Flight Procedure Tracking Form	Action: NEW	Task Type: STAR	Date Open: 02/28/2012	Task #: 2006071410720506001	Request #: 20060714107205
Procedure: STAR AARCH (RNAV) ONE ST. LOUIS MO KSTL		Airport ID: KSTL	Airport: LAMBERT-ST LOUIS INTL		Reimbursable #:
City: ST LOUIS	ST: MO	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID: STL	Fac. Type: PROC.D	Specialist: JON DENTON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/07/2012	07/23/2012	JILL OLSON	DME DME
QA:	07/23/2012	08/22/2012	STEVEN SZUKALA	
Liaison:	08/22/2012		MARY MCDONALD Spurlin	P1 WAIVER ESV(S) SECOND PAGE

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

Pkg. 1 of 4

ST LOUIS, MO LAMBERT-ST LOUIS INTL (STL) AARCH RNAV ONE (STAR) ENROUTE-YES FC: 9.18.12 PUB: 11.15.12

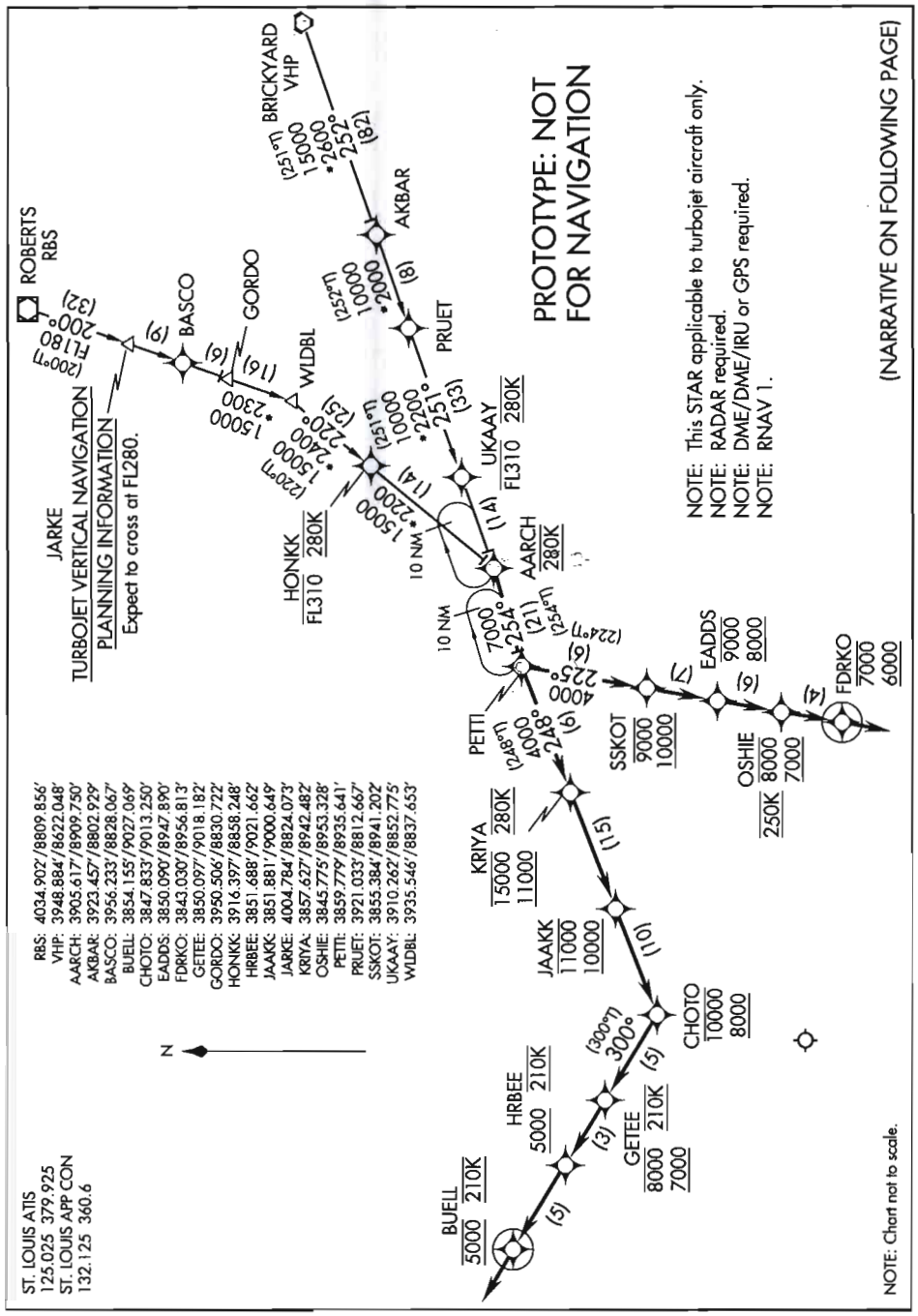
FORMS: 7100-4; 7100-3; 8260-2(S): AARCH, IL-ORIG; AKBAR, IL-REV 3; BASCO, IL-ORIG; BRICKYARD (VTAC, IN (INFO); BUELL, MO-ORIG; CHOTO, MO-ORIG; EADDS, IL-ORIG; FDRKO, IL-REV 1; GETEE, MO-ORIG; GORDO, IL-REV 5; HONKK, IL-ORIG; HRBEE, MO-ORIG (INFO); JAAKK, IL-ORIG; JARKE, IL-REV 1; KRIYA, IL-ORIG; OSHIE, IL-ORIG; PETTI, IL-REV 4; PRUET, IL-ORIG; ROBERTS VDME, IL-REV 10 (INFO); SSKOT, IL-ORIG; UKAAY, IL-ORIG; WLDBL, IL-ORIG; 8260-1 (WAIVER) (1).
CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014/405.954.9307.

ESV REQUEST INCLUDED

AARCH ONE ARRIVAL (RNAV)

ST-360 (FAA)

LAMBERT-ST. LOUIS INTL
ST. LOUIS, MISSOURI



ARRIVAL DESCRIPTION

AKBAR TRANSITION (AKBAR.AARCH1):
BRICKYARD TRANSITION (VHP.AARCH1):
ROBERTS TRANSITION (RBS.AARCH1):

From AARCH on track 254° to PETTI.

Rwys 11/12L/12R: From PETTI on track 248° to cross KRIYA at or above 11000 and at or below 15000 and at 280 K, thence as depicted to BUELL, cross BUELL at 5000 and at 210 K. Expect radar vectors to final approach course. If not received by BUELL, track via 300°.

Rwys 29/30L/30R: From PETTI on track 225° to cross SSKOT at or above 10000 and at or below 12000, thence as depicted to FDRKO, cross FDRKO at or above 6000 and at or below 7000, then on assigned instrument approach procedure. If approach clearance not received by FDRKO, track via 225°, expect radar vectors to final approach course.

PROTOTYPE: NOT
FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BIBLE GROVE	City : BIBLE GROVE	Ident : BIB	State : IL
Type/Class : L-VOR	Frequency : M109	Reference No.: 12053164	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702679-008	27	52	45	50	170

Requirement: REQUIRED FOR AARCH RNAV STAR FOR STL

Signature: Denton Jon	Routing Symbol: AJV-353	Date: 05/31/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702679-008	27	52	45	50	170	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 06/01/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702679-008	27	52	45	50	170	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/04/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702679-008	27	52				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BIBLE GROVE	City : BIBLE GROVE	Ident : BIB	State : IL
Type/Class : TACR	Frequency : M988	Reference No.: 11023964	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 702678-006	27	52	45	50	170

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STL. (MISTAKENLY APPLIED TRUE VS MAGNETIC DEGREES)

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 02/03/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702678-006	27	52	45	50	170	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STL. (MISTAKENLY APPLIEDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 03/10/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702678-006	27	52	45	50	170	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STL. (MISTAKENLY APPLIEDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/14/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 702678-006	27	52				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BOILER	City : LAFAYETTE	Ident : BVT	State : IN
Type/Class : TACR	Frequency : M1185	Reference No.: 10028957	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 900606-005	182	224	95	30	170

Requirement: ESTABLISH AN ESV FOR THE AARCH RNAV STAR AT STL.

Signature: Mallett Gary	Routing Symbol: AJV-C22	Date: 02/12/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 900606-005	182	224	95	30	170	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 04/07/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 900606-005	182	224	95	55	170	RESTRICT

Requirement/Remarks: ESTABLISH AN ESV FOR THE AARCH RNAV STAR AT STL.Restricted. Inadequate Coverage MIN ALT FL=55

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/13/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 900606-005	182	224	95	55	170	RESTRICT

Requirement/Remarks: ESTABLISH AN ESV FOR THE AARCH RNAV STAR AT STL.Restricted. Inadequate Coverage MIN ALT FL=55

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/13/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 900606-005	182	224				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

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.: 10028955	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698174-016	286	350	60	30	145

Requirement: ESTABLISH AN ESV FOR THE AARCH RNAV STAR AT STL.

Signature: Mallett Gary	Routing Symbol: AJV-C22	Date: 02/12/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-016	286	350	60	30	145	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 04/07/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-016	286	350	60	30	145	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/07/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698174-016	286	350				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CENTRALIA	City : CENTRALIA	Ident : ENL	State : IL
Type/Class : H-VOR	Frequency : M115	Reference No.: 12053162	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 697451-022	286	350	60	30	145

Requirement: REQUIRED FOR AARCH RNAV STAR FOR STL

Signature: Denton Jon	Routing Symbol: AJV-353	Date: 05/31/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 697451-022	286	350	60	30	145	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 06/01/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 697451-022	286	350	60	30	145	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/04/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 697451-022	286	350				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CHAMPAIGN	City : CHAMPAIGN	Ident : CMI	State : IL
Type/Class : TACR	Frequency : M998	Reference No.: 12028846	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 703980-003	122	157	60	90	160

Requirement: REQUIRED FOR NEW ARRCH1 RNAV FROM STL

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

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703980-003	122	157	60	90	160	APPROVE

Requirement/Remarks: REQUIRED FOR NEW ARRCH1 RNAV FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. **DIST. AND MIN ALT.**

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

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703980-003	122	157	60	90	160	APPROVE

Requirement/Remarks: REQUIRED FOR NEW ARRCH1 RNAV FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

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

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 703980-003	122	157				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CHAMPAIGN	City : CHAMPAIGN	Ident : CMI	State : IL
Type/Class : L-VOR	Frequency : M110	Reference No.: 12053160	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 711339-004	122	157	60	90	160

Requirement: REQUIRED FOR AARCH RNAV STAR FOR STL

Signature: Denton Jon	Routing Symbol: AJV-353	Date: 05/31/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 711339-004	122	157	60	90	160	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 06/01/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 711339-004	122	157	60	90	160	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/04/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 711339-004	122	157				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : DECATUR	City : DECATUR	Ident : AXC	State : IL
Type/Class : TACR	Frequency : M1206	Reference No.: 10071968	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 774674-014	92	122	81	30	180

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STL

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 07/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 774674-014	92	122	81	30	180	RESTRICT

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STLRestricted. Inadequate Coverage at ALT (min)/(max)=MIN ALT IS =>4000

Signature: NASSR NASHAAT	Routing Symbol:	Date: 07/22/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 774674-014	92	122	81	30	180	RESTRICT

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STLRestricted. Inadequate Coverage at ALT (min)/(max)=MIN ALT IS =>4000

Signature: NASSR NASHAAT	Routing Symbol:	Date: 07/22/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 774674-014	92	122	81	50	180	RESTRICT

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STLRestricted. Inadequate Coverage MIN ALT FL=50

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/27/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 774674-014	92	122	81	50	180	RESTRICT

Requirement/Remarks: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STLRestricted. Inadequate Coverage MIN ALT FL=50

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/27/2010

Expanded Service Volume Data: (FIFO)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 774674-014	92	122				
Requirement/Remarks:						
Signature:		Routing Symbol:			Date:	

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : KOKOMO	City : KOKOMO	Ident : OKK	State : IN
Type/Class : H-VOR	Frequency : M113.5	Reference No.: 12053166	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 961382-007	192	215	62	50	170

Requirement: REQUIRED FOR AARCH RNAV STAR FOR STL

Signature: Denton Jon	Routing Symbol: AJV-353	Date: 05/31/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 961382-007	192	215	62	50	170	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 06/01/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 961382-007	192	215	62	50	170	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/04/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 961382-007	192	215				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : KOKOMO	City : KOKOMO	Ident : OKK	State : IN
Type/Class : TACR	Frequency : M1169	Reference No.: 10071967	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 961442-010	192	215	62	50	170

Requirement: ESTABLISH AN ESV FOR THE RNAV STAR AARCH INTO STL.

Signature: Mallett Gary	Routing Symbol: AJC-C2	Date: 07/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 961442-010	192	215	62	50	170	APPROVE

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

Signature: NASSR NASHAAT	Routing Symbol:	Date: 07/22/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 961442-010	192	215	62	50	170	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 07/27/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 961442-010	192	215				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ST LOUIS	City : SAINT LOUIS	Ident : STL	State : MO
Type/Class : TACR	Frequency : M1208	Reference No.: 10028956	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704271-026	73	125	60	30	145

Requirement: ESTABLISH AN ESV FOR THE AARCH RNAV STAR AT STL.

Signature: Mallett Gary	Routing Symbol: AJV-C22	Date: 02/12/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-026	73	125	60	30	145	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE AARCH RNAV STAR AT STL.Approved. Pend. Flight Chk/Inspect @ the req. dist. **and MIN ALT.**

Signature: BOWERS MIKE	Routing Symbol:	Date: 03/09/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-026	73	125	60	30	145	APPROVE

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

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/09/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-026	73	125				

Requirement/Remarks:

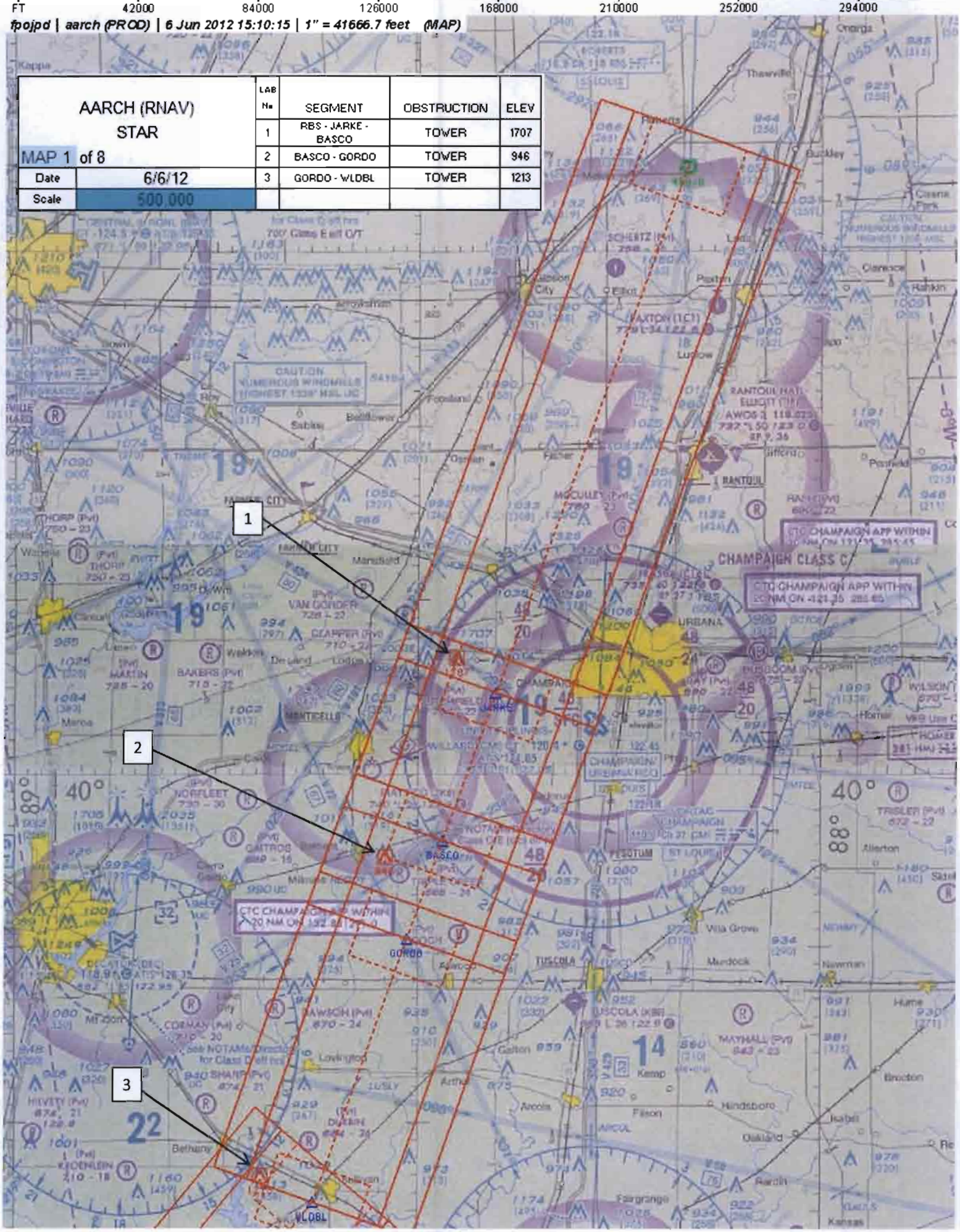
Signature:	Routing Symbol:	Date:

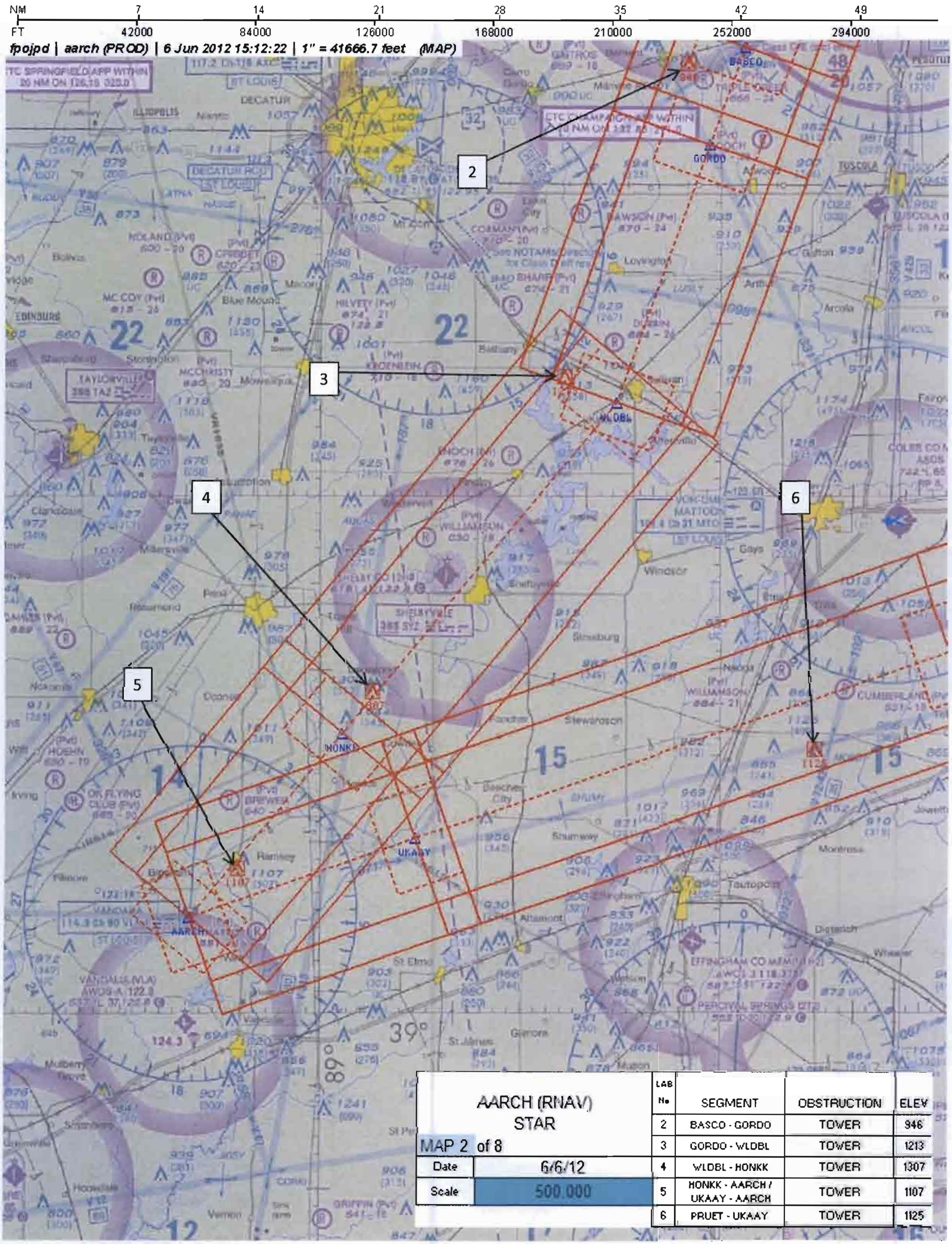
NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpojpd | aarch (PROD) | 6 Jun 2012 15:10:15 | 1" = 41666.7 feet (MAP)

AARCH (RNAV) STAR		LAB No	SEGMENT	OBSTRUCTION	ELEV
MAP 1 of 8		1	RBS - JARKE - BASCO	TOWER	1707
		2	BASCO - GORDO	TOWER	946
Date	6/6/12	3	GORDO - WLDBL	TOWER	1213
Scale	500,000				



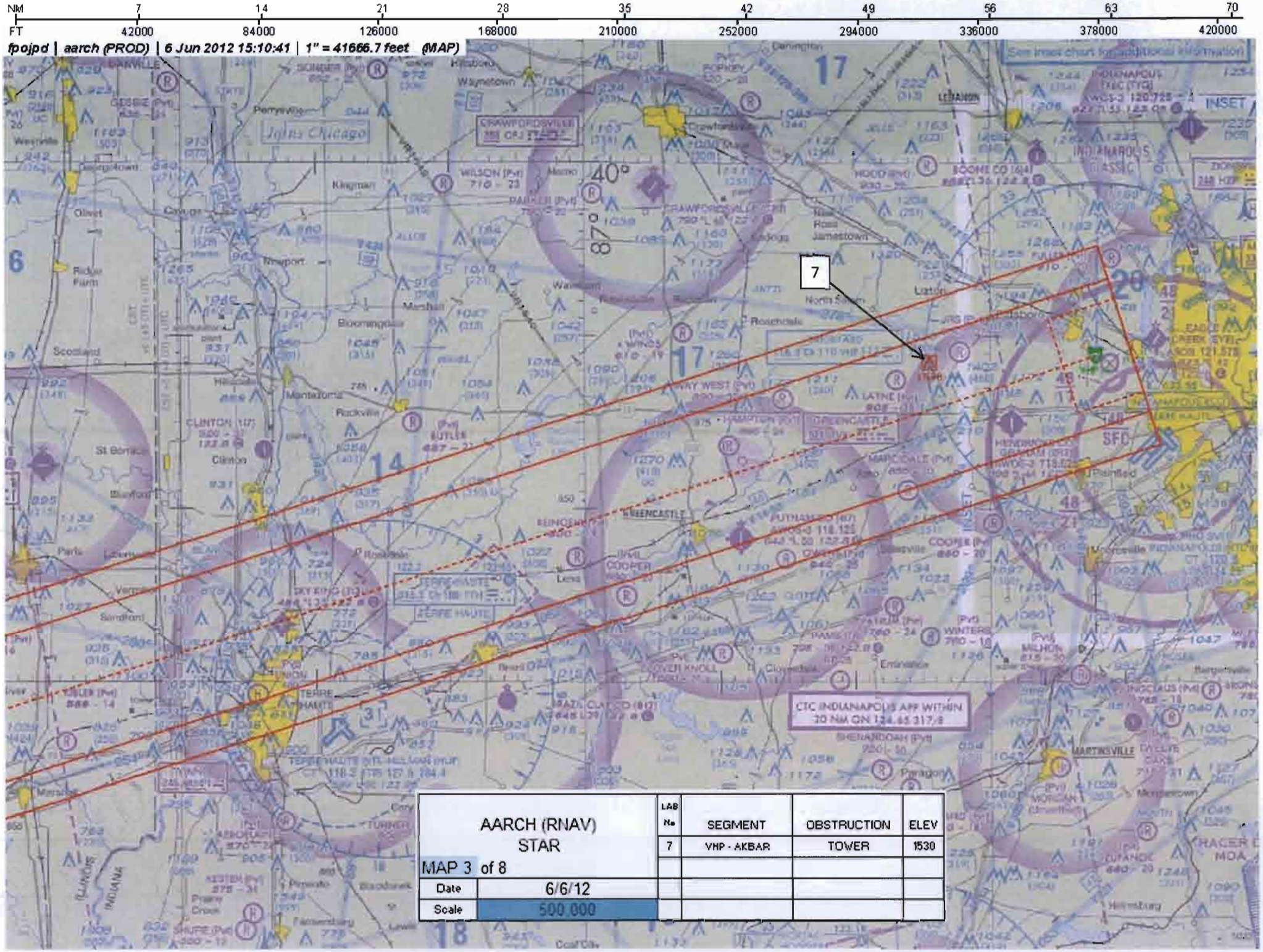


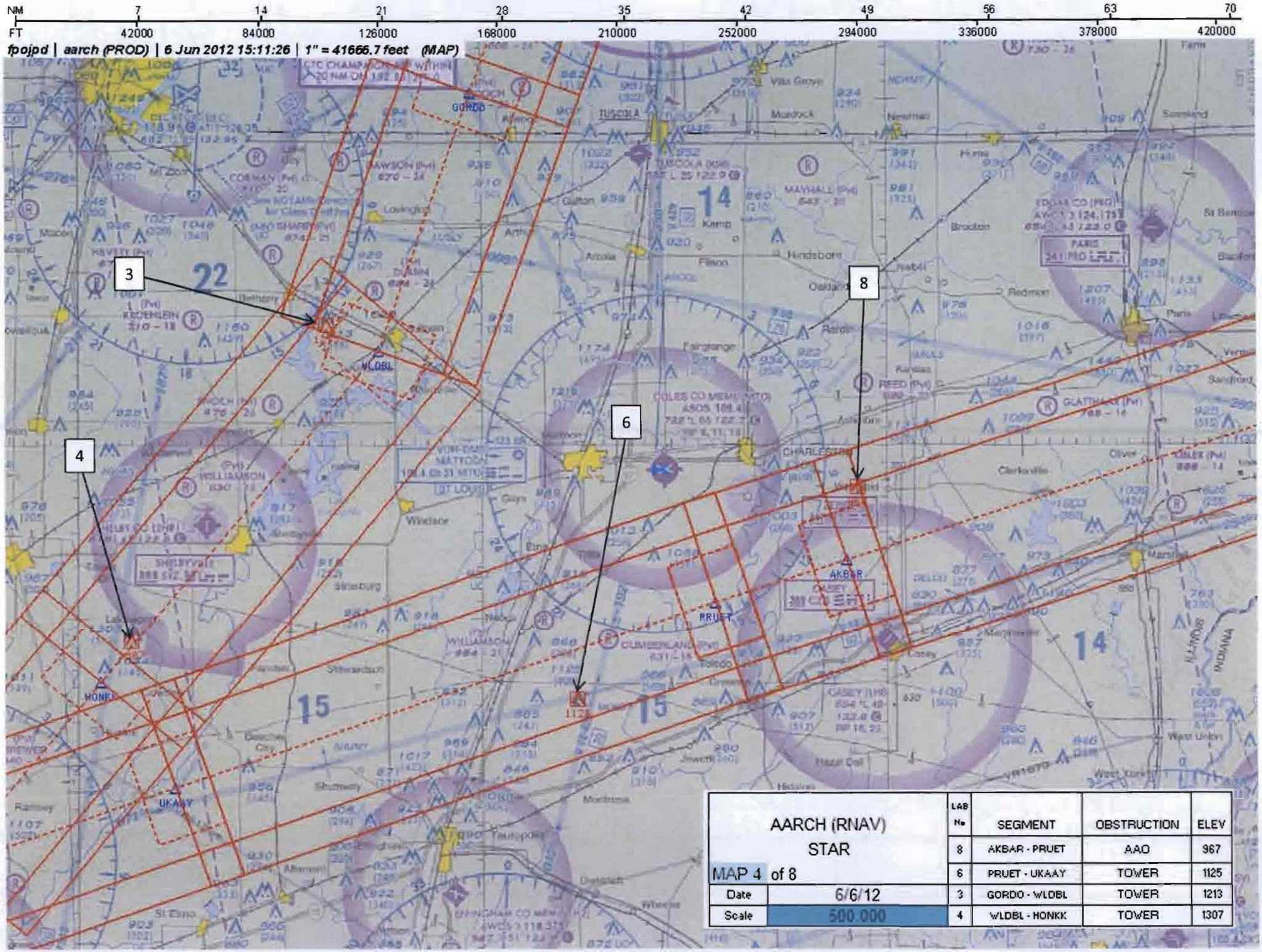
AARCH (RNAV) STAR

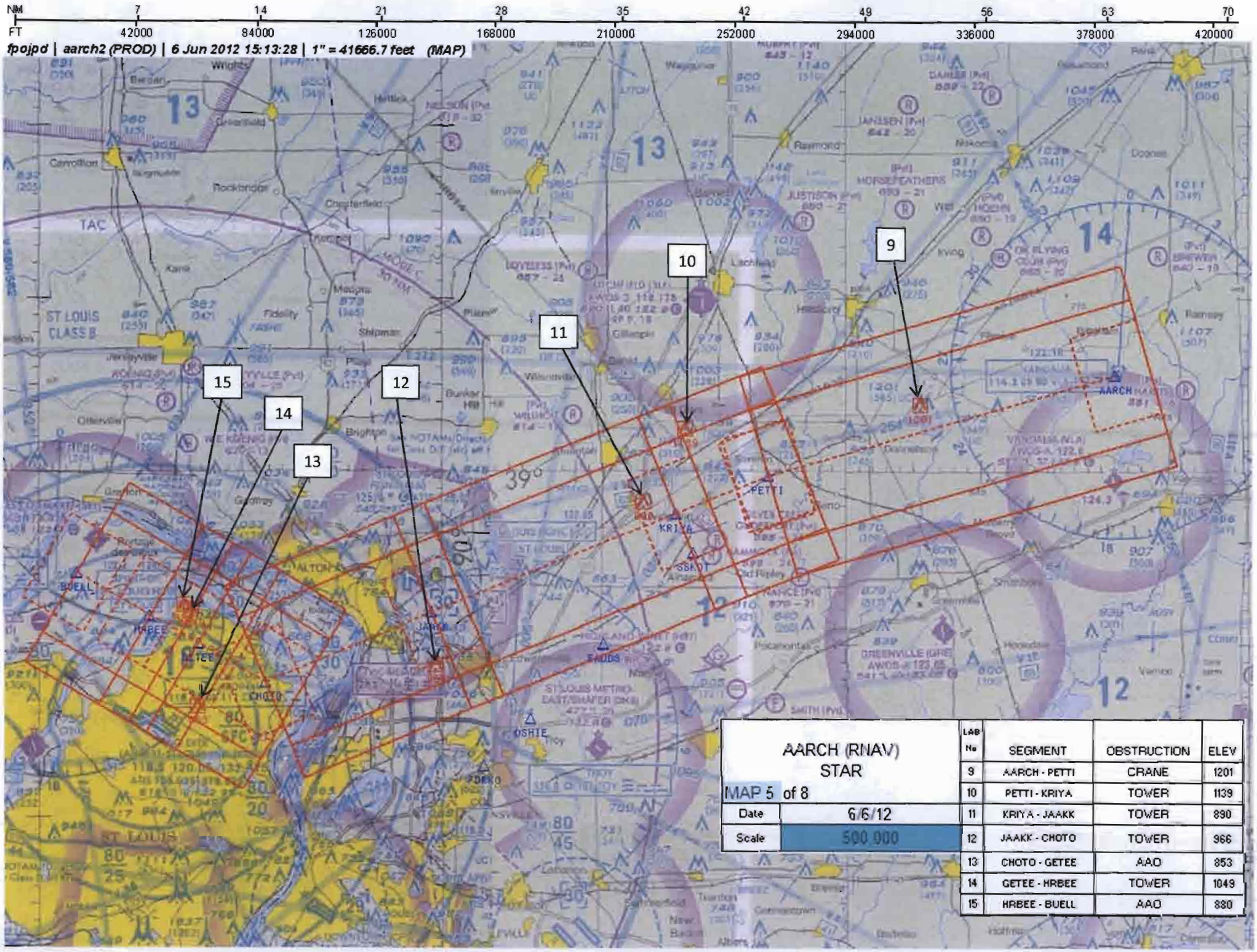
MAP 2 of 8

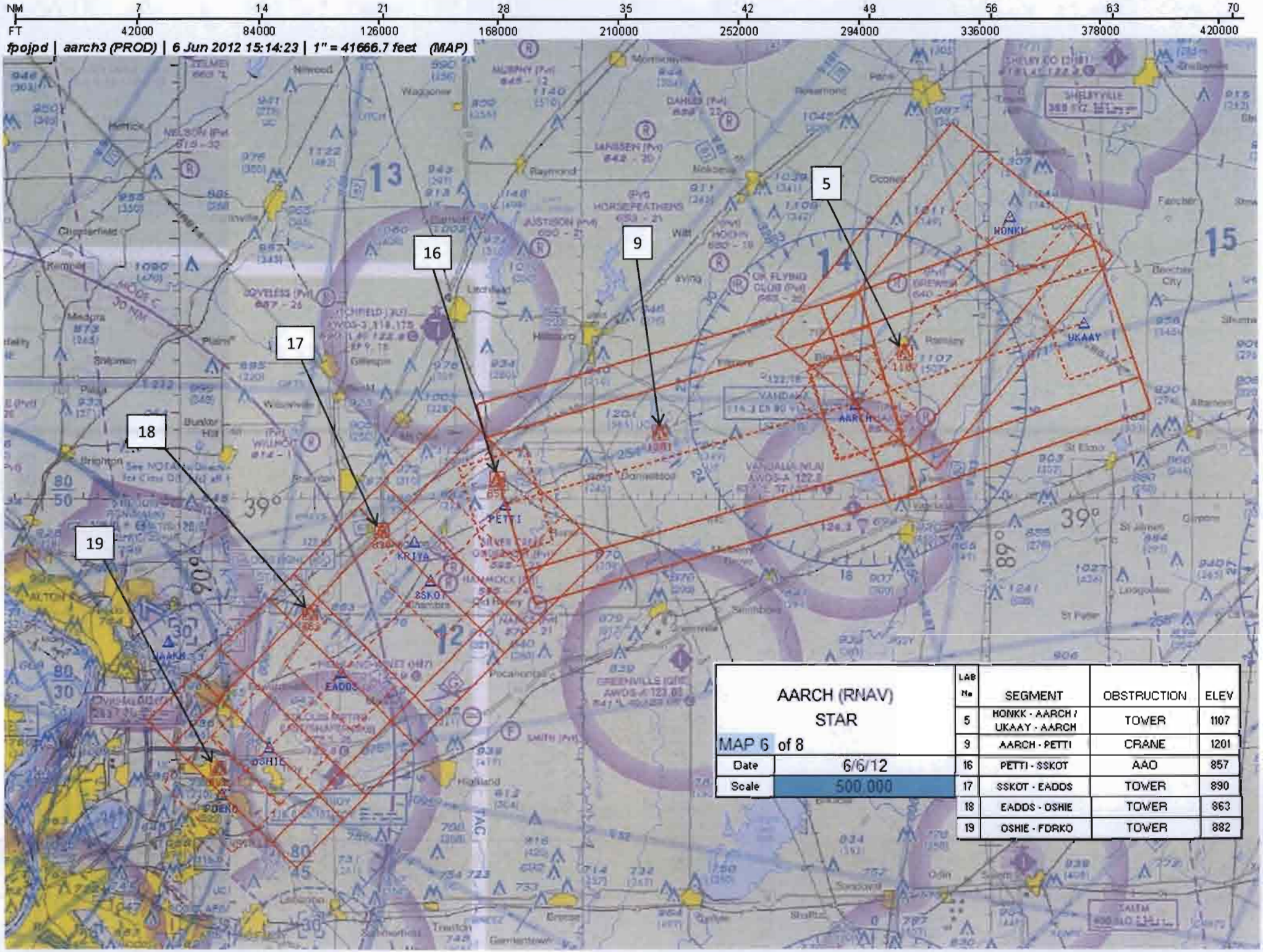
Date	6/6/12
Scale	500,000

LAB No	SEGMENT	OBSTRUCTION	ELEV
2	BASCO - GORDO	TOWER	946
3	GORDO - WLDBL	TOWER	1213
4	WLDBL - HONKK	TOWER	1307
5	HONKK - AARCH / UKAAY - AARCH	TOWER	1107
6	PRUET - UKAAY	TOWER	1125


NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpojpd | aarch (PROD) | 6 Jun 2012 15:10:41 | 1" = 41666.7 feet (MAP)
7
CTC INDIANAPOLIS APP WITHIN 30 NM ON 124.65 317.8
AARCH (RNAV) STAR
MAP 3 of 8
Date 6/6/12
Scale 500 000
LAB No
SEGMENT
OBSTRUCTION
ELEV
7
VHP - AKBAR
TOWER
1530


NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpojpd | aarch (PROD) | 6 Jun 2012 15:11:26 | 1" = 41666.7 feet (MAP)
3
4
6
8
GORDO
WLDBL
HONKK
UKAAY
PRUET
AKBAR
AARCH (RNAV)
STAR
MAP 4 of 8
Date 6/6/12
Scale 500 000
LAB No
SEGMENT
OBSTRUCTION
ELEV
8 AKBAR - PRUET AAO 967
6 PRUET - UKAAY TOWER 1125
3 GORDO - WLDBL TOWER 1213
4 WLDBL - HONKK TOWER 1307

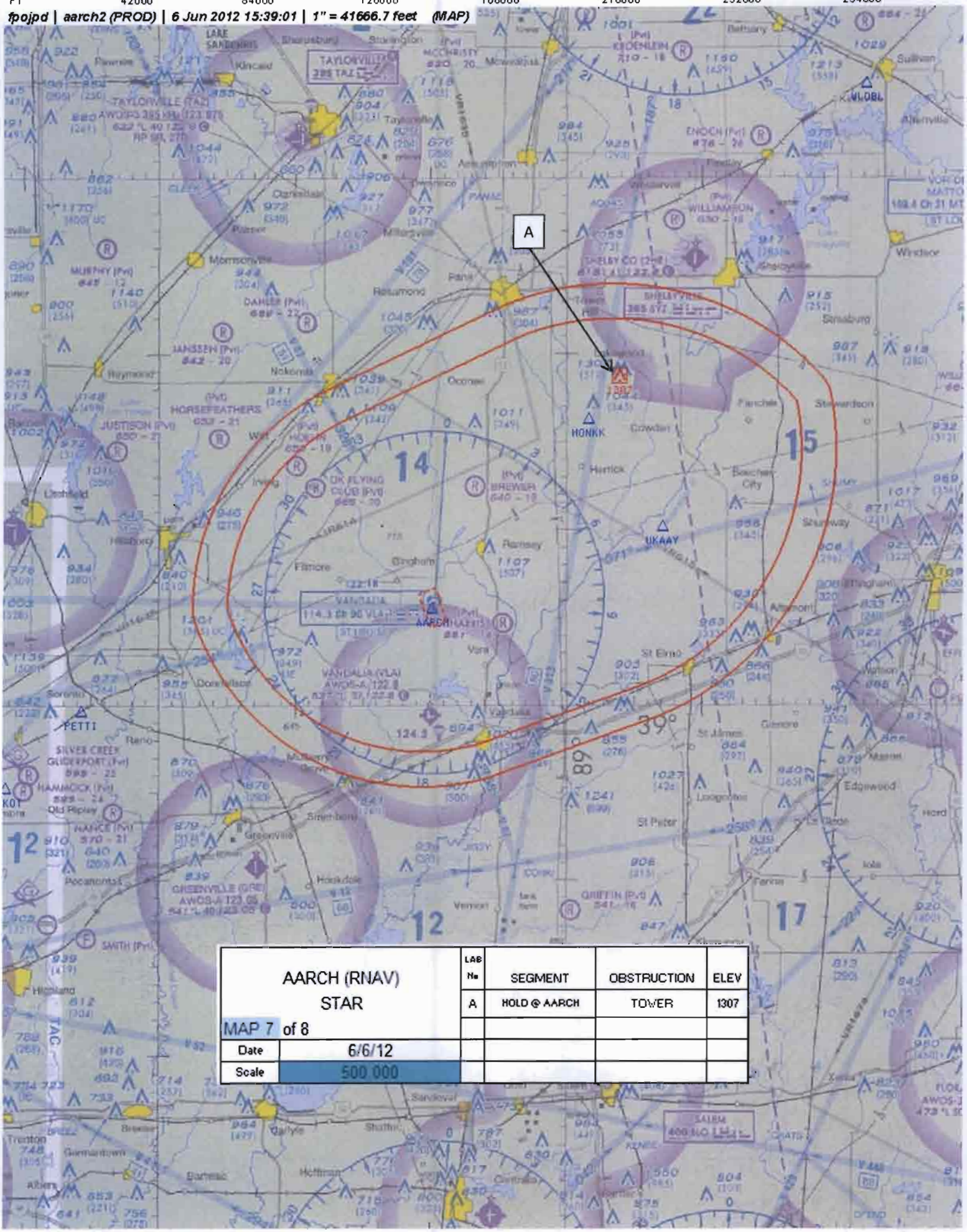

NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpojpd | aarch2 (PROD) | 6 Jun 2012 15:13:28 | 1" = 41666.7 feet (MAP)
9
10
11
12
13
14
15
AARCH
PETTI
KRIYA
JAAKK
CHOTO
GETEE
HRBEE
BUELL
ST LOUIS CLASS B
TAC
AARCH (RNAV) STAR
MAP 5 of 8
Date 6/6/12
Scale 500 000
LAB No | SEGMENT | OBSTRUCTION | ELEV
9 | AARCH - PETTI | CRANE | 1201
10 | PETTI - KRIYA | TOWER | 1139
11 | KRIYA - JAAKK | TOWER | 890
12 | JAAKK - CHOTO | TOWER | 966
13 | CHOTO - GETEE | AAO | 853
14 | GETEE - HRBEE | TOWER | 1049
15 | HRBEE - BUELL | AAO | 880


NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpojpd | aarch3 (PROD) | 6 Jun 2012 15:14:23 | 1" = 41666.7 feet (MAP)
5
9
16
17
18
19
HONKK
UKAAY
AARCH
PETTI
SSKOT
EADDS
OSHIE
FDRKO
AARCH (RNAV)
STAR
MAP 6 of 8
Date 6/6/12
Scale 500,000
LAB No | SEGMENT | OBSTRUCTION | ELEV
5 | HONKK - AARCH / UKAAY - AARCH | TOWER | 1107
9 | AARCH - PETTI | CRANE | 1201
16 | PETTI - SSKOT | AAO | 857
17 | SSKOT - EADDS | TOWER | 890
18 | EADDS - OSHIE | TOWER | 863
19 | OSHIE - FDRKO | TOWER | 882

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpojpd | aarch2 (PROD) | 6 Jun 2012 15:39:01 | 1" = 41666.7 feet (MAP)

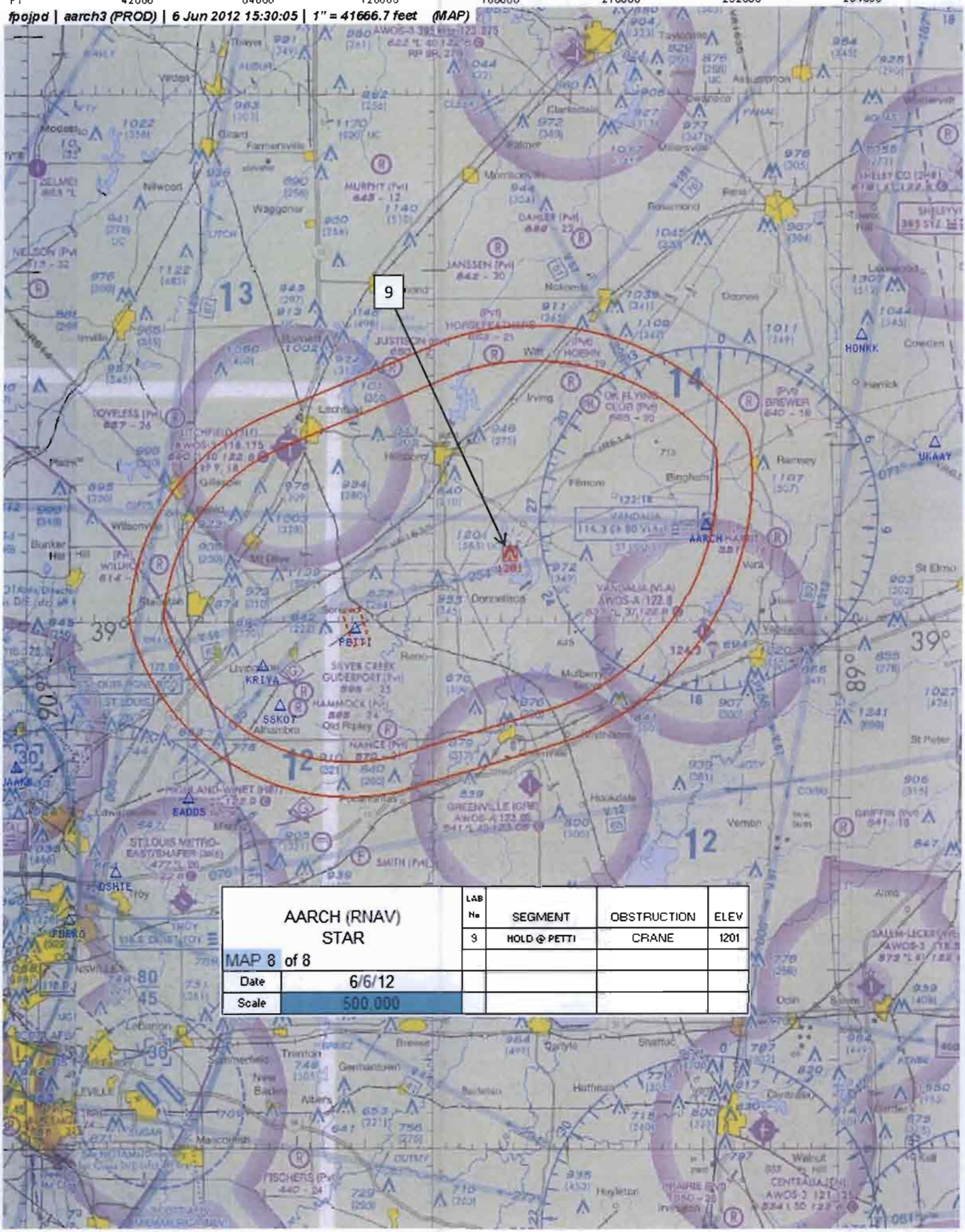


AARCH (RNAV) STAR	LAB No	SEGMENT	OBSTRUCTION	ELEV
	A	HOLD @ AARCH	TOWER	1307
MAP 7 of 8				
Date 6/6/12				
Scale 500 000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpojpd | aarch3 (PROD) | 6 Jun 2012 15:30:05 | 1" = 41666.7 feet (MAP)



AARCH (RNAV) STAR		LAB No	SEGMENT	OBSTRUCTION	ELEV
		9	HOLD @ PETTI	CRANE	1201
MAP 8 of 8					
Date	6/6/12				
Scale	500 000				

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

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

(1) Transition Routes: (Graphic Depiction Only)

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP/ FIX/NAVAID	(d) To RNAV WP/ FIX/NAVAID	(e) Magnetic Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
AKBAR	AKBAR.AARCH1	AKBAR	PRUET	252.27/7.93	10000	2000		
		PRUET	UKAAY	251.15/32.96	10000	2200		AT/BELOW FL310
		UKAAY	AARCH	250.73/14.00	10000	2200		
ROBERTS	RBS.AARCH1	RBS VOR/DME	JARKE	199.94/32.00	FL180			
		JARKE	BASCO	199.78/9.08	FL180			
		BASCO	GORDO	199.67/6.08	FL180			
		GORDO	WLDBL	199.73/15.88	15000	2300		
		WLDBL	HONKK	219.94/24.91	15000	2400		AT/BELOW FL310
		HONKK	AARCH	219.77/14.00	15000	2200		
BRICKYARD	VHP.AARCH1	VHP VORTAC	AKBAR	252.49/82.01	15000	2600		
		AKBAR	PRUET	252.27/7.93	10000	2000		
		PRUET	UKAAY	251.15/32.96	10000	2200		AT/BELOW FL310
		UKAAY	AARCH	250.73/14.00	10000	2200		

(2) Arrival Route Description: FROM AARCH ON TRACK 254.01/21.00 TO PETTI (MEA 7000).

LANDING RWYS 11/12L/12R: FROM PETTI ON TRACK 248.08/5.75 TO CROSS KRIYA AT OR ABOVE 11000 AND AT OR BELOW 15000 AND AT 280 KIAS (MEA 4000), THEN ON TRACK 248.06/15.30 TO CROSS JAAKK AT OR ABOVE 10000 AND AT OR BELOW 11000 (MEA 4000), THEN ON TRACK 247.74/10.64 TO CROSS CHOTO AT OR ABOVE 8000 AND AT OR BELOW 10000 (MEA 4000), THEN ON TRACK 300.43/4.47 TO CROSS GETEE AT OR ABOVE 7000 AND AT OR BELOW 8000 AND AT 210 KIAS (MEA 4000), THEN ON TRACK 300.32/3.15 TO CROSS HRBEE AT OR ABOVE 5000 AND AT 210 KIAS (MEA 4000), THEN ON TRACK 300.30/4.89 TO CROSS BUELL AT 5000 AND AT 210 KIAS (MEA 4000). EXPECT RADAR VECTORS TO FINAL APPROACH COURSE. IF NOT RECEIVED BY BUELL, TRACK VIA 300.30.

LANDING RWYS 29/30L/30R: FROM PETTI ON TRACK 224.68/6.17 TO CROSS SSKOT AT OR ABOVE 9000 AND AT OR BELOW 10000 (MEA 4000), THEN ON TRACK 224.68/7.43 TO CROSS EADDS AT OR ABOVE 8000 AND AT OR BELOW 9000 (MEA 4000), THEN ON TRACK 224.62/6.05 TO CROSS OSHIE AT OR ABOVE 7000 AND AT OR BELOW 8000 (MEA 4000), THEN ON TRACK 224.86/3.87 TO CROSS FDRKO AT OR ABOVE 6000 AND AT OR BELOW 7000 (MEA 4000), THEN VIA ASSIGNED INSTRUMENT APPROACH PROCEDURE. IF APPROACH CLEARANCE NOT RECEIVED BY FDRKO, TRACK VIA 224.86, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(3) Procedural Data Notes: NOTE: VERTICAL NAVIGATION PLANNING INFORMATION: TURBOJETS EXPECT TO CROSS JARKE AT FL280.
NOTE: THIS STAR APPLICABLE TO TURBOJET AIRCRAFT ONLY. NOTE: RADAR REQUIRED. NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1
NOTE: CHART NOT TO SCALE.
NOTE: CROSS UKAAY AT 280 KIAS, CROSS AARCH AT 280 KIAS, CROSS HONKK AT 280 KIAS.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT: PETTI, HOLD E, RT, 254.01 INBOUND, 10 NM LEGS; AARCH, HOLD NE, RT, 250.73 INBOUND, 10 NM LEGS.

(5) Communications: STL ATIS, STL APP CON.

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

FAA Form 7100-4 (7/02)

(12) Airports Served			
Airport Name	LAMBERT-ST LOUIS INTL	City/State	ST LOUIS, MO
Airport Name		City/State	
Airport Name		City/State	
Airport Name		City/State	
Airport Name		City/State	
Airport Name		City/State	

(13) Lost Communications Procedure:

(14) Remarks:
MAXIMUM AUTHORIZED ALTITUDES (MAA) NOT REQUIRED FOR THIS PROCEDURE, ATC REQUEST.

(15) Additional Flight Data:
(DO NOT CHART) DME/DME ASSESSMENT: SAT (RNP 2.0)
REFERENCE MAG VAR: KSTL 00E/2000

QUALITY CHECKED 4

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

FAA Form 7100-4 (7/02)

(16) Continuation:

(17) Changes:

(18) Reasons for Changes:

	Name *(Typed and Signed)*, Title and Organization		DATE
Developed By	JAY GAUMER, SUPPORT SPECIALIST, ZKC-520D		
Approved	**FIFO**		
	Reg. ATD		

QUALITY CHECKED 3

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

FAA Form 7100-4 (7/02)

(19) Graphic Depiction:

SEE ATTACHED.

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

FAA Form 7100-4 (7/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
AKBAR	392327.44N / 0880255.72W	Y		IF					AKBAR.AARCH1
PRUET	392102.00N / 0881240.00W	Y	FB	TF	252.27	07.93			
UKAAY	391015.70N / 0885246.51W	Y	FB	TF	251.15	32.96	AT/BELOW FL310	AT 280K	
AARCH	390537.00N / 0890945.00W	Y	FB	TF	250.73	14.00			
En Route Transition									
RBS VOR/DME	403454.13N / 0880951.36W	Y		IF					RBS.AARCH1
JARKE	400447.06N / 0882404.36W	Y	FB	TF	199.94	32.00			
BASCO	395614.00N / 0882804.00W	Y	FB	TF	199.78	09.08			
GORDO	395030.37N / 0883043.31W	Y	FB	TF	199.67	06.08			
WLDBL	393532.77N / 0883739.20W	Y	FB	TF	199.73	15.88			
HONKK	391623.84N / 0885814.87W	Y	FB	TF	219.94	24.91	AT/BELOW FL310	AT 280K	
AARCH	390537.00N / 0890945.00W	Y	FB	TF	219.77	14.00			
En Route Transition									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

QUALITY CHECKED

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
VHP VORTAC	394853.02N / 0862202.88W	Y		IF					VHP.AARCH1
AKBAR	392327.44N / 0880255.72W	Y	FB	TF	252.49	82.01			
PRUET	392102.00N / 0881240.00W	Y	FB	TF	252.27	07.93			
UKAAY	391015.70N / 0885246.51W	Y	FB	TF	251.15	32.96	AT/BELOW FL310	AT 280K	
AARCH	390537.00N / 0890945.00W		FB	TF	250.73	14.00			
Common Route									
AARCH	390537.00N / 0890945.00W	Y		IF			AT/ABOVE 11000	AT 280K	
PETTI	385946.76N / 0893538.45W	Y	FB	TF	254.01	21.00			
Runway Transition									
PETTI	385946.76N / 0893538.45W	Y		IF					
KRIYA	385737.60N / 0894228.93W	Y	FB	TF	248.08	05.75	AT/ABOVE 11000, AT/BELOW 15000	AT 280K	
JAAKK	385152.87N / 0900038.95W	Y	FB	TF	248.06	15.30	AT/ABOVE 10000, AT/BELOW 11000		
CHOTO	384749.99N / 0901314.99W	Y	FB	TF	247.74	10.64	AT/ABOVE 8000, AT/BELOW 10000		
GETEE	385005.83N / 0901810.92W	Y	FB	TF	300.43	04.47	AT/ABOVE 7000, AT/BELOW 8000	AT 210K	

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

QUALITY CHECKED

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

HRBEE	385141.27N / 0902139.73W	Y	FB	TF	300.32	03.15	AT/ABOVE 5000	AT 210K	
BUELL	385409.28N / 0902704.16W	Y	FO	TF	300.30	04.89	AT 5000	AT 210K	
KSTL RWY 11/12L/12R		Y		FM	300.30				
Runway Transition									
PETTI	385946.76N / 0893538.45W	Y		IF					
SSKOT	385523.02N / 0894112.14W	Y	FB	TF	224.68	06.17	AT/ABOVE 9000, AT/BELOW 10000		
EADDS	385005.42N / 0894753.39W	Y	FB	TF	224.68	07.43	AT/ABOVE 8000, AT/BELOW 9000		
OSHIE	384546.47N / 0895319.66W	Y	FB	TF	224.62	06.05	AT/ABOVE 7000, AT/BELOW 8000	AT 250K	
FDRKO	384301.78N / 0895648.80W	Y	FO	TF	224.86	03.87	AT/ABOVE 6000, AT/BELOW 7000		
KSTL RWY 29/30L/30R		Y		FM	224.86				

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        CSX   K3011645VDHW N38450988W090213946    N38450988W090213946E0000005302     NARCARDINAL
        SUSAD        RBS   K5011680VDL  N40345413W088095136    N40345413W088095136E0020007801     NARROBERTS
        SUSAD        VHP   K5011630VTHW N39485302W086220288    N39485302W086220288E0010008232     NARBRICKYARD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AARCH K50    W     N39053700W089094500                    W0020    NAR          AARCH
        SUSAEAENRT   AKBAR K50    C     N39232744W088025572                    W0029    NAR          AKBAR
        SUSAEAENRT   BASCO K50    W     N39561400W088280400                    W0027    NAR          BASCO
        SUSAEAENRT   BUELL K30    W     N38540928W090270416                    W0010    NAR          BUELL
        SUSAEAENRT   CHOTO K30    W     N38474999W090131499                    W0011    NAR          CHOTO
        SUSAEAENRT   EADDS K50    W     N38500542W089475339                    W0015    NAR          EADDS
        SUSAEAENRT   FDRKO K50    W     N38430178W089564880                    W0013    NAR          FDRKO
        SUSAEAENRT   GETEE K30    W     N38500583W090181092                    W0011    NAR          GETEE
        SUSAEAENRT   GORDO K50    R   H N39503037W088304331                    W0026    NAR          GORDO
        SUSAEAENRT   HONKK K50    W     N39162384W088581487                    W0022    NAR          HONKK
        SUSAEAENRT   HRBEE K30    W     N38514127W090213973                    W0010    NAR          HRBEE
        SUSAEAENRT   JAAKK K50    W     N38515287W090003895                    W0013    NAR          JAAKK
        SUSAEAENRT   JARKE K50    R   H N40044706W088240436                    W0027    NAR          JARKE
        SUSAEAENRT   KRIYA K50    W     N38573760W089422893                    W0015    NAR          KRIYA
        SUSAEAENRT   OSHIE K50    W     N38454647W089531966                    W0014    NAR          OSHIE
        SUSAEAENRT   PETTI K50    C     N38594676W089353845                    W0016    NAR          PETTI
        SUSAEAENRT   PRUET K50    W     N39210200W088124000                    W0028    NAR          PRUET
        SUSAEAENRT   SSKOT K50    W     N38552302W089411214                    W0016    NAR          SSKOT
        SUSAEAENRT   UKAAY K50    W     N39101570W088524651                    W0022    NAR          UKAAY
        SUSAEAENRT   WLDBL K50    R   H N39353277W088373920                    W0025    NAR          WLDBL

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AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        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
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        SUSAP KSTLK3EAARCH14AKBAR 010AKBARK5EA0E       IF                                                  18000
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

FAA Form 7100-3 (9/02)

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SUSAP KSTLK3EAARCH14AKBAR 020PRUETK5EA0E    010TF                    25230079
SUSAP KSTLK3EAARCH14AKBAR 030UKAAYK5EA0E    010TF                    25120330    - FL310          280
SUSAP KSTLK3EAARCH14AKBAR 040AARCHK5EA0EE H 010TF                    25070140                     280
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SUSAP KSTLK3EAARCH14RBS   070AARCHK5EA0EE H 010TF                    21980140                     280
SUSAP KSTLK3EAARCH14VHP   010VHP  K5D 0V       IF                                          18000
SUSAP KSTLK3EAARCH14VHP   020AKBARK5EA0E    010TF                    25250820
SUSAP KSTLK3EAARCH14VHP   030PRUETK5EA0E    010TF                    25230079
SUSAP KSTLK3EAARCH14VHP   040UKAAYK5EA0E    010TF                    25120330    - FL310          280
SUSAP KSTLK3EAARCH14VHP   050AARCHK5EA0EE H 010TF                    25070140                     280
SUSAP KSTLK3EAARCH15      010AARCHK5EA0E  H 010IF                                + 11000     18000280
SUSAP KSTLK3EAARCH15      020PETTIK5EA0EE H 010TF                    25400210
SUSAP KSTLK3EAARCH16RW11  010PETTIK5EA0E  H    IF                                          18000
SUSAP KSTLK3EAARCH16RW11  020KRIYAK5EA0E    010TF                    24810058    B 1500011000     280
SUSAP KSTLK3EAARCH16RW11  030JAAKKK5EA0E    010TF                    24810153    B 1100010000
SUSAP KSTLK3EAARCH16RW11  040CHOTOK3EA0E    010TF                    24770106    B 1000008000
SUSAP KSTLK3EAARCH16RW11  050GETEEK3EA0E    010TF                    30040045    B 0800007000     210
SUSAP KSTLK3EAARCH16RW11  060HRBEEK3EA0E    010TF                    30030032    + 05000          210
SUSAP KSTLK3EAARCH16RW11  070BUELLK3EA0EY   010TF                    30030049      05000          210
SUSAP KSTLK3EAARCH16RW11  080BUELLK3EA0EE      FM CSX K3      334800993003    D
SUSAP KSTLK3EAARCH16RW12B 010PETTIK5EA0E  H    IF                                          18000
SUSAP KSTLK3EAARCH16RW12B 020KRIYAK5EA0E    010TF                    24810058    B 1500011000     280
SUSAP KSTLK3EAARCH16RW12B 030JAAKKK5EA0E    010TF                    24810153    B 1100010000
SUSAP KSTLK3EAARCH16RW12B 040CHOTOK3EA0E    010TF                    24770106    B 1000008000
SUSAP KSTLK3EAARCH16RW12B 050GETEEK3EA0E    010TF                    30040045    B 0800007000     210
SUSAP KSTLK3EAARCH16RW12B 060HRBEEK3EA0E    010TF                    30030032    + 05000          210
SUSAP KSTLK3EAARCH16RW12B 070BUELLK3EA0EY   010TF                    30030049      05000          210
SUSAP KSTLK3EAARCH16RW12B 080BUELLK3EA0EE      FM CSX K3      334800993003    D
SUSAP KSTLK3EAARCH16RW29  010PETTIK5EA0E  H    IF                                          18000
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SUSAP KSTLK3EAARCH16RW29  050FDRKOK5EA0EY   010TF                    22490039    B 0700006000
SUSAP KSTLK3EAARCH16RW29  060FDRKOK5EA0EE      FM CSX K3      096101962249    D
SUSAP KSTLK3EAARCH16RW30B 010PETTIK5EA0E  H    IF                                          18000
SUSAP KSTLK3EAARCH16RW30B 020SSKOTK5EA0E    010TF                    22470062    B 1000009000
SUSAP KSTLK3EAARCH16RW30B 030EADDSK5EA0E    010TF                    22470074    B 0900008000
SUSAP KSTLK3EAARCH16RW30B 040OSHIEK5EA0E    010TF                    22460061    B 0800007000     250
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

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SUSAP KSTLK3EAARCH16RW30B 050FDRKOK5EA0EY   010TF                    22490039    B 0700006000
SUSAP KSTLK3EAARCH16RW30B 060FDRKOK5EA0EE      FM CSX K3      096101962249    D
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```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3GRW11    0090011222 N38453583W090243555-0700    +0157000618000059150IIOGZ3
        SUSAP KSTLK3GRW12L   0090031222 N38450641W090215866+0800    +0129700528000054150IILDZ3
        SUSAP KSTLK3GRW12R   0110191222 N38451159W090223998+0400    +0133200540046754200IILMR1
        SUSAP KSTLK3GRW29    0090013022 N38444846W090225939+0700    +0138100556000056150IIRQN1
        SUSAP KSTLK3GRW30L   0110193022 N38441708W090204942-0400    +0146300583020158200IIBKY1    IRMKL
        SUSAP KSTLK3GRW30R   0090033022 N38441899W090202251-0800    +0152900605000057150IISJW3
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AKBAR	AKBAR	010		IF		FB					
	AKBAR	PRUET	020		TF		FB	1.0	252.3()	007.9		
	AKBAR	UKAAY	030		TF		FB	1.0	251.2()	033.0	AB FL310	AT 280
	AKBAR	AARCH	040		TF		FB	1.0	250.7()	014.0		AT 280
	RBS	RBS	010		IF		FB					
	RBS	JARKE	020		TF		FB	1.0	199.9()	032.0		
	RBS	BASCO	030		TF		FB	1.0	199.8()	009.1		
	RBS	GORDO	040		TF		FB	1.0	199.7()	006.1		
	RBS	WLDBL	050		TF		FB	1.0	199.7()	015.9		
	RBS	HONKK	060		TF		FB	1.0	219.9()	024.9	AB FL310	AT 280
	RBS	AARCH	070		TF		FB	1.0	219.8()	014.0		AT 280
	VHP	VHP	010		IF		FB					
	VHP	AKBAR	020		TF		FB	1.0	252.5()	082.0		
	VHP	PRUET	030		TF		FB	1.0	252.3()	007.9		
	VHP	UKAAY	040		TF		FB	1.0	251.2()	033.0	AB FL310	AT 280
	VHP	AARCH	050		TF		FB	1.0	250.7()	014.0		AT 280
		AARCH	010		IF		FB	1.0			AA 11000	AT 280
		PETTI	020		TF		FB	1.0	254.0()	021.0		
	RW11	PETTI	010		IF		FB					
	RW11	KRIYA	020		TF		FB	1.0	248.1()	005.8	BT 1500011000	AT 280
	RW11	JAAKK	030		TF		FB	1.0	248.1()	015.3	BT 1100010000	
	RW11	CHOTO	040		TF		FB	1.0	247.7()	010.6	BT 1000008000	
	RW11	GETEE	050		TF		FB	1.0	300.4()	004.5	BT 0800007000	AT 210
	RW11	HRBEE	060		TF		FB	1.0	300.3()	003.2	AA 05000	AT 210
	RW11	BUELL	070		TF		FO	1.0	300.3()	004.9	AT 05000	AT 210
	RW11	BUELL	080		FM		FB		300.3()			
	RW12B	PETTI	010		IF		FB					
	RW12B	KRIYA	020		TF		FB	1.0	248.1()	005.8	BT 1500011000	AT 280
	RW12B	JAAKK	030		TF		FB	1.0	248.1()	015.3	BT 1100010000	
	RW12B	CHOTO	040		TF		FB	1.0	247.7()	010.6	BT 1000008000	
	RW12B	GETEE	050		TF		FB	1.0	300.4()	004.5	BT 0800007000	AT 210
	RW12B	HRBEE	060		TF		FB	1.0	300.3()	003.2	AA 05000	AT 210
	RW12B	BUELL	070		TF		FO	1.0	300.3()	004.9	AT 05000	AT 210
	RW12B	BUELL	080		FM		FB		300.3()			
	RW29	PETTI	010		IF		FB					
	RW29	SSKOT	020		TF		FB	1.0	224.7()	006.2	BT 1000009000	
	RW29	EADDS	030		TF		FB	1.0	224.7()	007.4	BT 0900008000	
	RW29	OSHIE	040		TF		FB	1.0	224.6()	006.1	BT 0800007000	AT 250

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

RW29	FDRKO	050	TF	FO	1.0	224.9()	003.9	BT 0700006000	
RW29	FDRKO	060	FM	FB		224.9()			
RW30B	PETTI	010	IF	FB					
RW30B	SSKOT	020	TF	FB	1.0	224.7()	006.2	BT 1000009000	
RW30B	EADDS	030	TF	FB	1.0	224.7()	007.4	BT 0900008000	
RW30B	OSHIE	040	TF	FB	1.0	224.6()	006.1	BT 0800007000	AT 250
RW30B	FDRKO	050	TF	FO	1.0	224.9()	003.9	BT 0700006000	
RW30B	FDRKO	060	FM	FB		224.9()			

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
CSX	N384509.88	W0902139.46	N3845.165	W09021.658
RBS	N403454.13	W0880951.36	N4034.902	W08809.856
VHP	N394853.02	W0862202.88	N3948.884	W08622.048
AARCH	N390537.00	W0890945.00	N3905.617	W08909.750
AKBAR	N392327.44	W0880255.72	N3923.457	W08802.929
BASCO	N395614.00	W0882804.00	N3956.233	W08828.067
BUELL	N385409.28	W0902704.16	N3854.155	W09027.069
CHOTO	N384749.99	W0901314.99	N3847.833	W09013.250
EADDS	N385005.42	W0894753.39	N3850.090	W08947.890
FDRKO	N384301.78	W0895648.80	N3843.030	W08956.813
GETEE	N385005.83	W0901810.92	N3850.097	W09018.182
GORDO	N395030.37	W0883043.31	N3950.506	W08830.722
HONKK	N391623.84	W0885814.87	N3916.397	W08858.248
HRBEE	N385141.27	W0902139.73	N3851.688	W09021.662
JAAKK	N385152.87	W0900038.95	N3851.881	W09000.649
JARKE	N400447.06	W0882404.36	N4004.784	W08824.073
KRIYA	N385737.60	W0894228.93	N3857.627	W08942.482
OSHIE	N384546.47	W0895319.66	N3845.775	W08953.328
PETTI	N385946.76	W0893538.45	N3859.779	W08935.641
PRUET	N392102.00	W0881240.00	N3921.033	W08812.667
SSKOT	N385523.02	W0894112.14	N3855.384	W08941.202
UKAAY	N391015.70	W0885246.51	N3910.262	W08852.775
WLDBL	N393532.77	W0883739.20	N3935.546	W08837.653
RW11	N384535.83	W0902435.55	N3845.597	W09024.593
RW12L	N384506.41	W0902158.66	N3845.107	W09021.978
RW12R	N384511.59	W0902239.98	N3845.193	W09022.666
RW29	N384448.46	W0902259.39	N3844.808	W09022.990
RW30L	N384417.08	W0902049.42	N3844.285	W09020.824
RW30R	N384418.99	W0902022.51	N3844.317	W09020.375

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

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

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
AARCH RNAV	ONE	AARCH.AARCH1	NONE		

RADIO FIX AND HOLDING DATA RECORD

NAME: AARCH **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 390537.00N/0890945.00W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:**

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		WP	070.73	250.73	R		10	10000	17500	16	21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	280	TOWER (17-002057)	391824.00N/0885558.00W	1307	5D

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	AARCH (RNAV)		1	KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: AKBAR **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 392327.44N/0880255.72W **TYPE:** WP, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	BRICKYARD	VHP	VORTAC	H	251.49	252.49	82.01	82.01		15000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VHP	VORTAC	R-251	83	15000	15400

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	VANDALIA	1		KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
REMOVED DP AS CHARTING REQ.
UPDATED FIX USE.

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

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BASCO **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 395614.00N/0882804.00W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BRICKYARD VORTAC **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 394853.02N/0862202.88W **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	BRICKYARD	VHP	VORTAC	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	VHP	VORTAC	256.00	076.00	L	1		2600	10000	4	9
2	NW	VHP	VORTAC	311.00	131.00	R	1		3000	10000	4	9
3	S	VHP	VORTAC	202.00	022.00	L	1		2500	10000	4	9
4	NW		WP	311.00	131.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (18-001444)	395325.00N/0861220.00W	1866	5D
1	200	TOWER (18-001084)	394806.00N/0863424.00W	1530	5D
2	200	TOWER (18-000853)	395214.00N/0863035.00W	1255	5D
3	200	TOWER (18-001377)	395146.32N/0862648.60W	1194	5D
4	200	TOWER (18-002004)	395455.00N/0862338.00W	1268	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 COMPATIBILITY WITH PROCEDURE TURN.
PAT 3 ATC REQUEST.

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

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	DAWNN			KEYE	INDIANAPOLIS	IN (US)
DP	HOOSIER			KEYE	INDIANAPOLIS	IN (US)
DP	MAREO			KEYE	INDIANAPOLIS	IN (US)
DP	ROCKY			KEYE	INDIANAPOLIS	IN (US)
DP	DAWNN			KHFY	INDIANAPOLIS	IN (US)
DP	HOOSIER			KHFY	INDIANAPOLIS	IN (US)
DP	MAREO			KHFY	INDIANAPOLIS	IN (US)
DP	ROCKY			KHFY	INDIANAPOLIS	IN (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	HOOSIER			KIND	INDIANAPOLIS	IN (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	MAREO			KIND	INDIANAPOLIS	IN (US)
DP	MEARZ			KIND	INDIANAPOLIS	IN (US)
DP	ROCKY			KIND	INDIANAPOLIS	IN (US)
DP	DAWNN			KMQJ	INDIANAPOLIS	IN (US)
DP	HOOSIER			KMQJ	INDIANAPOLIS	IN (US)
DP	MAREO			KMQJ	INDIANAPOLIS	IN (US)
DP	ROCKY			KMQJ	INDIANAPOLIS	IN (US)
DP	DAWNN			KTYQ	INDIANAPOLIS	IN (US)
DP	HOOSIER			KTYQ	INDIANAPOLIS	IN (US)
DP	MAREO			KTYQ	INDIANAPOLIS	IN (US)
DP	ROCKY			KTYQ	INDIANAPOLIS	IN (US)
DP	DAWNN			KUMP	INDIANAPOLIS	IN (US)
DP	HOOSIER			KUMP	INDIANAPOLIS	IN (US)
DP	MAREO			KUMP	INDIANAPOLIS	IN (US)
DP	ROCKY			KUMP	INDIANAPOLIS	IN (US)
DP	DAWNN			KGEZ	SHELBYVILLE	IN (US)
DP	HOOSIER			KGEZ	SHELBYVILLE	IN (US)
DP	MAREO			KGEZ	SHELBYVILLE	IN (US)
DP	ROCKY			KGEZ	SHELBYVILLE	IN (US)
DP	LOVEY (RNAV)			KCVG	COVINGTON	KY (US)
DP	WHITEWATER			KCVG	COVINGTON	KY (US)
DP	STREP (RNAV)			KSDF	LOUISVILLE	KY (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	OBRLN			KBKL	CLEVELAND	OH (US)

QUALITY 3 CHECKED

INFO ONLY

DP	OBRLN		KCGF	CLEVELAND	OH (US)
DP	OBRLN		KCLE	CLEVELAND	OH (US)
DP	DAYTON		KDAY	DAYTON	OH (US)
DP	OBRLN		K1G1	ELYRIA	OH (US)
DP	OBRLN		KLPR	LORAIN/ELYRIA	OH (US)
DP	OBRLN		K1G5	MEDINA	OH (US)
DP	OBRLN		K7G8	MIDDLEFIELD	OH (US)
DP	OBRLN		K2G1	PAINESVILLE	OH (US)
DP	OBRLN		KLNN	WILLOUGHBY	OH (US)
DP	TITAN (OBSTACLE)		KBNA	NASHVILLE	TN (US)
EN ROUTE	J110				(US)
EN ROUTE	J24				(US)
EN ROUTE	J80				(US)
EN ROUTE	V11				(US)
EN ROUTE	V128				(US)
EN ROUTE	V14				(US)
EN ROUTE	V192				(US)
EN ROUTE	V210				(US)
EN ROUTE	V24				(US)
EN ROUTE	V285				(US)
EN ROUTE	V305				(US)
EN ROUTE	V399				(US)
EN ROUTE	V434				(US)
EN ROUTE	V50				(US)
EN ROUTE	V53				(US)
EN ROUTE	V96				(US)
IAP	NDB RWY 4		KCFJ	CRAWFORDSVILLE	IN (US)
IAP	RNAV (GPS) RWY 18		K4I7	GREENCASTLE	IN (US)
IAP	VOR/DME-A		K4I7	GREENCASTLE	IN (US)
IAP	COPTER RNAV (GPS) 291	4	K8A4	INDIANAPOLIS	IN (US)
IAP	LOC RWY 21	1	KEYE	INDIANAPOLIS	IN (US)
IAP	NDB RWY 21	1	KEYE	INDIANAPOLIS	IN (US)
IAP	RNAV (GPS) RWY 21		KEYE	INDIANAPOLIS	IN (US)
IAP	VOR-A	1	KEYE	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 14		KIND	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 23L		KIND	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 23R	2	KIND	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 32	2	KIND	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 5L	2	KIND	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 5R		KIND	INDIANAPOLIS	IN (US)
IAP	ILS RWY 5L (CAT II)	2	KIND	INDIANAPOLIS	IN (US)
IAP	ILS RWY 5L (CAT III)	2	KIND	INDIANAPOLIS	IN (US)
IAP	ILS RWY 5R (CAT II)		KIND	INDIANAPOLIS	IN (US)
IAP	ILS RWY 5R (CAT III)		KIND	INDIANAPOLIS	IN (US)
IAP	VOR RWY 34		KMQJ	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 36		KTYQ	INDIANAPOLIS	IN (US)
IAP	RNAV (GPS) RWY 36		KTYQ	INDIANAPOLIS	IN (US)
IAP	VOR RWY 36	3	KTYQ	INDIANAPOLIS	IN (US)
IAP	VOR/DME RWY 18	3	KTYQ	INDIANAPOLIS	IN (US)
IAP	NDB RWY 15		KUMP	INDIANAPOLIS	IN (US)
IAP	VOR RWY 33		KUMP	INDIANAPOLIS	IN (US)
IAP	VOR-B		K3I3	TERRE HAUTE	IN (US)
STAR	CLANG		KEYE	INDIANAPOLIS	IN (US)
STAR	DECEE		KEYE	INDIANAPOLIS	IN (US)
STAR	CLANG		KIND	INDIANAPOLIS	IN (US)
STAR	DECEE		KIND	INDIANAPOLIS	IN (US)
STAR	RACYR		KIND	INDIANAPOLIS	IN (US)
STAR	CLANG		KMQJ	INDIANAPOLIS	IN (US)
STAR	CEGRM (RNAV)		KCVG	COVINGTON	KY (US)
STAR	SHELBYVILLE		KCVG	COVINGTON	KY (US)
STAR	AARCH (RNAV)		KSTL	ST LOUIS	MO (US)
STAR	VANDALIA		KSTL	ST LOUIS	MO (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	GUNNE		KCMH	COLUMBUS	OH (US)
STAR	GUNNE		KLCK	COLUMBUS	OH (US)
STAR	GUNNE		KOSU	COLUMBUS	OH (US)
STAR	GUNNE		KTZR	COLUMBUS	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	GUNNE		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	GUNNE		KVTA	NEWARK	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 09/20/2012

QUALITY 3 CHECKED

REASON FOR REVISION:
DELETED PAT 1 AND 2 CLIMB-IN-HOLD DATA.

DEVELOPED BY:	**DATE:** 03/29/2012	**OFFICE:** AJV-353	**NAME:** JILL OLSON (MARK BURTZ)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: IND APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: BUELL **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385409.28N/0902704.16W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: CHOTO **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384749.99N/0901314.99W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EADDS **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 385005.42N/0894753.39W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: FDRKO **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 384301.78N/0895648.80W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 29			KSTL	ST LOUIS	MO (US)
IAP	RNAV (RNP) Z RWY 30L			KSTL	ST LOUIS	MO (US)
IAP	RNAV (RNP) Z RWY 30R			KSTL	ST LOUIS	MO (US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED STAR TO CHARTING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/13/2012 **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:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GETEE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385005.83N/0901810.92W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GORDO **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 395030.37N/0883043.31W **TYPE:** INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SPINNER	SPI	VORTAC	H	090.50	089.50	53.87	53.87		18000	45000
2	CENTRALIA	ENL	VORTAC	H	015.31	019.31	90.42	90.42		18000	45000

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J71	1, 2				(US)
EN ROUTE	J80	1, 2				(US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED DIST FROM FAC FOR FAC 1 AND 2.
UPDATED FIX USE.

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

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

SIGNATURE:

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

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: HONKK **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 391623.84N/0885814.87W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HRBEE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385141.27N/0902139.73W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 11			KSTL	ST LOUIS	MO (US)
IAP	RNAV (RNP) Z RWY 12L			KSTL	ST LOUIS	MO (US)
IAP	RNAV (RNP) Z RWY 12R			KSTL	ST LOUIS	MO (US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 04/24/2012 **OFFICE:** AJV-353 **NAME:** LONNIE EVERHART

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

SIGNATURE:

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

INFO ONLY

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: JAAKK **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 385152.87N/0900038.95W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JARKE **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 400447.06N/0882404.36W **TYPE:** 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	ROBERTS	RBS	VOR/DME	L	197.94	199.94	32.00			18000	35000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RBS	VOR/DME	R-198	32	18700	35000

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

REMARKS:
TRANSFER FIX BETWEEN ZUA AND ZKC.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J71	1				(US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	VANDALIA	1		KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ENTERED ESV DATA INTO CORRECT AREA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/23/2012 **OFFICE:** AJV-353 **NAME:** JON DENTON

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU, ZKC
ATC FACILITY:
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: KRIYA **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 385737.60N/0894228.93W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OSHIE **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 384546.47N/0895319.66W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: PETTI **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 385946.76N/0893538.45W **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	VANDALIA	VLA	VORTAC	L	249.98	253.98	21.01	21.01		7000	17500
2	CENTRALIA	ENL	VORTAC	H	325.53	329.53		40.13		7000	45000
3	CARDINAL	CSX	VOR/DME	H	067.65	067.65	38.79	38.79		7000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ENL	VORTAC	R-326	41	7000	15100

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	VLA	VORTAC	249.98	249.98	R	1-1 1/2		7000	17000	10	18
2	E		WP	074.01	254.01	R		10	7000	17500	15	21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	CRANE (17-020014)	390330.30N/0892416.30W	1201	4D
2	280	CRANE (17-020014)	390330.30N/0892416.30W	1201	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
VANDALIA (FAC 1) AND CENTRALIA (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	AARCH (RNAV)		2	KSTL	ST LOUIS	MO (US)
STAR	VANDALIA	1, 2, 3	1	KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
UPDATED FAC 1 BRG AND DIST FROM FAC 1, NEW COORDINATES FOR VORTAC.
CHANGED HOLDING PATTERN 1 CRS INBOUND FROM 250.00 TO 249.98.
ADDED HOLDING PATTERN 2.

DEVELOPED BY: **DATE:** 05/23/2012 **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:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PRUET **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 392102.00N/0881240.00W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

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

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

SIGNATURE:

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

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: ROBERTS VOR/DME **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 403454.13N/0880951.36W **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	ROBERTS	RBS	VOR/DME	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	N	RBS	VOR/DME	345.91	165.91	R	1		2500	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (17-002225)	403244.00N/0881508.00W	1143	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
EN ROUTE	J19-71					(US)
EN ROUTE	J19					IL (US)
EN ROUTE	J71					IL (US)
EN ROUTE	V191					IL (US)
EN ROUTE	V227					IL (US)
EN ROUTE	V233					IL (US)
EN ROUTE	V429					IL (US)
IAP	ILS OR LOC RWY 20			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	ILS OR LOC RWY 29			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	ILS OR LOC/DME RWY 2			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	ILS RWY 20 (CATII)			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	RNAV (GPS) RWY 14L			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	RNAV (GPS) RWY 22			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	VOR RWY 4			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	VOR/DME RWY 14L			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	VOR/DME RWY 22			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	LOC RWY 2			KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	ILS OR LOC RWY 21			KDNV	DANVILLE	IL (US)
IAP	RNAV (GPS) RWY 27			KDTG	DWIGHT	IL (US)
IAP	ILS OR LOC RWY 4			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 34			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 4			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 22			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 4			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 18		1	K1C1	PAXTON	IL (US)
IAP	RNAV (GPS) RWY 24			KPNT	PONTIAC	IL (US)
IAP	RNAV (GPS) RWY 6			KPNT	PONTIAC	IL (US)
IAP	VOR RWY 24			KPNT	PONTIAC	IL (US)
IAP	VOR RWY 27			KTIP	RANTOUL	IL (US)
IAP	VOR OR GPS - A			KC16	URBANA	IL (US)
IAP	VOR/DME OR GPS - B			KC16	URBANA	IL (US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	VANDALIA			KSTL	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 07/01/2010

REASON FOR REVISION:

INFO ONLY
QUALITY CHECKED 3

1. UPDATED CONTROLLING OBSTACLE.
2. UPDATED FIX USE
3. ADDED HOLDING RESTRICTION.
4. REMOVED ESV ON FILE NOTE.
5. CHANGED HOLDING PATTERN 1 INBOUND COURSE FROM 166 TO 165.91 TO ALIGN WITH FINAL.
6. ADDED PRECIPITOUS EVALUATION NOTE.

DEVELOPED BY:	**DATE:** 01/11/2010	**OFFICE:** AVN-120	**NAME:** JOSE ALFONSO (SCOTT BAGENSIE)
APPROVED BY:	**DATE:** 05/11/2010	**OFFICE:** AVN-120	**NAME:** SUE CRUMB
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZAU
ATC FACILITY: ORD APP CON, BMI ATCT, CMI ATCT
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SSKOT **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 385523.02N/0894112.14W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: UKAAY **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 391015.70N/0885246.51W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/06/2012 **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:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: WLDBL **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 393532.77N/0883739.20W **TYPE:** INT

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

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	015.31	019.31		74.55		18000	45000
2	SPINNER	SPI	VORTAC	H	107.62	106.62		50.83		18000	45000

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J71	1, 2				(US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	VANDALIA	1, 2		KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/23/2012 **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:

QUALITY 3 CHECKED

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:

ST LOUIS, MO. (STL)
LAMBERT - ST LOUIS INTL
AARCH (RNAV) ARRIVAL

2. Waiver Required and Applicable Standard:

DESIGN STANDARD INTRUMENT ARRIVAL (STAR) SEGMENTS TO PROVIDE DESCENT AT THE STANDARD GRADIENT IAW 7100.9D APPENDIX 2, PARA 2.e.(2) AND 8260.3 PARA 220c. THE DESCENT GRADIENT IN THE SEGMENT FROM GETEE TO HRBEE EXCEEDS 500 FT/NM.

3. Reason for Waiver *(Justification for nonstandard treatment)*:

GROUND TRACK/DESCENT GRADIENT IS COLLABORATION BETWEEN AIR CARRIER, ST LOUIS AIR TRAFFIC, FAA REQUIRED NAVIGATION PERFORMANCE OFFICE AND TERMINAL PROCEDURES AND CHARTING SERVICES TEAM. PROCEDURE PROVIDES OPTIMUM FUEL ECONOMY ON REPEATABLE GROUND TRACK THAT PROCEDURALLY SEPARATES AND BLENDS INTO EXISTING TRAFFIC FLOW. THIS PROCEDURE WILL BE CONNECTED TO RNAV (GPS) STARS THAT PROVIDE STABILIZED OPTIMUM DESCENT, AND PREDICTABLE OPERATION FROM THE ENROUTE TO LANDING.

4. Equivalent Level of Safety Provided:

1. OVERALL PROCEDURE DESIGN PROVIDES SHALLOW SEGMENTS, ALLOWING DECEL AND CONFIGURATION PRIOR TO ENTERING TERMINAL SEGMENT AREA, THE DESCENT GRADIENT FROM THE COMMON POINT, AARCH TO HRBEE IS 165.81 FT/NM.
2. PROCEDURE VALIDATED IN SIMULATOR TEST WITH SATISFACTORY RESULTS.
3.THE ALTITUDES CHOSEN FOR THE CROSSING RESTRICTIONS WERE SELECTED, IN CONJUNCTION WITH THE USERS, TO BEST FIT THE VARIETY OF AIRFRAMES FLYING THESE PROCEDURES AND THE FINAL ALTITUDE IN EACH SEGMENT ALSO SERVES TO SEGREGATE ARRIVALS FROM OTHER AIRSPACE USERS.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

NA - RNAV PROCEDURE.

6. Coordination With User Organizations *(Specify)*:

AJV-353
AJV-351

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
5/14/2012	**AJV-35**	**MANAGER, TERMINAL PROCEDURES AND CHARTING SERVICES TEAM**	**GREGORY YAMAMOTO**

8. CONTINUATION
Comments:

9. AFS ACTION		
	☐	Approved
	☐	Disapproved
	☐	Not Required

Comments:

Date:	Routing Symbol:	Signature:

Name:	enanders
Project Name:	
Output File:	AARCH STAR VHP FDRKO 20120423_1444
Procedure Name:	AARCH
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/23/2012 2:44:04 PM
Input File:	KALN AARCH STAR VHP FDRKO 20120423_1420.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

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

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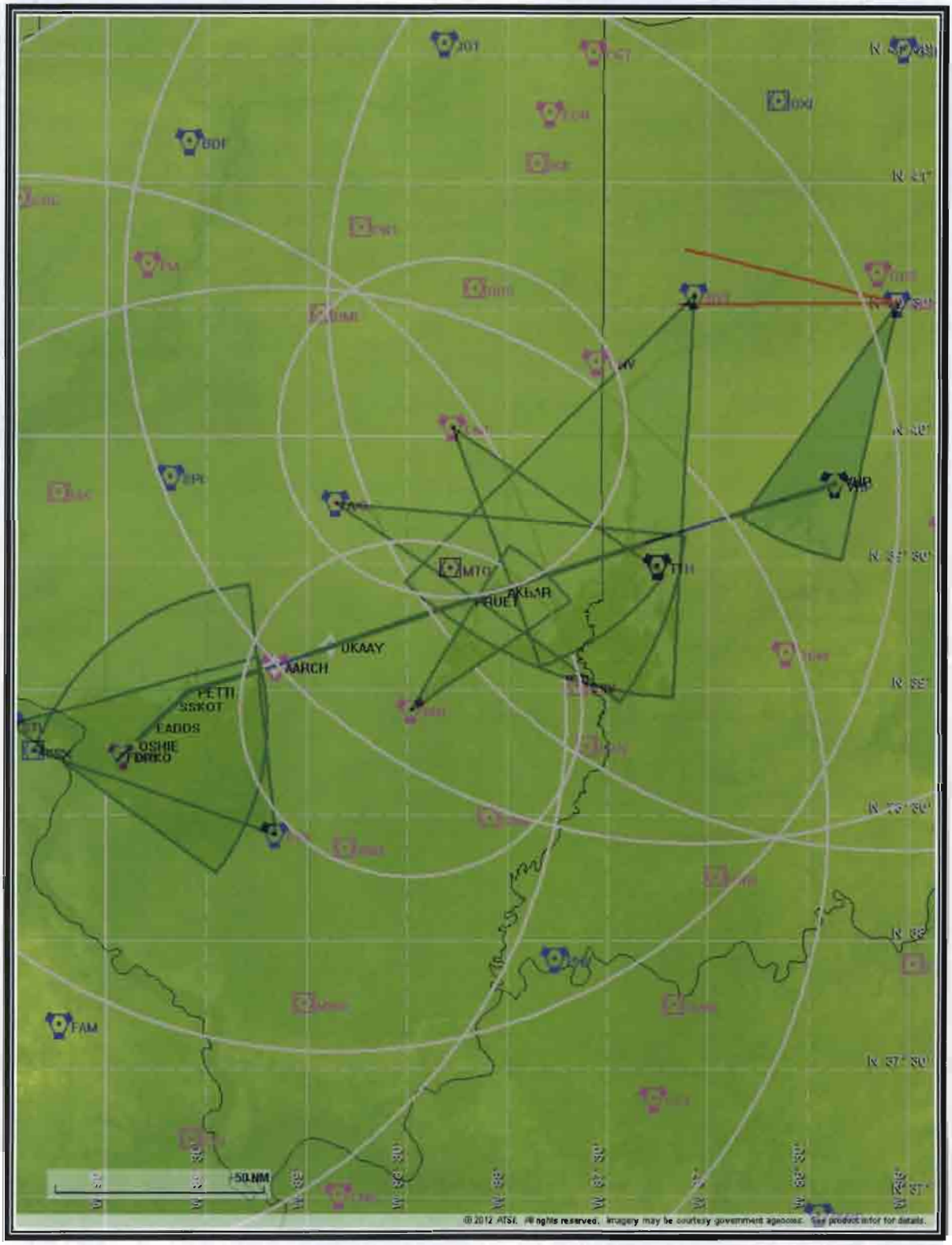
UKAAY
AARCH
PETTI
SSKOT
LADDS
OSHIE
DRKO
AKLAR
HUEY
MTOY
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
VHP	WP	N 39° 48' 53.02" W 86° 22' 2.88"	15000.0	Step	280.0	Fly By	TF
AKBAR	WP	N 39° 23' 27.44" W 88° 2' 55.72"	15000.0	Step	210.0	Fly By	TF
PRUET	WP	N 39° 21' 2.00" W 88° 12' 40.00"	10000.0	Step	180.0	Fly By	TF
UKAAY	WP	N 39° 10' 15.70" W 88° 52' 46.51"	10000.0	Step	280.0	Fly By	TF
AARCH	WP	N 39° 5' 37.00" W 89° 9' 45.00"	10000.0	Step	280.0	Fly By	TF
PETTI	WP	N 38° 59' 46.76" W 89° 35' 38.45"	7000.0	Step	180.0	Fly By	TF
SSKOT	WP	N 38° 55' 23.02" W 89° 41' 12.14"	4000.0	Step	180.0	Fly By	TF
EADDS	WP	N 38° 50' 5.42" W 89° 47' 53.39"	4000.0	Step	180.0	Fly By	TF
OSHIE	WP	N 38° 45' 46.47" W 89° 53' 19.66"	4000.0	Step	250.0	Fly By	TF
FDRKO	WP	N 38° 43' 1.78" W 89° 56' 48.80"	4000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan

Aircraft ALTITUDE at Fly-By WP PRIJET too high.

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 14

Maximum DME Error: 0.751 NM.

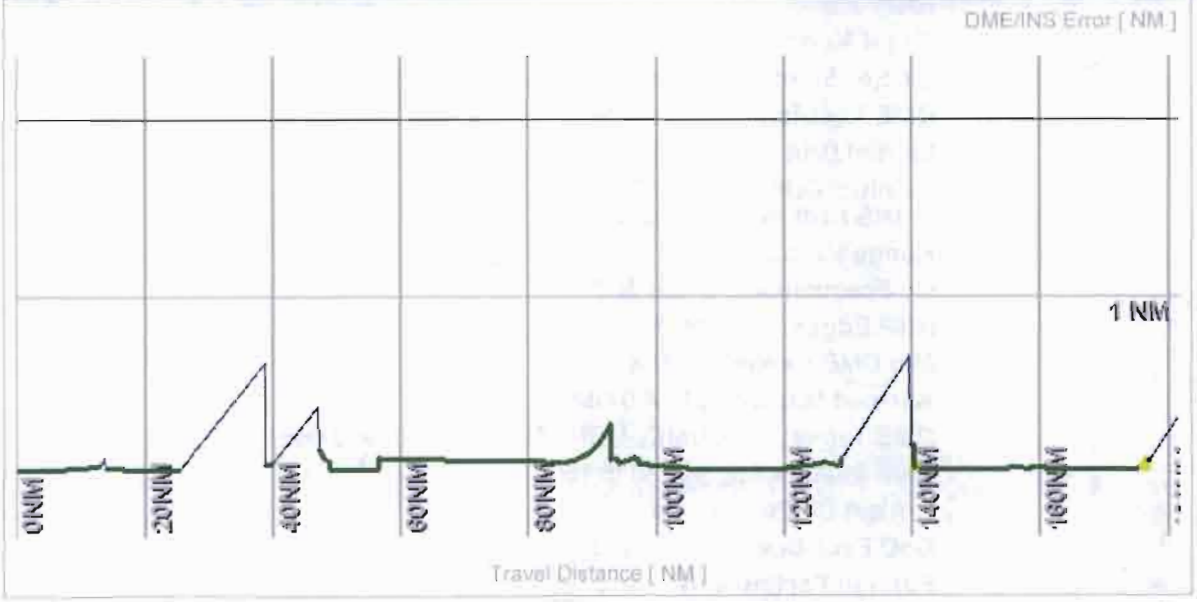
No Critical DMEs were found.

Available DMEs: OKK, SHB, VHP, TTH, OOM, BVT, AXC, MTO, CMI, PXV, BIB, VLA, TOY, ENL, CSX, STL

Foreign DMEs within range: YQG

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H + ESV	User	NO	0.762	Enabled	6.4 %	7.0 %
2	SHB	N 39° 37' 57.15" W 85° 49' 27.54" E 1	L	Database	NO	1.014	Enabled	6.4 %	7.0 %
3	OOM	N 39° 8' 37.76" W 86° 36' 46.87" W 2	L	Database	NO	1.161	Enabled	5.8 %	6.4 %
4	VHP	N 39° 48' 53.02" W 86° 22' 2.88" E 1	H	Database	NO	1.007	Enabled	6.4 %	7.0 %
5	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H + ESV	User	NO	1.317	Enabled	11.4 %	12.2 %
6	TTH	N 39° 29' 20.19" W 87° 14' 56.47" E 2	H	Database	NO	0.751	Enabled	13.0 %	14.3 %
7	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.751	Enabled	17.0 %	16.1 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56" E 3	H	Database	NO	0.751	Enabled	13.0 %	14.3 %
9	MTO	N 39° 28' 40.42" W 88° 17' 10.44" E 3	L	Database	NO	0.727	Enabled	14.7 %	14.6 %
10	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L + ESV	User	NO	0.792	Enabled	11.1 %	10.1 %
11	VLA	N 39° 5' 37.82" W 89° 9' 44.08" E 4	L	Database	NO	0.751	Enabled	20.9 %	19.2 %
12	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.789	Enabled	10.9 %	10.0 %
13	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	1.695	Enabled	22.0 %	20.2 %
14	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.751	Enabled	1.2 %	1.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	TTH	SHB	VHP	OKK	OOM	
29.6	TTH	BVT	VHP			
39.8	TTH	BVT	AXC	PXV	MTO	CMI
81.9	TTH	BVT	AXC	PXV	MTO	BIB
89.9	VLA	BVT	AXC	BIB	MTO	
122.9	VLA	MTO	AXC	BIB		
136.7	VLA	TOY	ENL	BIB		
157.3	VLA	TOY	ENL	CSX	STL	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
164.0	VLA	TOY	ENL	STL		
171.5	VLA	TOY	ENL	STL		
177.5	STL	CSX	ENL			

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 45' 2.04" W 86° 37' 47.81"	N 39° 44' 45.01" W 86° 38' 56.98"	0.9
	VOR: OOM	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"	
	VOR: SHB	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"	
	VOR: TTH	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"	
	VOR: VHP	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"	
2	N 39° 41' 9.98" W 86° 53' 25.91"	N 39° 37' 4.69" W 87° 9' 46.44"	13.3
	VOR: OOM	Available from N 39° 41' 9.98" W 86° 53' 25.91" to N 39° 37' 4.69" W 87° 9' 46.44"	
	VOR: TTH	Available from N 39° 41' 9.98" W 86° 53' 25.91" to N 39° 37' 4.69" W 87° 9' 46.44"	
	VOR: VHP	Available from N 39° 41' 9.98" W 86° 53' 25.91" to N 39° 37' 4.69" W 87° 9' 46.44"	
3	N 39° 36' 43.63" W 87° 11' 10.11"	N 39° 34' 30.68" W 87° 19' 56.44"	7.1
	VOR: OOM	Available from N 39° 36' 43.63" W 87° 11' 10.11" to N 39° 35' 52.77" W 87° 14' 31.86"	
	VOR: TTH	Available from N 39° 36' 43.63" W 87° 11' 10.11" to N 39° 34' 30.68" W 87° 19' 56.44"	
	VOR: VHP	Available from N 39° 36' 43.63" W 87° 11' 10.11" to N 39° 36' 41.15" W 87° 11' 19.95"	
	VOR: RSV	Available from N 39° 36' 1.46" W 87° 13' 57.42" to N 39° 34' 30.68" W 87° 19' 56.44"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
4	N 39° 8' 17.42" W 89° 0' 0.24"	N 39° 4' 53.28" W 89° 12' 59.32"	10.7
	VOR: AXC	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 6' 14.50" W 89° 7' 28.71"	
	VOR: BIB	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 4' 53.28" W 89° 12' 59.32"	
	VOR: MTO	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 7' 57.53" W 89° 1' 13.00"	
	VOR: VLA	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 4' 53.28" W 89° 12' 59.32"	
	VOR: TOY	Available from N 39° 5' 14.41" W 89° 11' 24.67" to N 39° 4' 53.28" W 89° 12' 59.32"	
	VOR: ENL	Available from N 39° 5' 11.66" W 89° 11' 37.02" to N 39° 4' 53.28" W 89° 12' 59.32"	
5	N 38° 46' 13.08" W 89° 52' 46.19"	N 38° 43' 3.68" W 89° 56' 46.37"	4.4
	VOR: CSX	Available from N 38° 46' 13.08" W 89° 52' 46.19" to N 38° 43' 3.68" W 89° 56' 46.37"	
	VOR: ENL	Available from N 38° 46' 13.08" W 89° 52' 46.19" to N 38° 45' 49.31" W 89° 53' 16.10"	
	VOR: STL	Available from N 38° 46' 13.08" W 89° 52' 46.19" to N 38° 43' 3.68" W 89° 56' 46.37"	
	VOR: TOY	Available from N 38° 46' 13.08" W 89° 52' 46.19" to N 38° 43' 3.68" W 89° 56' 46.37"	
	VOR: VLA	Available from N 38° 46' 13.08" W 89° 52' 46.19" to N 38° 45' 20.86" W 89° 53' 52.09"	

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]: 290.0° to 354.0° Bearing [Mag]: 286.0° to 350.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		

DME/DME (Continued.)

Return To Summary

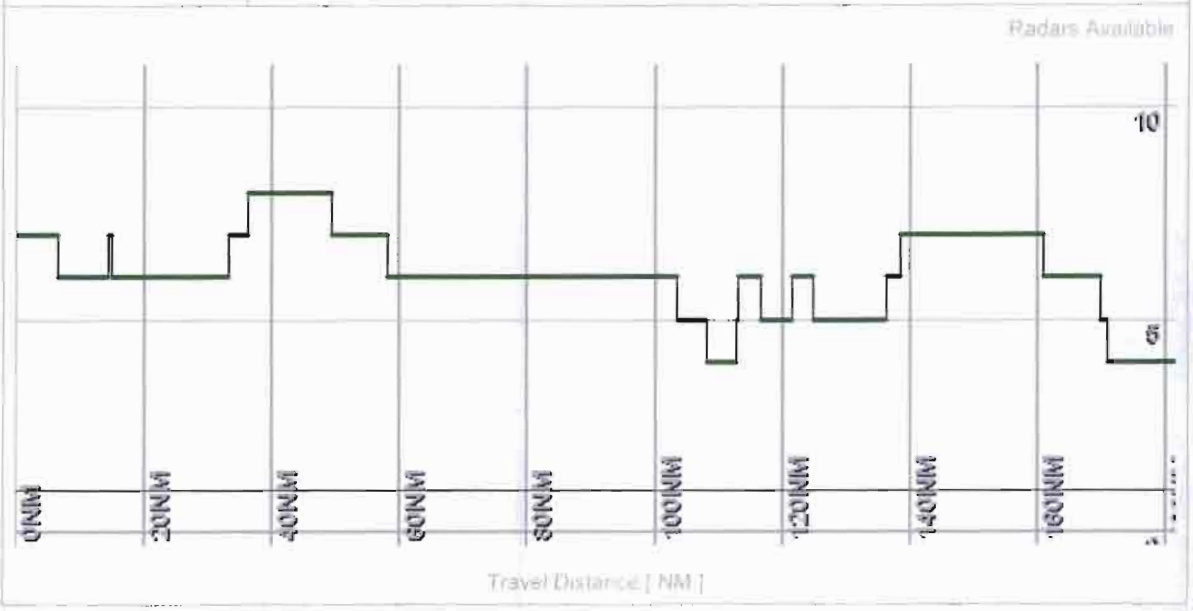
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Not Used
		ESV:	Bearing [True]: 74.0° to 126.0° Bearing [Mag]: 73.0° to 125.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
3	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H	826.6	113.50	OKK	Used
		Restriction:	Bearing [True]: 270.0° to 285.0° Bearing [Mag]: 270.0° to 285.0°		Distance: Beyond 0.0 NM Altitude: Below 6000.0 Ft.		
		ESV:	Bearing [True]: 192.0° to 215.0° Bearing [Mag]: 192.0° to 215.0°		Arc Distance: Out to 62.0 NM Altitude: 5000.0 to 17000.0 Ft.		
4	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H	750.0	115.10	BVT	Used
		ESV:	Bearing [True]: 183.0° to 225.0° Bearing [Mag]: 182.0° to 224.0°		Arc Distance: Out to 95.0 NM Altitude: 5500.0 to 17000.0 Ft.		
5	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV:	Bearing [True]: 95.0° to 125.0° Bearing [Mag]: 92.0° to 122.0°		Arc Distance: Out to 81.0 NM Altitude: 5000.0 to 18000.0 Ft.		
6	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L	534.6	109.00	BIB	Used
		ESV:	Bearing [True]: 30.0° to 55.0° Bearing [Mag]: 27.0° to 52.0°		Arc Distance: Out to 45.0 NM Altitude: 5000.0 to 17000.0 Ft.		
7	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L	744.7	110.00	CMI	Not Used
		ESV:	Bearing [True]: 125.0° to 160.0° Bearing [Mag]: 122.0° to 157.0°		Arc Distance: Out to 60.0 NM Altitude: 9000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	enanders
Project Name:	
Output File:	AARCH STAR RBS FDRKO 20120606_0904
Procedure Name:	AARCH
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/6/2012 9:04:33 AM
Input File:	KSTL AARCH STAR RBS FDRKO 20120606_0845.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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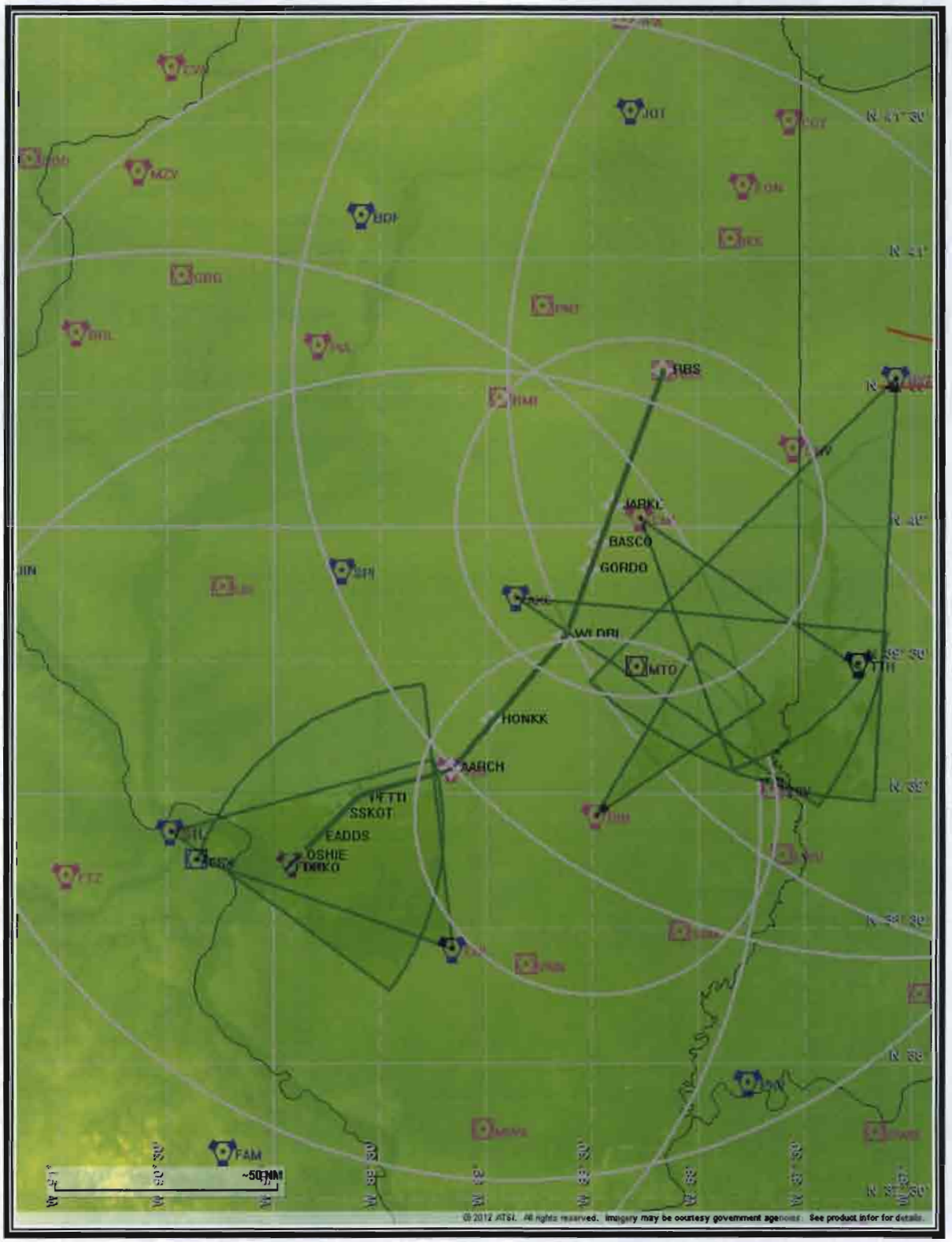
RBS
JARKI
BASCO
GORDO
WIDRI
MTO
HONKK
AARCH
PETTI
SSKOT
EADDS
OSHIE
DRKO
FAM
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RBS	WP	N 40° 34' 54.13" W 88° 9' 51.36"	18000.0	Step	280.0	Fly By	TF
JARKE	WP	N 40° 4' 47.06" W 88° 24' 4.36"	18000.0	Step	240.0	Fly By	TF
BASCO	WP	N 39° 56' 14.00" W 88° 28' 4.00"	18000.0	Step	240.0	Fly By	TF
GORDO	WP	N 39° 50' 30.37" W 88° 30' 43.31"	18000.0	Step	240.0	Fly By	TF
WLDBL	WP	N 39° 35' 32.77" W 88° 37' 39.20"	15000.0	Step	210.0	Fly By	TF
HONKK	WP	N 39° 16' 23.84" W 88° 58' 14.87"	15000.0	Step	280.0	Fly By	TF
AARCH	WP	N 39° 5' 37.00" W 89° 9' 45.00"	15000.0	Step	280.0	Fly By	TF
PETTI	WP	N 38° 59' 46.76" W 89° 35' 38.45"	7000.0	Step	180.0	Fly By	TF
SSKOT	WP	N 38° 55' 23.02" W 89° 41' 12.14"	4000.0	Step	180.0	Fly By	TF
EADDS	WP	N 38° 50' 5.42" W 89° 47' 53.39"	4000.0	Step	180.0	Fly By	TF
OSHIE	WP	N 38° 45' 46.47" W 89° 53' 19.66"	4000.0	Step	250.0	Fly By	TF
FDRKO	WP	N 38° 43' 1.78" W 89° 56' 48.80"	4000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan
Entire track is fly-able	

DME/DME

Return To Summary

Settings:

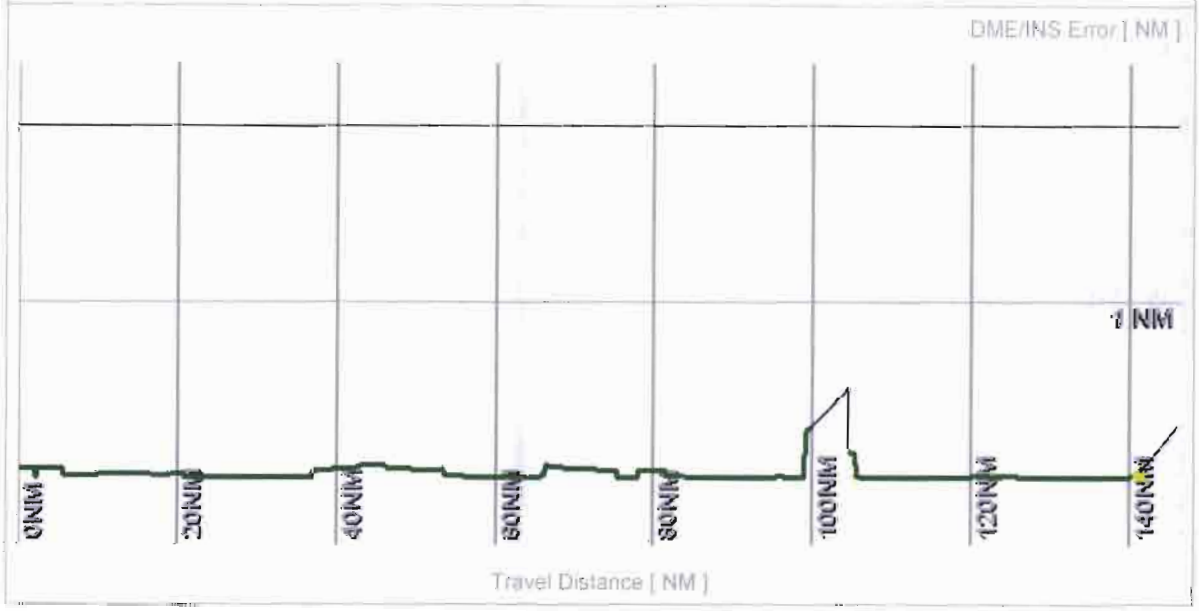
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 18

Maximum DME Error: 0.648 NM.

No Critical DMEs were found.

Available DMEs: BVT, AXC, CMI, BDF, BMI, DNV, IKK, JOT, OBK, OXI, PNT, SPI, TTH, VHP, RBS, MTO, ENL, STL, VLA, BIB, TOY, CSX



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	OXI	N 41° 19' 19.35" W 86° 38' 57.45" E 0	H	Database	NO	0.648	Enabled	3.2 %	3.6 %
2	TTH	N 39° 29' 20.19" W 87° 14' 56.47" E 2	H	Database	NO	0.648	Enabled	11.1 %	12.0 %
3	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.648	Enabled	29.1 %	31.4 %
4	PNT	N 40° 49' 16.32" W 88° 44' 0.63" E 3	L	Database	NO	0.648	Enabled	0.1 %	0.1 %
5	BDF	N 41° 9' 35.03" W 89° 35' 16.34" E 0	H	Database	NO	0.648	Enabled	12.5 %	13.8 %
6	DNV	N 40° 17' 37.63" W 87° 33' 25.87" E 2	L	Database	NO	0.648	Enabled	2.5 %	2.8 %
7	JOT	N 41° 32' 47.10" W 88° 19' 6.28" E 2	H	Database	NO	0.648	Enabled	2.5 %	2.8 %
8	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H + ESV	User	NO	0.648	Enabled	3.1 %	3.5 %
9	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L + ESV	User	NO	0.661	Enabled	8.0 %	8.3 %
10	BMI	N 40° 28' 50.90" W 88° 55' 52.56" E 3	L	Database	NO	0.648	Enabled	5.3 %	5.9 %
11	MTO	N 39° 28' 40.42" W 88° 17' 10.44" E 3	L	Database	NO	0.648	Enabled	8.1 %	8.3 %
12	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	1.670	Enabled	33.4 %	30.0 %
13	SPI	N 39° 50' 23.04" W 89° 40' 39.83" W 1	H	Database	NO	0.648	Enabled	0.0 %	0.0 %
14	VLA	N 39° 5' 37.82" W 89° 9' 44.08" E 4	L	Database	NO	0.648	Enabled	24.8 %	23.8 %
15	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	0.496	Enabled	8.9 %	9.1 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L + ESV	User	NO	0.549	Enabled	17.6 %	18.0 %
17	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.679	Enabled	14.3 %	12.3 %
18	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.648	Enabled	1.6 %	1.4 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	AXC	BDF	PNT	OXI	TTH	BMI
10.1	AXC	BDF	DNV	JOT	TTH	BVT
21.8	AXC	BVT	BMI	CMI	TTH	JOT
32.0	AXC	BDF	BMI	CMI	MTO	JOT
41.1	AXC	BDF	BVT	ENL	TTH	MTO
47.2	CMI	MTO	SPI	ENL	TTH	AXC
62.3	CMI	STL	VLA	BIB	AXC	MTO
72.5	MTO	STL	VLA	BIB	AXC	
87.9	MTO	STL	VLA	BIB	AXC	
101.1	TOY	STL	VLA	BIB	ENL	
122.3	TOY	STL	VLA	CSX	ENL	
129.0	TOY	STL	VLA	ENL		
136.5	TOY	STL	VLA	ENL		
142.5	ENL	STL	CSX			

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 7' 21.45" W 89° 7' 53.92"	N 39° 4' 52.92" W 89° 13' 1.42"	4.9
	VOR: AXC	Available from N 39° 7' 21.45" W 89° 7' 53.92" to N 39° 6' 35.21" W 89° 8' 43.12"	
	VOR: BIB	Available from N 39° 7' 21.45" W 89° 7' 53.92" to N 39° 4' 52.92" W 89° 13' 1.42"	
	VOR: VLA	Available from N 39° 7' 21.45" W 89° 7' 53.92" to N 39° 4' 52.92" W 89° 13' 1.42"	
	VOR: TOY	Available from N 39° 5' 13.89" W 89° 11' 27.60" to N 39° 4' 52.92" W 89° 13' 1.42"	
	VOR: ENL	Available from N 39° 5' 11.68" W 89° 11' 37.47" to N 39° 4' 52.92" W 89° 13' 1.42"	
2	N 38° 46' 13.18" W 89° 52' 46.06"	N 38° 43' 3.79" W 89° 56' 46.24"	4.4
	VOR: CSX	Available from N 38° 46' 13.18" W 89° 52' 46.06" to N 38° 43' 3.79" W 89° 56' 46.24"	
	VOR: ENL	Available from N 38° 46' 13.18" W 89° 52' 46.06" to N 38° 45' 49.41" W 89° 53' 15.97"	
	VOR: STL	Available from N 38° 46' 13.18" W 89° 52' 46.06" to N 38° 43' 3.79" W 89° 56' 46.24"	
	VOR: TOY	Available from N 38° 46' 13.18" W 89° 52' 46.06" to N 38° 43' 3.79" W 89° 56' 46.24"	
	VOR: VLA	Available from N 38° 46' 13.18" W 89° 52' 46.06" to N 38° 45' 20.97" W 89° 53' 51.96"	

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]: 290.0° to 354.0° Bearing [Mag]: 286.0° to 350.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		

DME/DME (Continued.)

Return To Summary

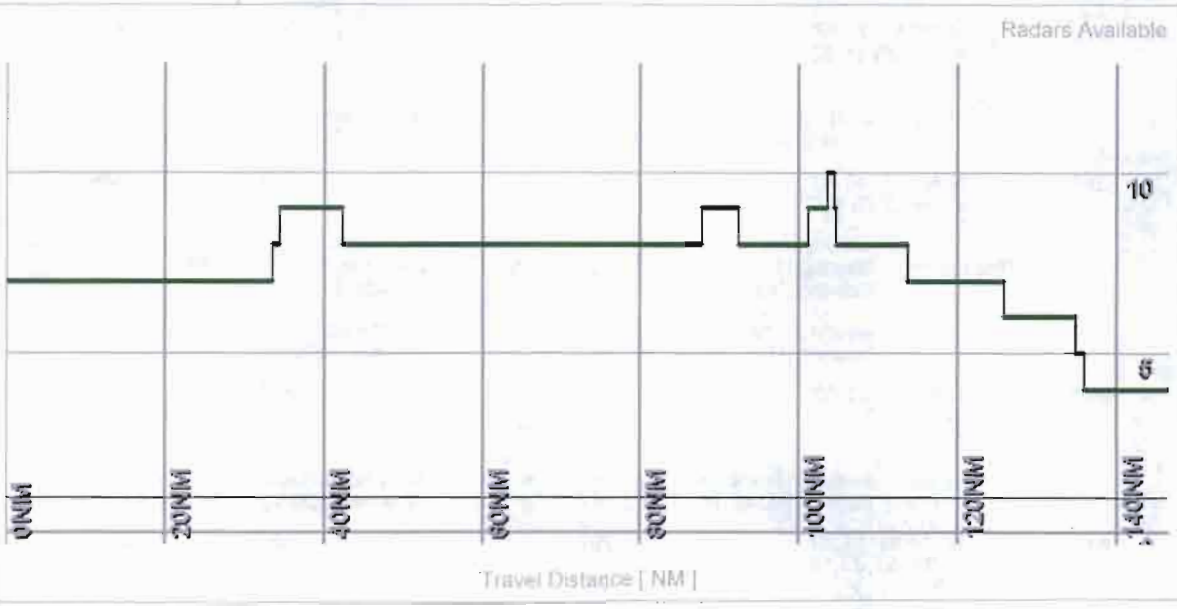
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV:	Bearing [True]: 74.0° to 126.0° Bearing [Mag]: 73.0° to 125.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
3	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H	826.6	113.50	OKK	Not Used
		Restriction:	Bearing [True]: 270.0° to 285.0° Bearing [Mag]: 270.0° to 285.0°		Distance: Beyond 0.0 NM Altitude: Below 6000.0 Ft.		
		ESV:	Bearing [True]: 192.0° to 215.0° Bearing [Mag]: 192.0° to 215.0°		Arc Distance: Out to 62.0 NM Altitude: 5000.0 to 17000.0 Ft.		
4	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H	750.0	115.10	BVT	Used
		ESV:	Bearing [True]: 183.0° to 225.0° Bearing [Mag]: 182.0° to 224.0°		Arc Distance: Out to 95.0 NM Altitude: 5500.0 to 17000.0 Ft.		
5	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV:	Bearing [True]: 95.0° to 125.0° Bearing [Mag]: 92.0° to 122.0°		Arc Distance: Out to 81.0 NM Altitude: 5000.0 to 18000.0 Ft.		
6	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L	534.6	109.00	BIB	Used
		ESV:	Bearing [True]: 30.0° to 55.0° Bearing [Mag]: 27.0° to 52.0°		Arc Distance: Out to 45.0 NM Altitude: 5000.0 to 17000.0 Ft.		
7	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L	744.7	110.00	CMI	Used
		ESV:	Bearing [True]: 125.0° to 160.0° Bearing [Mag]: 122.0° to 157.0°		Arc Distance: Out to 60.0 NM Altitude: 9000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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



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Procedure Name:	AARCH
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/6/2012 8:44:38 AM
Input File:	KSTL AARCH STAR RBS BUELL 20120606_0823.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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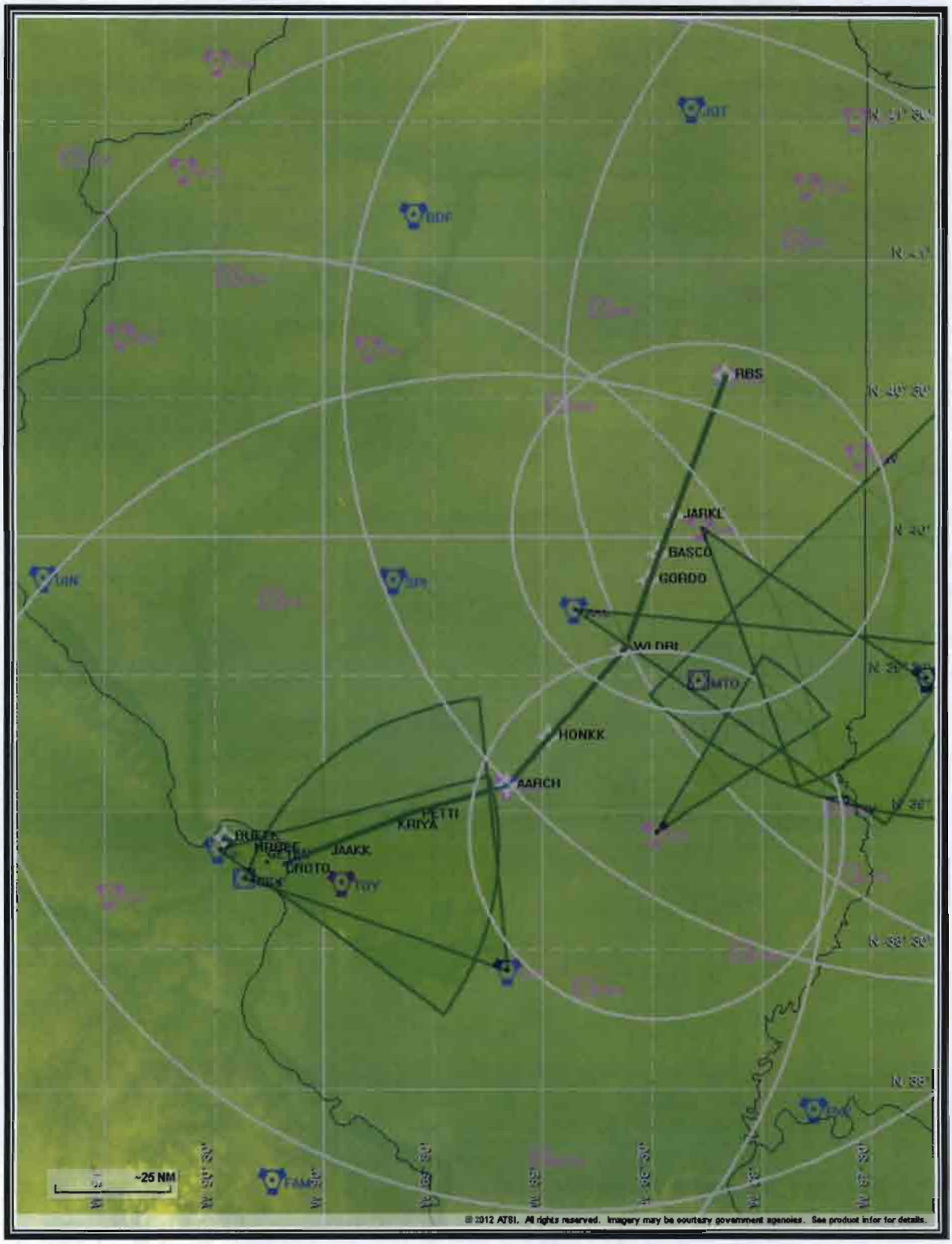
RBS
JARIKL
BASCO
GORDO
WI DRI
HONKK
AARCH
KRIYA
JAAKK
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RBS	WP	N 40° 34' 54.13" W 88° 9' 51.36"	18000.0	Step	280.0	Fly By	TF
JARKE	WP	N 40° 4' 47.06" W 88° 24' 4.36"	18000.0	Step	240.0	Fly By	TF
BASCO	WP	N 39° 56' 14.00" W 88° 28' 4.00"	18000.0	Step	240.0	Fly By	TF
GORDO	WP	N 39° 50' 30.37" W 88° 30' 43.31"	18000.0	Step	240.0	Fly By	TF
WLDBL	WP	N 39° 35' 32.77" W 88° 37' 39.20"	15000.0	Step	210.0	Fly By	TF
HONKK	WP	N 39° 16' 23.84" W 88° 58' 14.87"	15000.0	Step	280.0	Fly By	TF
AARCH	WP	N 39° 5' 37.00" W 89° 9' 45.00"	15000.0	Step	280.0	Fly By	TF
PETTI	WP	N 38° 59' 46.76" W 89° 35' 38.45"	7000.0	Step	180.0	Fly By	TF
KRIYA	WP	N 38° 57' 37.60" W 89° 42' 28.93"	4000.0	Step	280.0	Fly By	TF
JAAKK	WP	N 38° 51' 52.87" W 90° 0' 38.95"	4000.0	Step	180.0	Fly By	TF
CHOTO	WP	N 38° 47' 49.99" W 90° 13' 14.99"	4000.0	Step	180.0	Fly By	TF
GETEE	WP	N 38° 50' 5.83" W 90° 18' 10.92"	4000.0	Step	210.0	Fly By	TF
HRBEE	WP	N 38° 51' 41.27" W 90° 21' 39.73"	4000.0	Step	210.0	Fly By	TF
BUELL	WP	N 38° 54' 9.28" W 90° 27' 4.16"	4000.0	Step	210.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan
Entire track is fly-able	

DME/DME

Return To Summary

Settings:

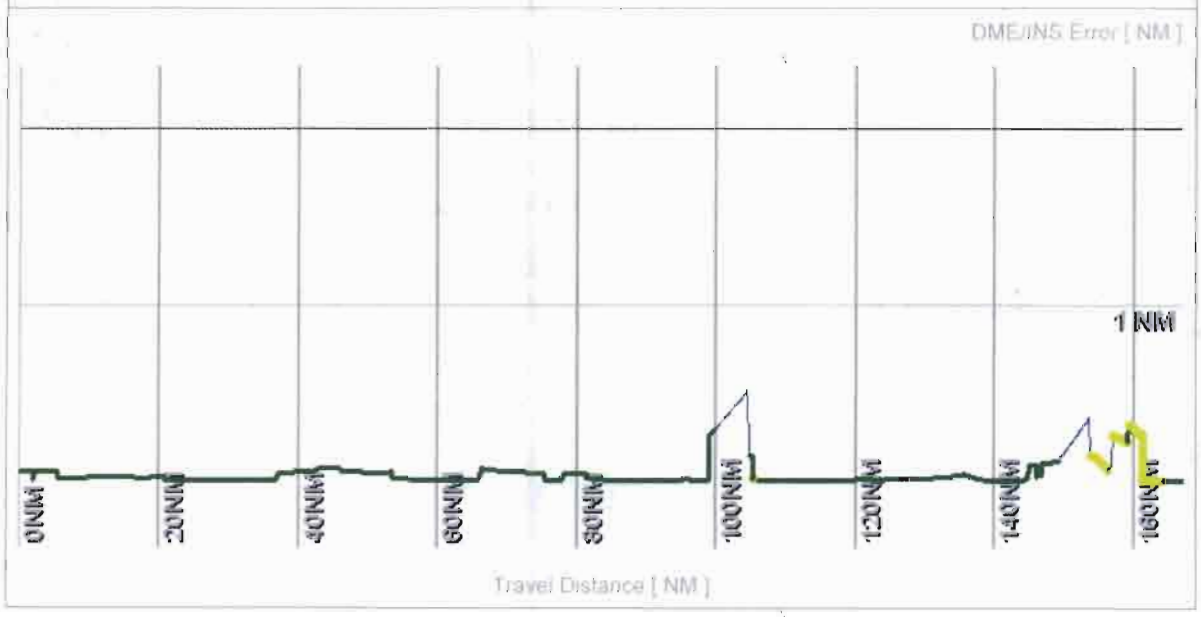
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 19

Maximum DME Error: 0.648 NM.

No Critical DMEs were found.

Available DMEs: BVT, AXC, CMI, BDF, BMI, DNV, IKK, JOT, OBK, OXI, PNT, SPI, TTH, VHP, RBS, MTO, ENL, STL, VLA, BIB, TOY, CSX, FTZ



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	OXI	N 41° 19' 19.35" W 86° 38' 57.45" E 0	H	Database	NO	0.648	Enabled	2.8 %	3.1 %
2	TTH	N 39° 29' 20.19" W 87° 14' 56.47" E 2	H	Database	NO	0.648	Enabled	9.5 %	10.5 %
3	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.648	Enabled	25.0 %	27.5 %
4	PNT	N 40° 49' 16.32" W 88° 44' 0.63" E 3	L	Database	NO	0.648	Enabled	0.1 %	0.1 %
5	BDF	N 41° 9' 35.03" W 89° 35' 16.34" E 0	H	Database	NO	0.648	Enabled	10.7 %	12.1 %
6	DNV	N 40° 17' 37.63" W 87° 33' 25.87" E 2	L	Database	NO	0.648	Enabled	2.2 %	2.5 %
7	JOT	N 41° 32' 47.10" W 88° 19' 6.28" E 2	H	Database	NO	0.648	Enabled	2.2 %	2.5 %
8	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H + ESV	User	NO	0.648	Enabled	2.7 %	3.0 %
9	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L + ESV	User	NO	0.661	Enabled	6.9 %	7.3 %
10	BMI	N 40° 28' 50.90" W 88° 55' 52.56" E 3	L	Database	NO	0.648	Enabled	4.5 %	5.1 %
11	MTO	N 39° 28' 40.42" W 88° 17' 10.44" E 3	L	Database	NO	0.648	Enabled	6.9 %	7.3 %
12	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	1.068	Enabled	30.1 %	27.6 %
13	SPI	N 39° 50' 23.04" W 89° 40' 39.83" W 1	H	Database	NO	0.648	Enabled	0.0 %	0.0 %
14	VLA	N 39° 5' 37.82" W 89° 9' 44.08" E 4	L	Database	NO	0.648	Enabled	21.4 %	20.9 %
15	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	0.752	Enabled	13.4 %	13.0 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L + ESV	User	NO	0.549	Enabled	15.1 %	15.8 %
17	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.679	Enabled	14.9 %	13.1 %
18	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.826	Enabled	13.9 %	12.1 %
19	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.849	Enabled	5.0 %	4.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	AXC	BDF	PNT	OXI	TTH	BMI
10.1	AXC	BDF	DNV	JOT	TTH	BVT
21.8	AXC	BVT	BMI	CMI	TTH	JOT
32.0	AXC	BDF	BMI	CMI	MTO	JOT
41.1	AXC	BDF	BVT	ENL	TTH	MTO
47.2	CMI	MTO	SPI	ENL	TTH	AXC
62.3	CMI	STL	VLA	BIB	AXC	MTO
72.5	MTO	STL	VLA	BIB	AXC	
87.9	MTO	STL	VLA	BIB	AXC	
101.1	TOY	STL	VLA	BIB	ENL	
111.2	TOY	CSX	VLA	ENL		
122.6	TOY	CSX	VLA	ENL	STL	
128.6	TOY	CSX	VLA	ENL	STL	
143.9	TOY	CSX	FTZ	ENL	STL	
153.7	TOY	CSX	FTZ	ENL	STL	
158.9	TOY	CSX	FTZ	ENL	STL	
162.1	TOY	CSX	FTZ	STL		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 7' 21.45" W 89° 7' 53.92"	N 39° 4' 52.92" W 89° 13' 1.42"	4.9
	VOR: AXC	Available from N 39° 7' 21.45" W 89° 7' 53.92" to N 39° 6' 35.21" W 89° 8' 43.12"	
	VOR: BIB	Available from N 39° 7' 21.45" W 89° 7' 53.92" to N 39° 4' 52.92" W 89° 13' 1.42"	
	VOR: VLA	Available from N 39° 7' 21.45" W 89° 7' 53.92" to N 39° 4' 52.92" W 89° 13' 1.42"	
	VOR: TOY	Available from N 39° 5' 13.89" W 89° 11' 27.60" to N 39° 4' 52.92" W 89° 13' 1.42"	
	VOR: ENL	Available from N 39° 5' 11.68" W 89° 11' 37.47" to N 39° 4' 52.92" W 89° 13' 1.42"	
2	N 38° 49' 54.74" W 90° 6' 47.53"	N 38° 48' 13.20" W 90° 12' 3.07"	4.4
	VOR: CSX	Available from N 38° 49' 54.74" W 90° 6' 47.53" to N 38° 48' 13.20" W 90° 12' 3.07"	
	VOR: STL	Available from N 38° 49' 54.74" W 90° 6' 47.53" to N 38° 48' 13.20" W 90° 12' 3.07"	
	VOR: TOY	Available from N 38° 49' 54.74" W 90° 6' 47.53" to N 38° 48' 13.20" W 90° 12' 3.07"	
	VOR: FTZ	Available from N 38° 49' 28.11" W 90° 8' 10.38" to N 38° 48' 13.20" W 90° 12' 3.07"	
3	N 38° 48' 44.78" W 90° 15' 14.92"	N 38° 49' 1.69" W 90° 15' 51.68"	0.6
	VOR: CSX	Available from N 38° 48' 44.78" W 90° 15' 14.92" to N 38° 49' 1.69" W 90° 15' 51.68"	
	VOR: FTZ	Available from N 38° 48' 44.78" W 90° 15' 14.92" to N 38° 49' 1.69" W 90° 15' 51.68"	
	VOR: STL	Available from N 38° 48' 44.78" W 90° 15' 14.92" to N 38° 49' 1.69" W 90° 15' 51.68"	
	VOR: TOY	Available from N 38° 48' 44.78" W 90° 15' 14.92" to N 38° 49' 1.69" W 90° 15' 51.68"	

DME/DME (Continued.)

Return To Summary

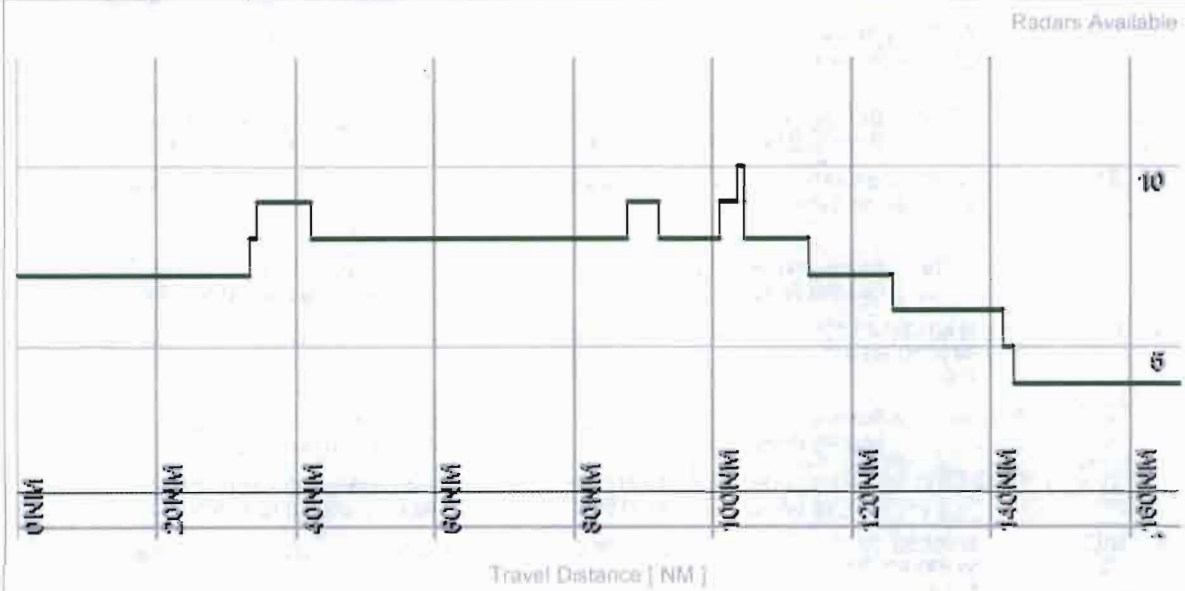
User DMEs

#	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	Used
		ESV:	Bearing [True]: 290.0° to 354.0° Bearing [Mag]: 286.0° to 350.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV:	Bearing [True]: 74.0° to 126.0° Bearing [Mag]: 73.0° to 125.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
3	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H	826.6	113.50	OKK	Not Used
		Restriction:	Bearing [True]: 270.0° to 285.0° Bearing [Mag]: 270.0° to 285.0°		Distance: Beyond 0.0 NM Altitude: Below 6000.0 Ft.		
		ESV:	Bearing [True]: 192.0° to 215.0° Bearing [Mag]: 192.0° to 215.0°		Arc Distance: Out to 62.0 NM Altitude: 5000.0 to 17000.0 Ft.		
4	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H	750.0	115.10	BVT	Used
		ESV:	Bearing [True]: 183.0° to 225.0° Bearing [Mag]: 182.0° to 224.0°		Arc Distance: Out to 95.0 NM Altitude: 5500.0 to 17000.0 Ft.		
5	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV:	Bearing [True]: 95.0° to 125.0° Bearing [Mag]: 92.0° to 122.0°		Arc Distance: Out to 81.0 NM Altitude: 5000.0 to 18000.0 Ft.		
6	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L	534.6	109.00	BIB	Used
		ESV:	Bearing [True]: 30.0° to 55.0° Bearing [Mag]: 27.0° to 52.0°		Arc Distance: Out to 45.0 NM Altitude: 5000.0 to 17000.0 Ft.		
7	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L	744.7	110.00	CMI	Used
		ESV:	Bearing [True]: 125.0° to 160.0° Bearing [Mag]: 122.0° to 157.0°		Arc Distance: Out to 60.0 NM Altitude: 9000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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



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Version:	2.36
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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	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms	?	
TERPS	?	

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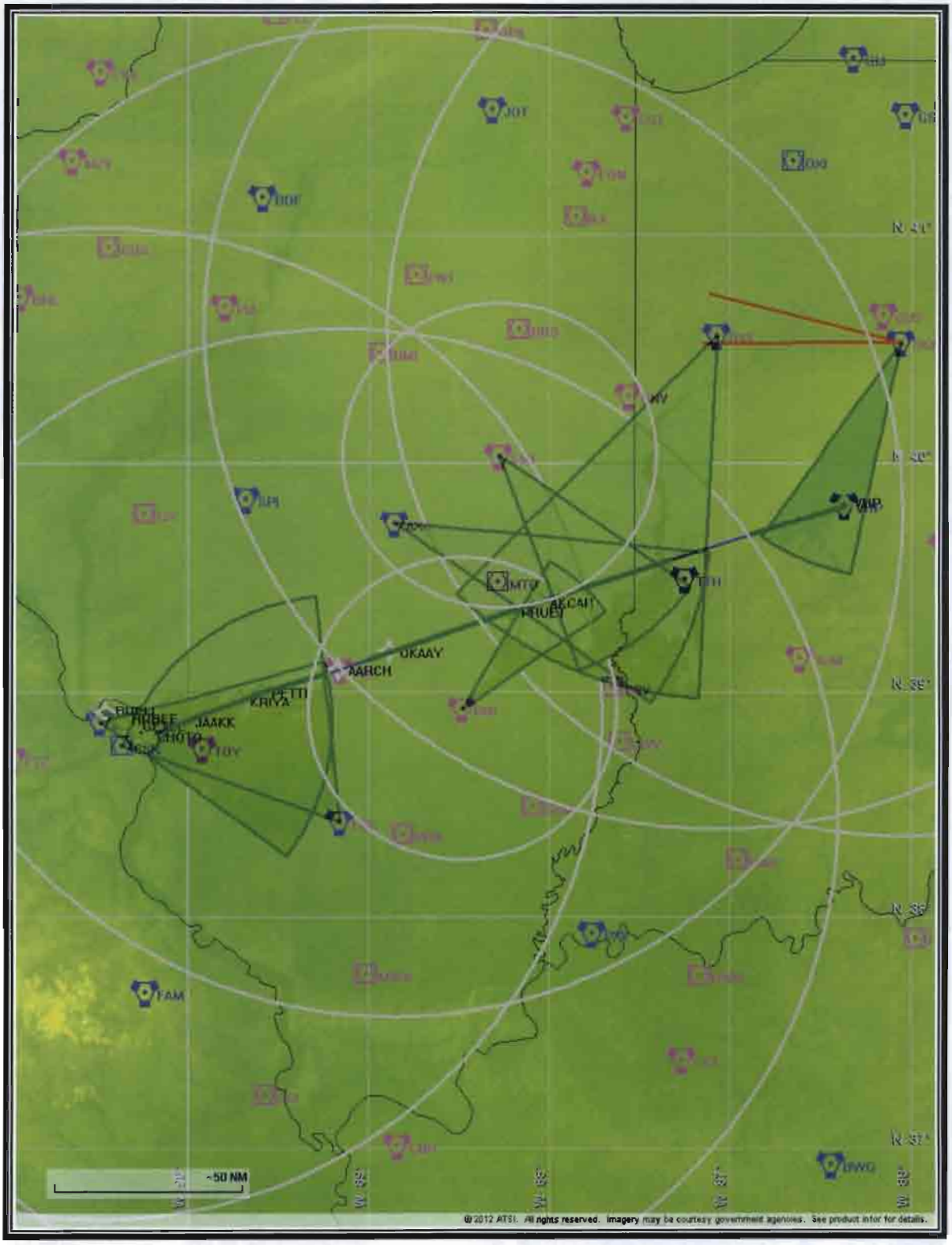
JOT
HV
VHP
MTU
HUEY
ALCAT
OKAAY
AARCH
KRIVA
JAAKK
TOY
FAM
BWG
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
VHP	WP	N 39° 48' 53.02" W 86° 22' 2.88"	15000.0	Step	280.0	Fly By	TF
AKBAR	WP	N 39° 23' 27.44" W 88° 2' 55.72"	15000.0	Step	210.0	Fly By	TF
PRUET	WP	N 39° 21' 2.00" W 88° 12' 40.00"	10000.0	Step	180.0	Fly By	TF
UKAAY	WP	N 39° 10' 15.70" W 88° 52' 46.51"	10000.0	Step	280.0	Fly By	TF
AARCH	WP	N 39° 5' 37.00" W 89° 9' 45.00"	10000.0	Step	280.0	Fly By	TF
PETTI	WP	N 38° 59' 46.76" W 89° 35' 38.45"	7000.0	Step	180.0	Fly By	TF
KRIYA	WP	N 38° 57' 37.60" W 89° 42' 28.93"	4000.0	Step	280.0	Fly By	TF
JAAKK	WP	N 38° 51' 52.87" W 90° 0' 38.95"	4000.0	Step	180.0	Fly By	TF
CHOTO	WP	N 38° 47' 49.99" W 90° 13' 14.99"	4000.0	Step	180.0	Fly By	TF
GETEE	WP	N 38° 50' 5.83" W 90° 18' 10.92"	4000.0	Step	210.0	Fly By	TF
HRBEE	WP	N 38° 51' 41.27" W 90° 21' 39.73"	4000.0	Step	210.0	Fly By	TF
BUELL	WP	N 38° 54' 9.28" W 90° 27' 4.16"	4000.0	Step	210.0	Fly Over	TF

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

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 16

Maximum DME Error: 0.751 NM

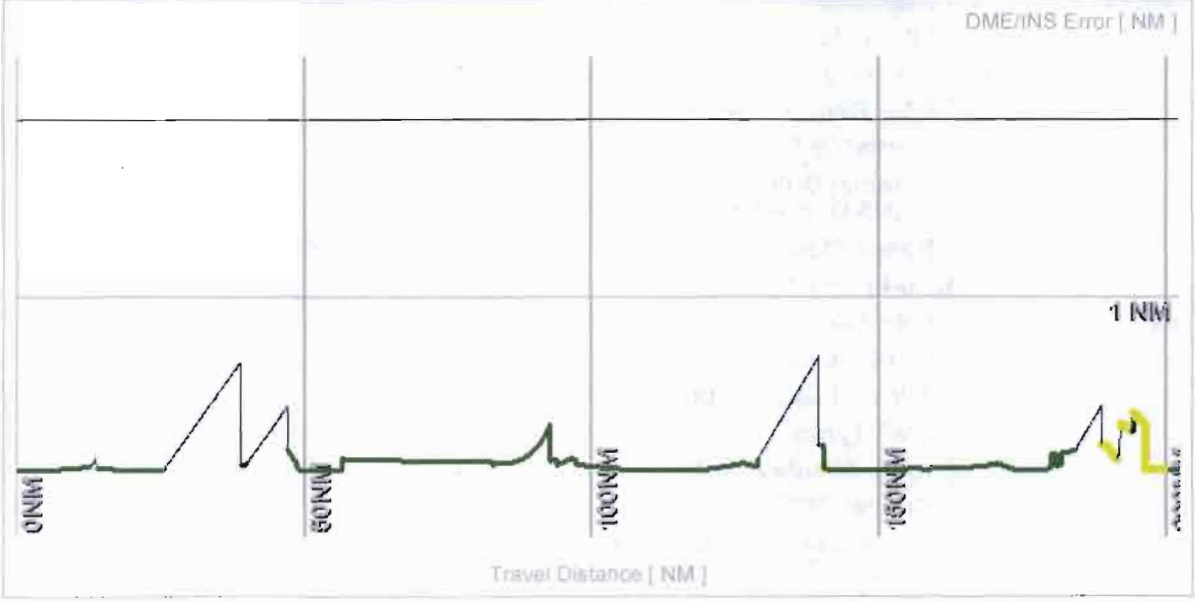
No Critical DMEs were found.

Available DMEs: OKK, SHB, VHP, TTH, OOM, BVT, AXC, MTO, CMI, PXV, BIB, VLA, TOY, ENL, CSX, STL, FTZ

Foreign DMEs within range: YQG

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H + ESV	User	NO	0.762	Enabled	5.7 %	6.3 %
2	SHB	N 39° 37' 57.15" W 85° 49' 27.54" E 1	L	Database	NO	1.014	Enabled	5.7 %	6.3 %
3	OOM	N 39° 8' 37.76" W 86° 36' 46.87" W 2	L	Database	NO	1.161	Enabled	5.2 %	5.8 %
4	VHP	N 39° 48' 53.02" W 86° 22' 2.88" E 1	H	Database	NO	1.007	Enabled	5.7 %	6.3 %
5	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H + ESV	User	NO	1.317	Enabled	10.1 %	10.9 %
6	TTH	N 39° 29' 20.19" W 87° 14' 56.47" E 2	H	Database	NO	0.751	Enabled	11.6 %	12.8 %
7	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.751	Enabled	15.1 %	14.5 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56" E 3	H	Database	NO	0.751	Enabled	11.6 %	12.9 %
9	MTO	N 39° 28' 40.42" W 88° 17' 10.44" E 3	L	Database	NO	0.727	Enabled	13.1 %	13.1 %
10	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L + ESV	User	NO	0.792	Enabled	9.8 %	9.1 %
11	VLA	N 39° 5' 37.82" W 89° 9' 44.08" E 4	L	Database	NO	0.751	Enabled	18.7 %	17.3 %
12	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.789	Enabled	11.7 %	10.8 %
13	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	1.092	Enabled	20.7 %	19.1 %
14	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.826	Enabled	10.8 %	10.0 %
15	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	0.752	Enabled	4.5 %	4.2 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.849	Enabled	3.9 %	3.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	TTH	SHB	VHP	OKK	OOM	
29.6	TTH	BVT	VHP			
39.8	TTH	BVT	AXC	PXV	MTO	CMI
81.9	TTH	BVT	AXC	PXV	MTO	BIB
89.9	VLA	BVT	AXC	BIB	MTO	
122.9	VLA	MTO	AXC	BIB		
136.7	VLA	TOY	ENL	BIB	CSX	
157.6	VLA	TOY	ENL	STL	CSX	
163.6	VLA	TOY	ENL	STL	CSX	
178.9	FTZ	TOY	ENL	STL	CSX	
188.7	FTZ	TOY	ENL	STL	CSX	
193.9	FTZ	TOY	ENL	STL	CSX	
197.1	FTZ	TOY	CSX	STL		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 45' 2.04" W 86° 37' 47.81"	N 39° 44' 45.01" W 86° 38' 56.98"	0.9
VOR: OOM	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"		
VOR: SHB	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"		
VOR: TTH	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"		
VOR: VHP	Available from N 39° 45' 2.04" W 86° 37' 47.81" to N 39° 44' 45.01" W 86° 38' 56.98"		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 39° 41' 9.98" W 86° 53' 25.91"	N 39° 37' 4.69" W 87° 9' 46.44"	13.3
	VOR: OOM	Available from N 39° 41' 9.98" W 86° 53' 25.91" to N 39° 37' 4.69" W 87° 9' 46.44"	
	VOR: TTH	Available from N 39° 41' 9.98" W 86° 53' 25.91" to N 39° 37' 4.69" W 87° 9' 46.44"	
	VOR: VHP	Available from N 39° 41' 9.98" W 86° 53' 25.91" to N 39° 37' 4.69" W 87° 9' 46.44"	
3	N 39° 36' 43.63" W 87° 11' 10.11"	N 39° 34' 30.68" W 87° 19' 56.44"	7.1
	VOR: OOM	Available from N 39° 36' 43.63" W 87° 11' 10.11" to N 39° 35' 52.77" W 87° 14' 31.86"	
	VOR: TTH	Available from N 39° 36' 43.63" W 87° 11' 10.11" to N 39° 34' 30.68" W 87° 19' 56.44"	
	VOR: VHP	Available from N 39° 36' 43.63" W 87° 11' 10.11" to N 39° 36' 41.15" W 87° 11' 19.95"	
	VOR: RSV	Available from N 39° 36' 1.46" W 87° 13' 57.42" to N 39° 34' 30.68" W 87° 19' 56.44"	
4	N 39° 8' 17.42" W 89° 0' 0.24"	N 39° 4' 53.28" W 89° 12' 59.32"	10.7
	VOR: AXC	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 6' 14.50" W 89° 7' 28.71"	
	VOR: BIB	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 4' 53.28" W 89° 12' 59.32"	
	VOR: MTO	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 7' 57.53" W 89° 1' 13.00"	
	VOR: VLA	Available from N 39° 8' 17.42" W 89° 0' 0.24" to N 39° 4' 53.28" W 89° 12' 59.32"	
	VOR: TOY	Available from N 39° 5' 14.41" W 89° 11' 24.67" to N 39° 4' 53.28" W 89° 12' 59.32"	
	VOR: ENL	Available from N 39° 5' 11.66" W 89° 11' 37.02" to N 39° 4' 53.28" W 89° 12' 59.32"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
5	N 38° 49' 54.69" W 90° 6' 47.69"	N 38° 48' 13.14" W 90° 12' 3.23"	4.4
	VOR: CSX	Available from N 38° 49' 54.69" W 90° 6' 47.69" to N 38° 48' 13.14" W 90° 12' 3.23"	
	VOR: STL	Available from N 38° 49' 54.69" W 90° 6' 47.69" to N 38° 48' 13.14" W 90° 12' 3.23"	
	VOR: TOY	Available from N 38° 49' 54.69" W 90° 6' 47.69" to N 38° 48' 13.14" W 90° 12' 3.23"	
	VOR: FTZ	Available from N 38° 49' 28.06" W 90° 8' 10.55" to N 38° 48' 13.14" W 90° 12' 3.23"	
6	N 38° 48' 44.87" W 90° 15' 15.07"	N 38° 49' 1.78" W 90° 15' 51.83"	0.6
	VOR: CSX	Available from N 38° 48' 44.87" W 90° 15' 15.07" to N 38° 49' 1.78" W 90° 15' 51.83"	
	VOR: FTZ	Available from N 38° 48' 44.87" W 90° 15' 15.07" to N 38° 49' 1.78" W 90° 15' 51.83"	
	VOR: STL	Available from N 38° 48' 44.87" W 90° 15' 15.07" to N 38° 49' 1.78" W 90° 15' 51.83"	
	VOR: TOY	Available from N 38° 48' 44.87" W 90° 15' 15.07" to N 38° 49' 1.78" W 90° 15' 51.83"	

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]: 290.0° to 354.0° Bearing [Mag]: 286.0° to 350.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV:	Bearing [True]: 74.0° to 126.0° Bearing [Mag]: 73.0° to 125.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		

DME/DME (Continued.)

Return To Summary

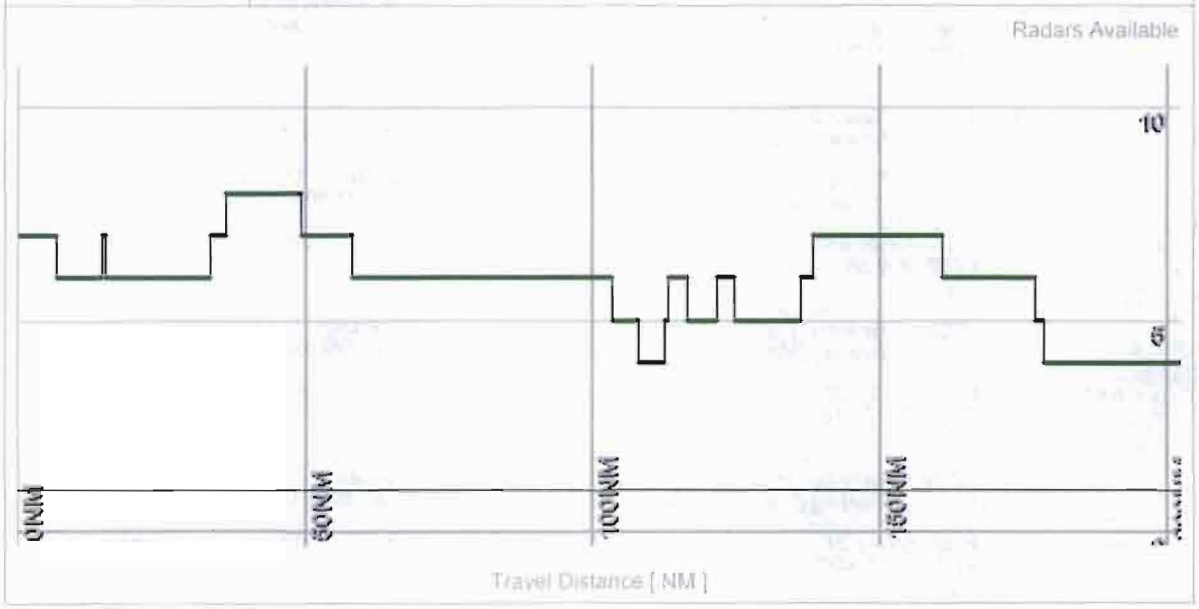
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
3	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H	826.6	113.50	OKK	Used
		Restriction:	Bearing [True]: 270.0° to 285.0° Bearing [Mag]: 270.0° to 285.0°		Distance: Beyond 0.0 NM Altitude: Below 6000.0 Ft.		
		ESV:	Bearing [True]: 192.0° to 215.0° Bearing [Mag]: 192.0° to 215.0°		Arc Distance: Out to 62.0 NM Altitude: 5000.0 to 17000.0 Ft.		
4	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H	750.0	115.10	BVT	Used
		ESV:	Bearing [True]: 183.0° to 225.0° Bearing [Mag]: 182.0° to 224.0°		Arc Distance: Out to 95.0 NM Altitude: 5500.0 to 17000.0 Ft.		
5	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV:	Bearing [True]: 95.0° to 125.0° Bearing [Mag]: 92.0° to 122.0°		Arc Distance: Out to 81.0 NM Altitude: 5000.0 to 18000.0 Ft.		
6	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L	534.6	109.00	BIB	Used
		ESV:	Bearing [True]: 30.0° to 55.0° Bearing [Mag]: 27.0° to 52.0°		Arc Distance: Out to 45.0 NM Altitude: 5000.0 to 17000.0 Ft.		
7	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L	744.7	110.00	CMI	Not Used
		ESV:	Bearing [True]: 125.0° to 160.0° Bearing [Mag]: 122.0° to 157.0°		Arc Distance: Out to 60.0 NM Altitude: 9000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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



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Project Name:	
Output File:	AARCH STAR AKBAR FDRKO 20120606_1406
Procedure Name:	AARCH
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/6/2012 2:06:54 PM
Input File:	KSTL AARCH STAR AKBAR FDRKO 20120606_1355.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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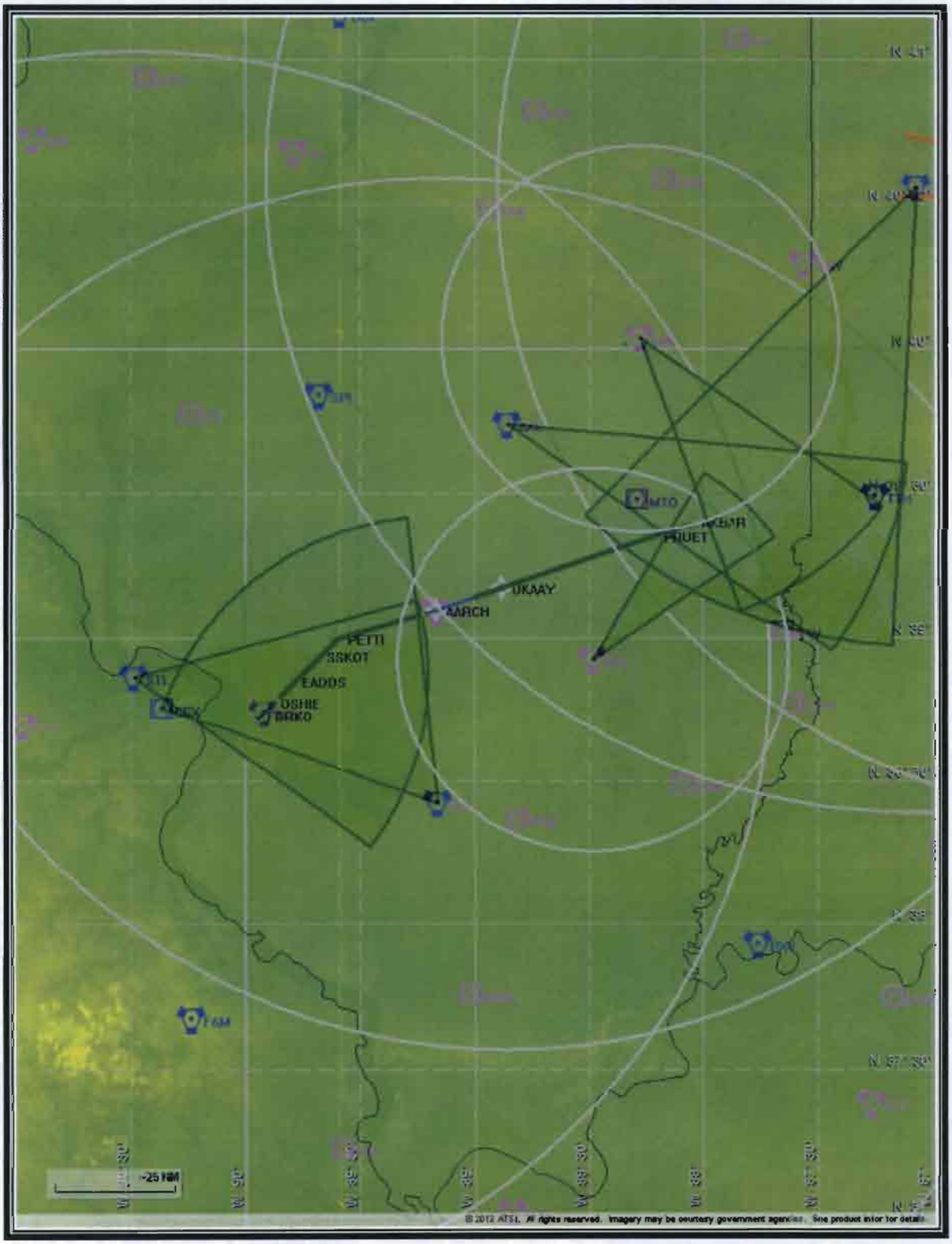

UKAAY
AARCH
PETTI
SSKOT
EADDS
USHIE
BRKO
FRUET
MTO
25 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
AKBAR	WP	N 39° 23' 27.44" W 88° 2' 55.72"	10000.0	Step	200.0	Fly By	TF
PRUET	WP	N 39° 21' 2.00" W 88° 12' 40.00"	10000.0	Step	180.0	Fly By	TF
UKAAY	WP	N 39° 10' 15.70" W 88° 52' 46.51"	10000.0	Step	280.0	Fly By	TF
AARCH	WP	N 39° 5' 37.00" W 89° 9' 45.00"	10000.0	Step	180.0	Fly By	TF
PETTI	WP	N 38° 59' 46.76" W 89° 35' 38.45"	7000.0	Step	180.0	Fly By	TF
SSKOT	WP	N 38° 55' 23.02" W 89° 41' 12.14"	4000.0	Step	180.0	Fly By	TF
EADDS	WP	N 38° 50' 5.42" W 89° 47' 53.39"	4000.0	Step	180.0	Fly By	TF
OSHIE	WP	N 38° 45' 46.47" W 89° 53' 19.66"	4000.0	Step	250.0	Fly By	TF
FDRKO	WP	N 38° 43' 1.78" W 89° 56' 48.80"	4000.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan
Entire track is fly-able	

DME/DME

Return To Summary

Settings:

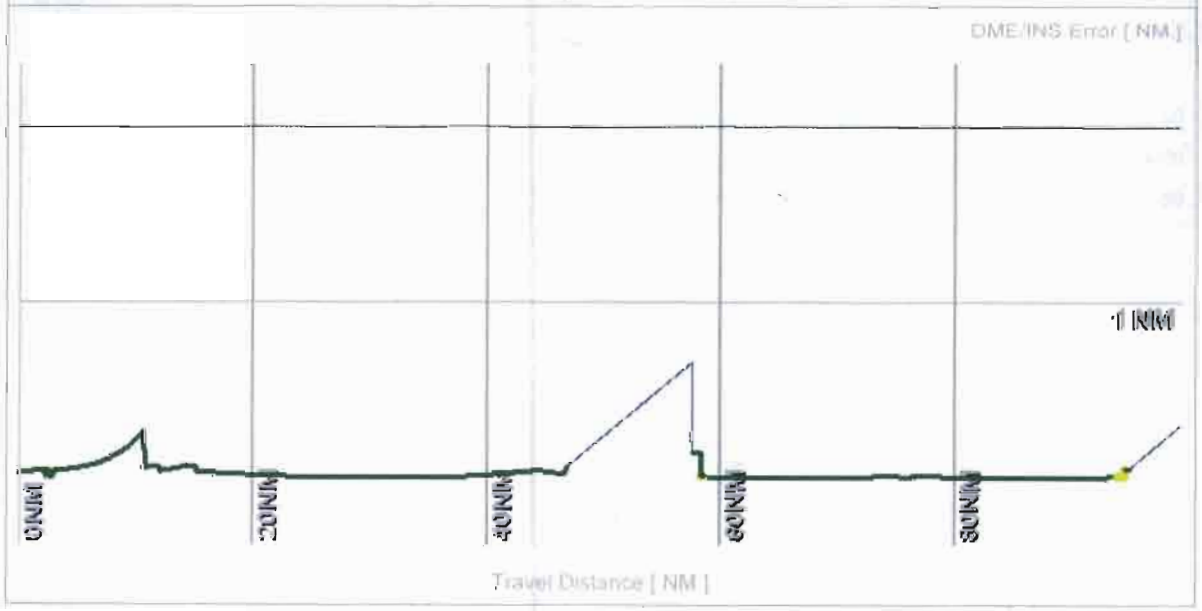
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 8

Maximum DME Error: 0.751 NM.

No Critical DMEs were found.

Available DMEs: BVT, AXC, BIB, MTO, TTH, VLA, TOY, ENL, CSX, STL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H + ESV	User	NO	0.751	Enabled	11.6 %	11.6 %
2	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.751	Enabled	25.4 %	25.4 %
3	MTO	N 39° 28' 40.42" W 88° 17' 10.44" E 3	L	Database	NO	0.727	Enabled	21.3 %	21.4 %
4	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L + ESV	User	NO	0.792	Enabled	18.9 %	18.9 %
5	VLA	N 39° 5' 37.82" W 89° 9' 44.08" E 4	L	Database	NO	0.751	Enabled	35.0 %	35.0 %
6	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.789	Enabled	18.1 %	18.1 %
7	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	1.695	Enabled	36.8 %	36.8 %
8	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.751	Enabled	2.1 %	2.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	AXC	BVT	BIB	MTO	TTH	
7.9	AXC	BVT	BIB	MTO	VLA	
40.9	AXC	VLA	BIB	MTO		
54.7	ENL	VLA	BIB	TOY		
75.3	ENL	VLA	CSX	TOY	STL	
82.0	ENL	VLA	STL	TOY		
89.4	ENL	VLA	STL	TOY		
95.5	ENL	CSX	STL			

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 8' 17.64" W 88° 59' 59.41"	N 39° 4' 53.47" W 89° 12' 58.49"	10.7
	VOR: AXC	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 6' 13.61" W 89° 7' 31.93"	
	VOR: BIB	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 4' 53.47" W 89° 12' 58.49"	
	VOR: MTO	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 7' 57.75" W 89° 1' 12.17"	
	VOR: VLA	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 4' 53.47" W 89° 12' 58.49"	
	VOR: TOY	Available from N 39° 5' 13.68" W 89° 11' 27.95" to N 39° 4' 53.47" W 89° 12' 58.49"	
	VOR: ENL	Available from N 39° 5' 11.84" W 89° 11' 36.18" to N 39° 4' 53.47" W 89° 12' 58.49"	
2	N 38° 46' 13.62" W 89° 52' 45.51"	N 38° 43' 1.86" W 89° 56' 48.69"	4.5
	VOR: CSX	Available from N 38° 46' 13.62" W 89° 52' 45.51" to N 38° 43' 1.86" W 89° 56' 48.69"	
	VOR: ENL	Available from N 38° 46' 13.62" W 89° 52' 45.51" to N 38° 45' 49.85" W 89° 53' 15.41"	
	VOR: STL	Available from N 38° 46' 13.62" W 89° 52' 45.51" to N 38° 43' 1.86" W 89° 56' 48.69"	
	VOR: TOY	Available from N 38° 46' 13.62" W 89° 52' 45.51" to N 38° 43' 1.86" W 89° 56' 48.69"	
	VOR: VLA	Available from N 38° 46' 13.62" W 89° 52' 45.51" to N 38° 45' 21.40" W 89° 53' 51.40"	

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]: 290.0° to 354.0° Bearing [Mag]: 286.0° to 350.0°			Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		

DME/DME (Continued.)

Return To Summary

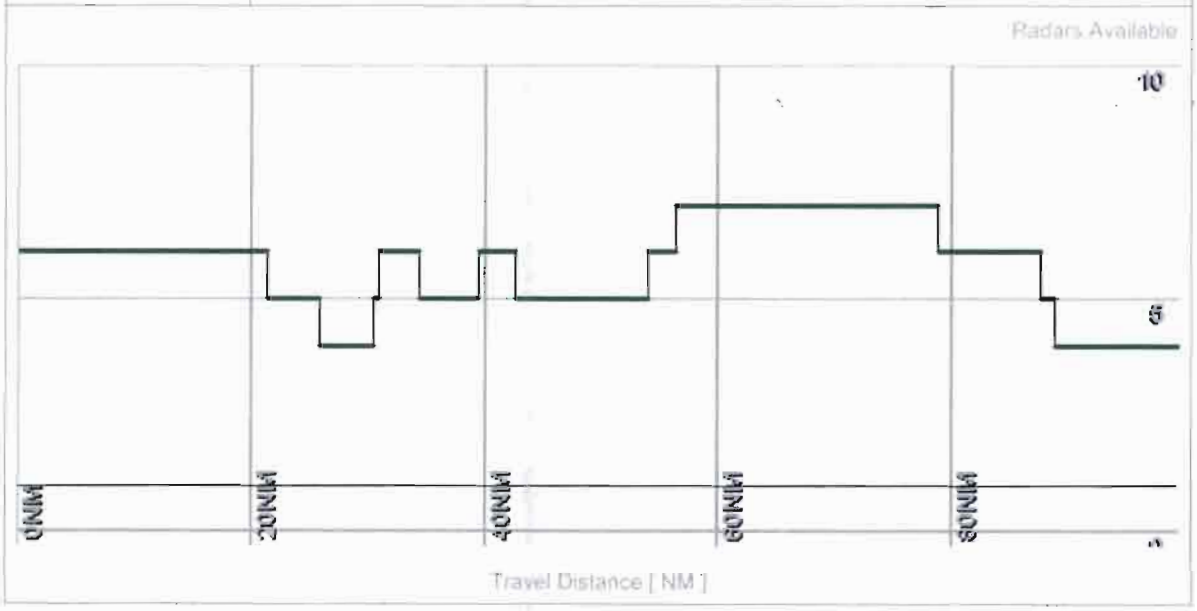
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Not Used
		ESV:	Bearing [True]: 74.0° to 126.0° Bearing [Mag]: 73.0° to 125.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
3	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H	826.6	113.50	OKK	Not Used
		Restriction:	Bearing [True]: 270.0° to 285.0° Bearing [Mag]: 270.0° to 285.0°		Distance: Beyond 0.0 NM Altitude: Below 6000.0 Ft.		
		ESV:	Bearing [True]: 192.0° to 215.0° Bearing [Mag]: 192.0° to 215.0°		Arc Distance: Out to 62.0 NM Altitude: 5000.0 to 17000.0 Ft.		
4	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H	750.0	115.10	BVT	Used
		ESV:	Bearing [True]: 183.0° to 225.0° Bearing [Mag]: 182.0° to 224.0°		Arc Distance: Out to 95.0 NM Altitude: 5500.0 to 17000.0 Ft.		
5	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV:	Bearing [True]: 95.0° to 125.0° Bearing [Mag]: 92.0° to 122.0°		Arc Distance: Out to 81.0 NM Altitude: 5000.0 to 18000.0 Ft.		
6	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L	534.6	109.00	BIB	Used
		ESV:	Bearing [True]: 30.0° to 55.0° Bearing [Mag]: 27.0° to 52.0°		Arc Distance: Out to 45.0 NM Altitude: 5000.0 to 17000.0 Ft.		
7	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L	744.7	110.00	CMI	Not Used
		ESV:	Bearing [True]: 125.0° to 160.0° Bearing [Mag]: 122.0° to 157.0°		Arc Distance: Out to 60.0 NM Altitude: 9000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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



Name:	enanders
Project Name:	
Output File:	AARCH STAR AKBAR BUELL 20120606_1354
Procedure Name:	AARCH
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/6/2012 1:54:53 PM
Input File:	KSTL AARCH STAR AKBAR BUELL 20120606_1342.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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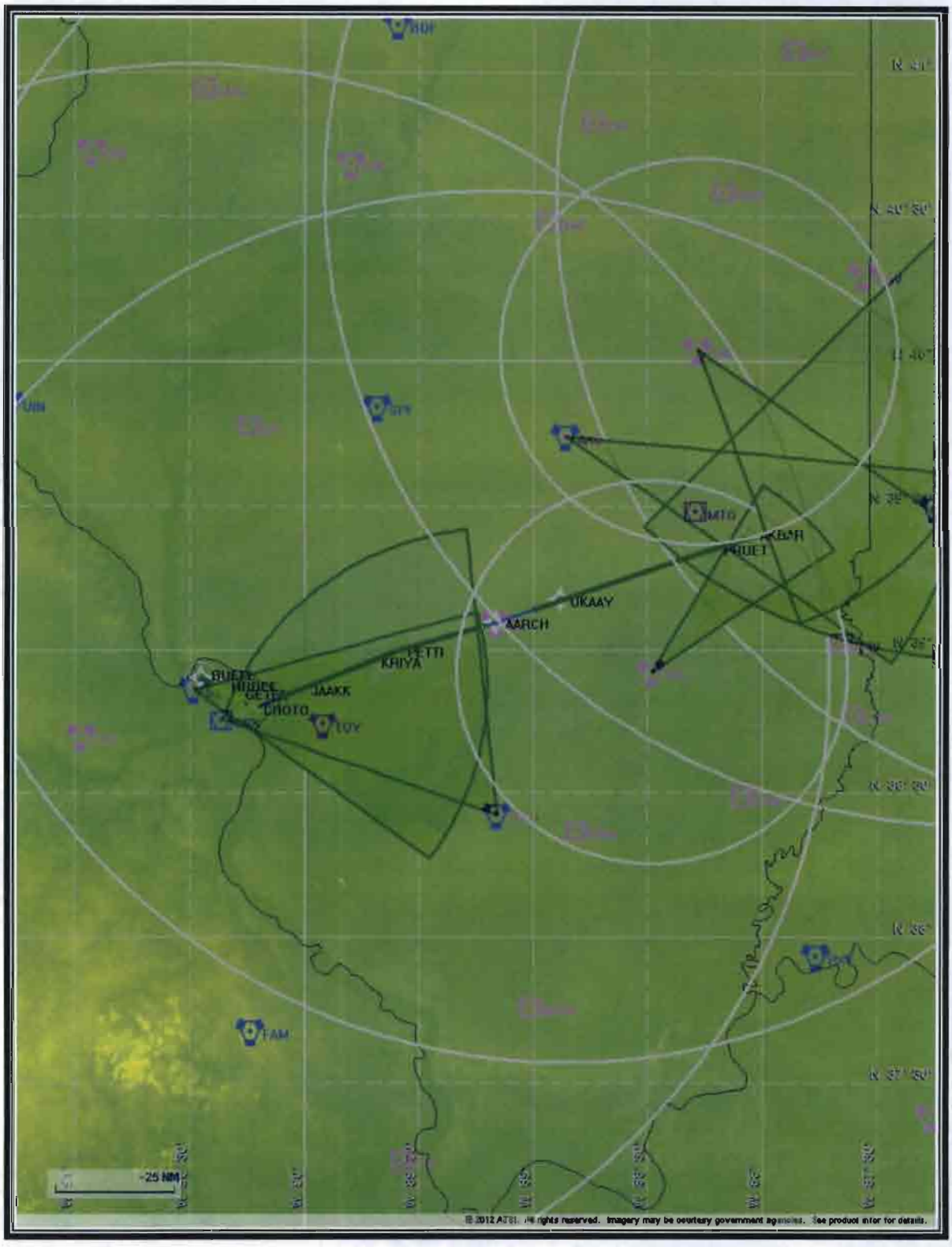

UKAAY
AARCH
KRIYA
JAAKK
25 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
AKBAR	WP	N 39° 23' 27.44" W 88° 2' 55.72"	10000.0	Step	200.0	Fly By	TF
PRUET	WP	N 39° 21' 2.00" W 88° 12' 40.00"	10000.0	Step	180.0	Fly By	TF
UKAAY	WP	N 39° 10' 15.70" W 88° 52' 46.51"	10000.0	Step	280.0	Fly By	TF
AARCH	WP	N 39° 5' 37.00" W 89° 9' 45.00"	10000.0	Step	180.0	Fly By	TF
PETTI	WP	N 38° 59' 46.76" W 89° 35' 38.45"	7000.0	Step	180.0	Fly By	TF
KRIYA	WP	N 38° 57' 37.60" W 89° 42' 28.93"	4000.0	Step	280.0	Fly By	TF
JAAKK	WP	N 38° 51' 52.87" W 90° 0' 38.95"	4000.0	Step	180.0	Fly By	TF
CHOTO	WP	N 38° 47' 49.99" W 90° 13' 14.99"	4000.0	Step	180.0	Fly By	TF
GETEE	WP	N 38° 50' 5.83" W 90° 18' 10.92"	4000.0	Step	210.0	Fly By	TF
HRBEE	WP	N 38° 51' 41.27" W 90° 21' 39.73"	4000.0	Step	210.0	Fly By	TF
BUELL	WP	N 38° 54' 9.28" W 90° 27' 4.16"	4000.0	Step	210.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan
Entire track is fly-able	

DME/DME

Return To Summary

Settings:

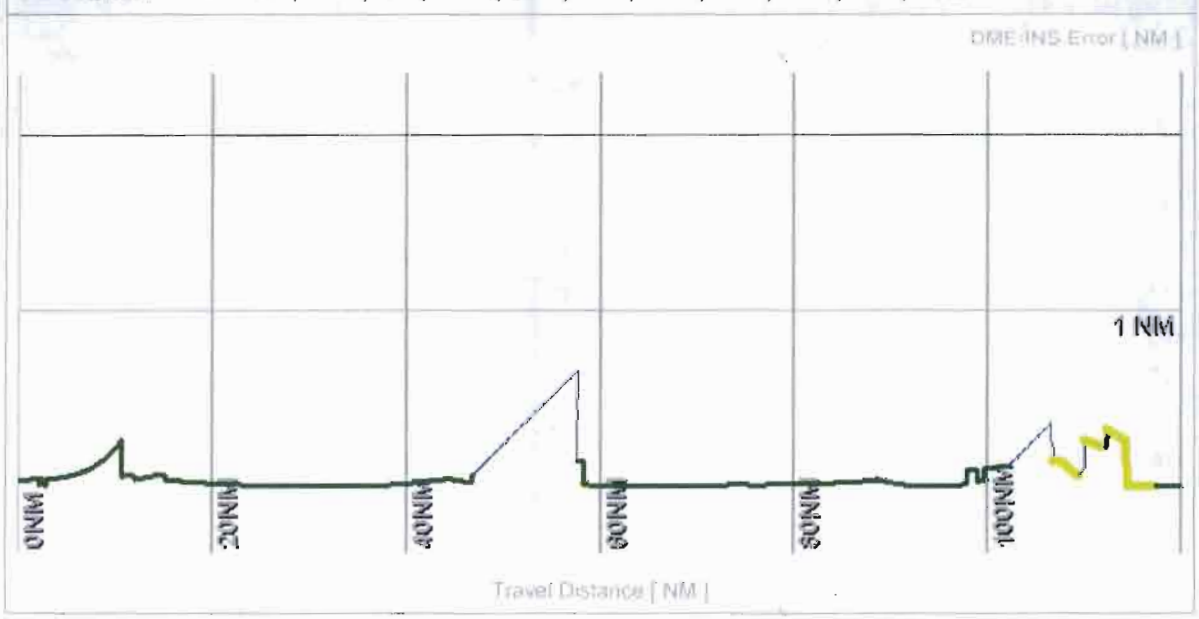
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 10

Maximum DME Error: 0.751 NM.

No Critical DMEs were found.

Available DMEs: BVT, AXC, BIB, MTO, TTH, VLA, TOY, ENL, CSX, STL, FTZ



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H + ESV	User	NO	0.751	Enabled	9.6 %	9.6 %
2	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H + ESV	User	NO	0.751	Enabled	21.1 %	21.0 %
3	MTO	N 39° 28' 40.42" W 88° 17' 10.44" E 3	L	Database	NO	0.727	Enabled	17.7 %	17.7 %
4	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L + ESV	User	NO	0.792	Enabled	15.7 %	15.7 %
5	VLA	N 39° 5' 37.82" W 89° 9' 44.08" E 4	L	Database	NO	0.751	Enabled	29.1 %	29.1 %
6	TOY	N 38° 44' 20.97" W 89° 55' 7.06" E 4	L	Database	NO	0.789	Enabled	18.2 %	18.2 %
7	ENL	N 38° 25' 12.00" W 89° 9' 32.39" E 4	H + ESV	User	NO	1.092	Enabled	32.3 %	32.3 %
8	CSX	N 38° 45' 9.88" W 90° 21' 39.46" E 0	H	Database	NO	0.826	Enabled	16.9 %	16.9 %
9	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H + ESV	User	NO	0.752	Enabled	7.1 %	7.1 %
10	FTZ	N 38° 41' 39.58" W 90° 58' 16.17" E 5	L	Database	NO	0.847	Enabled	6.0 %	6.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	AXC	BVT	BIB	MTO	TTH	
7.9	AXC	BVT	BIB	MTO	VLA	
40.9	AXC	VLA	BIB	MTO		
54.7	TOY	VLA	BIB	ENL	CSX	
75.6	TOY	VLA	STL	ENL	CSX	
81.6	TOY	VLA	STL	ENL	CSX	
96.9	TOY	FTZ	STL	ENL	CSX	
106.8	TOY	FTZ	STL	ENL	CSX	
111.9	TOY	FTZ	STL	ENL	CSX	
115.1	TOY	FTZ	STL	CSX		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 8' 17.64" W 88° 59' 59.41"	N 39° 4' 53.47" W 89° 12' 58.49"	10.7
	VOR: AXC	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 6' 13.61" W 89° 7' 31.93"	
	VOR: BIB	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 4' 53.47" W 89° 12' 58.49"	
	VOR: MTO	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 7' 57.75" W 89° 1' 12.17"	
	VOR: VLA	Available from N 39° 8' 17.64" W 88° 59' 59.41" to N 39° 4' 53.47" W 89° 12' 58.49"	
	VOR: TOY	Available from N 39° 5' 13.68" W 89° 11' 27.95" to N 39° 4' 53.47" W 89° 12' 58.49"	
	VOR: ENL	Available from N 39° 5' 11.84" W 89° 11' 36.18" to N 39° 4' 53.47" W 89° 12' 58.49"	
2	N 38° 49' 53.71" W 90° 6' 50.74"	N 38° 48' 13.43" W 90° 12' 2.33"	4.4
	VOR: CSX	Available from N 38° 49' 53.71" W 90° 6' 50.74" to N 38° 48' 13.43" W 90° 12' 2.33"	
	VOR: STL	Available from N 38° 49' 53.71" W 90° 6' 50.74" to N 38° 48' 13.43" W 90° 12' 2.33"	
	VOR: TOY	Available from N 38° 49' 53.71" W 90° 6' 50.74" to N 38° 48' 13.43" W 90° 12' 2.33"	
	VOR: FTZ	Available from N 38° 49' 28.35" W 90° 8' 9.64" to N 38° 48' 13.43" W 90° 12' 2.33"	
3	N 38° 48' 44.49" W 90° 15' 14.23"	N 38° 49' 1.41" W 90° 15' 50.99"	0.6
	VOR: CSX	Available from N 38° 48' 44.49" W 90° 15' 14.23" to N 38° 49' 1.41" W 90° 15' 50.99"	
	VOR: FTZ	Available from N 38° 48' 44.49" W 90° 15' 14.23" to N 38° 49' 1.41" W 90° 15' 50.99"	
	VOR: STL	Available from N 38° 48' 44.49" W 90° 15' 14.23" to N 38° 49' 1.41" W 90° 15' 50.99"	
	VOR: TOY	Available from N 38° 48' 44.49" W 90° 15' 14.23" to N 38° 49' 1.41" W 90° 15' 50.99"	

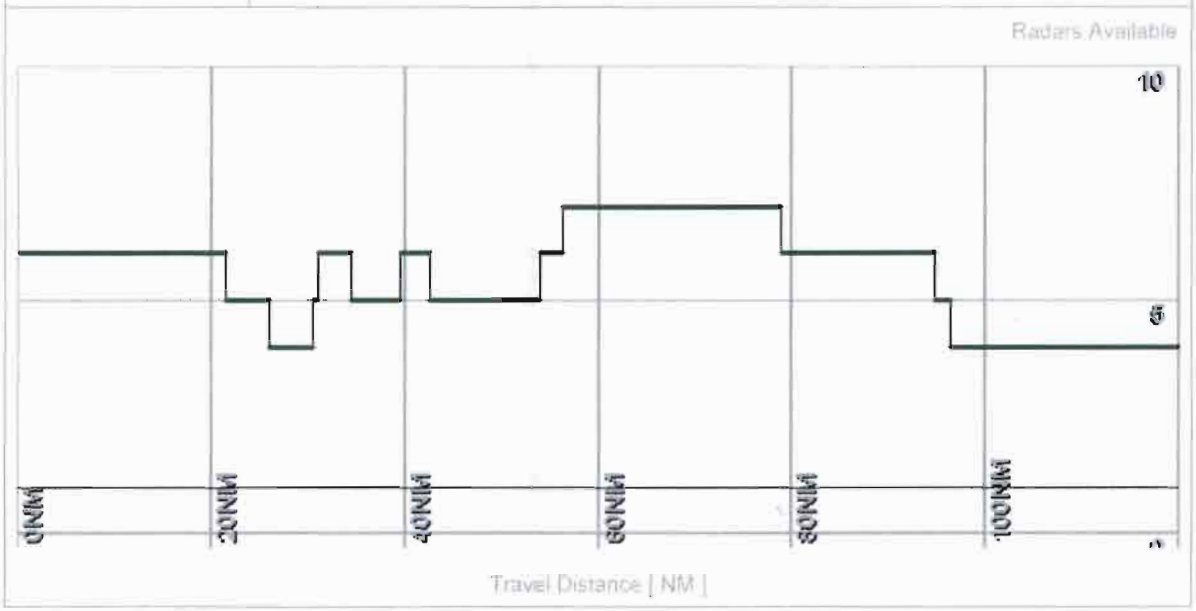
DME/DME (Continued.)

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	Used
		ESV:	Bearing [True]: 290.0° to 354.0° Bearing [Mag]: 286.0° to 350.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52" E 1	H	449.5	117.40	STL	Used
		ESV:	Bearing [True]: 74.0° to 126.0° Bearing [Mag]: 73.0° to 125.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 14500.0 Ft.		
3	OKK	N 40° 31' 40.00" W 86° 3' 28.81" E 0	H	826.6	113.50	OKK	Not Used
		Restriction:	Bearing [True]: 270.0° to 285.0° Bearing [Mag]: 270.0° to 285.0°		Distance: Beyond 0.0 NM Altitude: Below 6000.0 Ft.		
		ESV:	Bearing [True]: 192.0° to 215.0° Bearing [Mag]: 192.0° to 215.0°		Arc Distance: Out to 62.0 NM Altitude: 5000.0 to 17000.0 Ft.		
4	BVT	N 40° 33' 22.03" W 87° 4' 9.55" E 1	H	750.0	115.10	BVT	Used
		ESV:	Bearing [True]: 183.0° to 225.0° Bearing [Mag]: 182.0° to 224.0°		Arc Distance: Out to 95.0 NM Altitude: 5500.0 to 17000.0 Ft.		
5	AXC	N 39° 44' 15.08" W 88° 51' 23.15" E 3	H	707.5	117.20	AXC	Used
		ESV:	Bearing [True]: 95.0° to 125.0° Bearing [Mag]: 92.0° to 122.0°		Arc Distance: Out to 81.0 NM Altitude: 5000.0 to 18000.0 Ft.		
6	BIB	N 38° 55' 13.24" W 88° 28' 54.50" E 3	L	534.6	109.00	BIB	Used
		ESV:	Bearing [True]: 30.0° to 55.0° Bearing [Mag]: 27.0° to 52.0°		Arc Distance: Out to 45.0 NM Altitude: 5000.0 to 17000.0 Ft.		
7	CMI	N 40° 2' 4.30" W 88° 16' 33.82" E 3	L	744.7	110.00	CMI	Not Used
		ESV:	Bearing [True]: 125.0° to 160.0° Bearing [Mag]: 122.0° to 157.0°		Arc Distance: Out to 60.0 NM Altitude: 9000.0 to 16000.0 Ft.		

Radar Analysis

Return To Summary

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