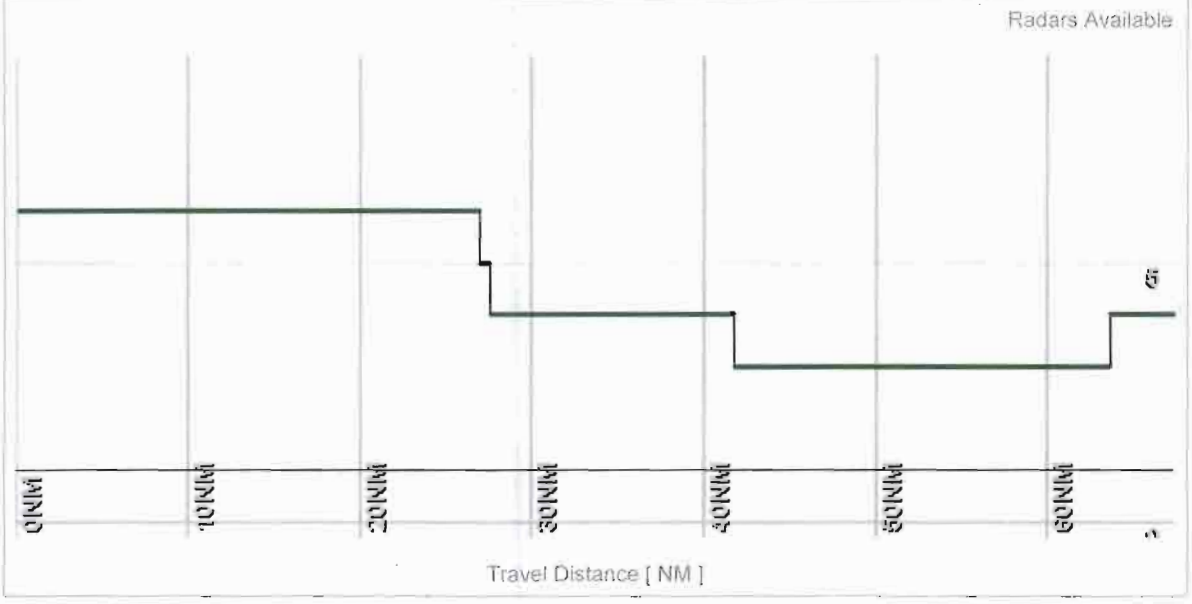
Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 49' 56.10" W 90° 33' 58.44"	N 38° 41' 39.65" W 90° 58' 15.98"	20.7
	VOR: CSX	Available from N 38° 49' 56.10" W 90° 33' 58.44" to N 38° 41' 39.65" W 90° 58' 15.98"	
	VOR: FTZ	Available from N 38° 49' 56.10" W 90° 33' 58.44" to N 38° 41' 39.65" W 90° 58' 15.98"	
	VOR: STL	Available from N 38° 49' 56.10" W 90° 33' 58.44" to N 38° 41' 39.65" W 90° 58' 15.98"	
	VOR: TOY	Available from N 38° 49' 56.10" W 90° 33' 58.44" to N 38° 45' 47.89" W 90° 46' 9.95"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H	545.8	115.00	ENL	Not Used
		ESV:	Bearing [True]: 266.0° to 302.0° Bearing [Mag]: 262.0° to 298.0°		Arc Distance: Out to 40.0 NM Altitude: 2000.0 to 6000.0 Ft.		
2	VLA	N 39° 5' 37.26" W 89° 9' 44.87" E 4	L	610.0	114.30	VLA	Used
		ESV:	Bearing [True]: 203.0° to 233.0° Bearing [Mag]: 199.0° to 229.0°		Arc Distance: Out to 55.0 NM Altitude: 2000.0 to 5000.0 Ft.		

Radar Analysis

Return To Summary

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