Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 06/19/2012	Task #: 2012061925536401002	Request #: 20120619255364
Procedure: STAR MAUDD (RNAV) TWO LOUISVILLE KY KSDF		Airport ID: KSDF	Airport: LOUISVILLE INTL-STANDIFORD FIELD		Reimbursable #:
City: LOUISVILLE	ST: KY	GPS #:		Estimated Chart Date: 05/02/2013	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: CHRISTOPHER COX			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	07/17/2012	12/04/2012	MARLON ROBINSON	
QA:	12/04/2012	12/27/2012	CASIMIR TABAKA	ESV REQUEST INCLUDED
Liaison:	12/27/2012		Spurlin	

Procedure Comments: ENROUTE **Remark Type:** INFORMATION pg 5 of 5

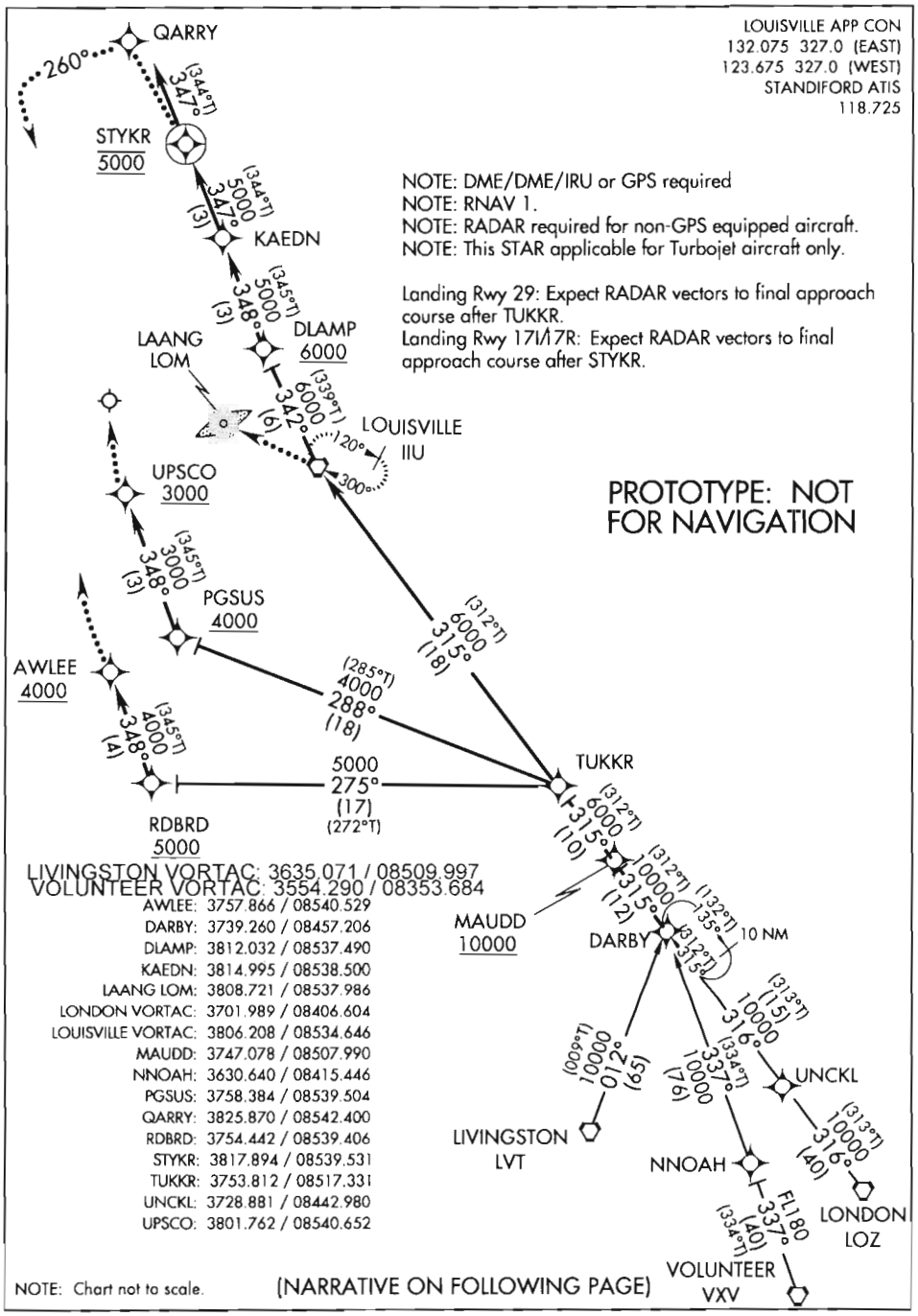
LOUISVILLE, KY LOUISVILLE INTL-STANDIFORD FIELD (KSDF) MAUDD TWO (RNAV) (STAR) ENROUTE-YES FC: 3.5.13 PUB: 5.2.13

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): DARBY-INT, REV 4; LOUISVILLE (IIU) VTAC, REV 10; PGSUS-INT, REV 3; VOLUNTEER (VXV) VTAC, REV 9; (INFO ONLY) AWLEE-INT, REV 2; DLAMP, ORIG; KAEDN, ORIG; LAANG (LK) LOM, REV 9; LIVINGSTON (LVT) VTAC, REV 5; LONDON (LOZ) VTAC, REV 10; MAUDD-INT, REV 4; NNOAH, ORIG; QARRY, ORIG; RDBRD-INT, REV 2; STYKR, ORIG; TUKKR, ORIG; UNCKL-INT, REV 2; UPSCO-INT, REV 4.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

MAUDD TWO ARRIVAL (RNAV)

LOUISVILLE, KENTUCKY



(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL ROUTE DESCRIPTION

LIVINGSTON TRANSITION (LVT.MAUDD2)
LONDON TRANSITION (LOZ.MAUDD2)
UNCKL TRANSITION (UNCKL.MAUDD2)
VOLUNTEER TRANSITION (VXV.MAUDD2)

PROTOTYPE: NOT FOR NAVIGATION

From over DARBY on track 315° to MAUDD, cross MAUDD at/above 10000 then on track 315° to TUKKR, then on assigned runway transition. . . .

Landing Rwy 35L: From over TUKKR on track 275° to RDBRD, cross RDBRD at/above 5000. Then on track 348° to AWLEE, cross AWLEE at/above 4000, Expect ILS Rwy 35L approach.

Landing Rwy 35R: From over TUKKR on track 288° to PGSUS, cross PGSUS at/above 4000. Then on track 348° to UPSCO, cross UPSCO at/above 3000, Expect ILS Rwy 35R approach.

Landing Rwy 17L/17R: From over TUKKR on track 315° to IIU VORTAC, then on track 342° to DLAMP, cross DLAMP at/above 5000. Then on track 348° to KAEDN, then on track 347° to STYKR, cross STYKR at 5000 , Then on track 347°, Expect radar vectors to final approach course.

Landing Rwy 29: From over TUKKR on track 315° to IIU VORTAC, then on track 342° to DLAMP, cross DLAMP at/above 6000, then on track 348° to KAEDN, then on track 347° to STYKR, cross STYKR at 5000, then on track 347°, Expect radar vectors to final approach course after TUKKR.

LOST COMMUNICATIONS:

Landing Rwy 35L: Track to AWLEE, cross AWLEE at/above 4000, intercept and execute ILS or LOC Rwy 35L approach. If unable, proceed to IIU VORTAC and hold, maintain 6000.

Landing Rwy 35R: Track to UPSCO, cross UPSCO at/above 3000, intercept and execute ILS or LOC Rwy 35R approach. If unable, proceed to IIU VORTAC and hold, maintain 6000.

Landing Rwy 17L/17R: Track to STYKR, cross STYKR at 5000, then proceed direct QARRY. At QARRY, fly heading 260°, maintain 5000, intercept and execute ILS or LOC Rwy 17L approach. If unable, proceed to IIU VORTAC and hold, maintain 6000.

Landing Rwy 29: Track to IIU VORTAC, maintain 6000, then proceed to LAANG LOM, maintain 4000; execute LOC Rwy 29 approach. If unable, proceed to IIU VORTAC and hold, maintain 6000.

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VOLUNTEER	City : KNOXVILLE	Ident : VXV	State : TN
Type/Class : TACR	Frequency : M1198	Reference No.: 10123413	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755466-024	335	340	99	98	180

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-024	335	340	99	98	180	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-024	335	340	99	98	180	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-024	335	340				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VOLUNTEER	City : KNOXVILLE	Ident : VXV	State : TN
Type/Class : TACR	Frequency : M1198	Reference No.: 10123405	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755466-023	340	1	99	98	180

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-023	340	1	99	98	180	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-023	340	1	99	98	180	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-023	340	1				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LOUISVILLE	City : LOUISVILLE	Ident : IIU	State : KY
Type/Class : TACR	Frequency : M1182	Reference No.: 10123415	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704184-038	138	144	95	95	160

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704184-038	138	144	95	95	160	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704184-038	138	144	95	95	160	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704184-038	138	144				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LONDON	City : LONDON	Ident : LOZ	State : KY
Type/Class : TACR	Frequency : M1195	Reference No.: 10123407	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698205-001	264	318	59	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698205-001	264	318	59	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698205-001	264	318	59	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698205-001	264	318				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LIVINGSTON	City : LIVINGSTON	Ident : LVT	State : TN
Type/Class : TACR	Frequency : M982	Reference No.: 10123414	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755487-008	66	105	50	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755487-008	66	105	50	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755487-008	66	105	50	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755487-008	66	105				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LIVINGSTON	City : LIVINGSTON	Ident : LVT	State : TN
Type/Class : TACR	Frequency : M982	Reference No.: 10123406	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755487-007	6	66	70	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755487-007	6	66	70	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755487-007	6	66	70	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755487-007	6	66				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LEXINGTON	City : LEXINGTON	Ident : HYK	State : KY
Type/Class : TACR	Frequency : M1160	Reference No.: 10123411	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 680420-014	170	194	95	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 680420-014	170	194	95	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 680420-014	170	194	95	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 680420-014	170	194				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LEXINGTON	City : LEXINGTON	Ident : HYK	State : KY
Type/Class : TACR	Frequency : M1160	Reference No.: 10123403	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 680420-013	243	290	75	45	230

Requirement: ESTABLISH ESV FOR SDF EMAUS RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 680420-013	243	290	75	45	230	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF EMAUS RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 680420-013	243	290	75	45	230	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF EMAUS RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 680420-013	243	290				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HINCH MOUNTAIN	City : HINCH MOUNTAIN	Ident : HCH	State : TN
Type/Class : TACR	Frequency : M1210	Reference No.: 10123408	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 700766-025	345	3	74	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 700766-025	345	3	74	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 700766-025	345	3	74	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 700766-025	345	3				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HINCH MOUNTAIN	City : HINCH MOUNTAIN	Ident : HCH	State : TN
Type/Class : TACR	Frequency : M1210	Reference No.: 10123410	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 700766-026	32	88	70	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 700766-026	32	88	70	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 700766-026	32	88	70	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 700766-026	32	88				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HARRIS	City : HARRIS	Ident : HRS	State : GA
Type/Class : TACR	Frequency : M996	Reference No.: 10123427	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 840974-011	349	4	78	95	240

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 840974-011	349	4	78	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 840974-011	349	4	78	95	240	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 840974-011	349	4				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BOWLING GREEN	City : BOWLING GREEN	Ident : BWG	State : KY
Type/Class : TACR	Frequency : M1213	Reference No.: 10123409	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704282-015	53	108	85	95	160

Requirement: ESTABLISH ESV FOR SDF MAUDD RNAV STAR

Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 12/21/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704282-015	53	108	85	95	160	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/21/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704282-015	53	108	85	95	160	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR SDF MAUDD RNAV STARApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 12/22/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704282-015	53	108				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

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

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
LONDON	LOZ .MAUDD2	LOZ VORTAC	UNCKL	315.95/39.56	10000			
		UNCKL	DARBY	315.58/15.34	10000			
LIVINGSTON	LVT.MAUDD2	LVT VORTAC	DARBY	12.00/64.92	10000			
UNCKL	UNCKL.MAUDD2	UNCKL	DARBY	315.58/15.34	10000			
VOLUNTEER	VXV .MAUDD2	VXV VORTAC	***NNOAH***	337.22/40.35	FL180			
		NNOAH	DARBY	337.22/76.24	10000			

(2) Arrival Route Description: FROM OVER DARBY ON TRACK 315.44/11.58 NM TO MAUDD, CROSS MAUDD AT/ABOVE 10000 (MEA 10000), THEN ON TRACK 315.32/10.00 NM TO TUKKR (MEA 6000), THEN ON ASSIGNED RUNWAY TRANSITION...

LANDING RWY 35L: FROM OVER TUKKR ON TRACK 275.18/17.48 NM TO RDBRD, CROSS RDBRD AT/ABOVE 5000 (MEA 5000), THEN ON TRACK 348.44/3.53 NM TO AWLEE, CROSS AWLEE AT/ABOVE 4000 (MEA 4000), EXPECT ILS RWY 35L APPROACH.

Continued on block 16...

(3) Procedural Data Notes: CHART NOTES: DME/DME/IRU OR GPS REQUIRED. RNAV 1. RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT. THIS STAR APPLICABLE FOR TURBOJET AIRCRAFT ONLY.
CROSS MAUDD AT/ABOVE 10000. CROSS DLAMP AT/ABOVE 6000. CROSS STYKR AT 5000. CROSS RDBRD AT/ABOVE 5000. CROSS PGSUS AT/ABOVE 4000. CROSS AWLEE AT/ABOVE 4000. CROSS UPSCO AT/ABOVE 3000.
LANDING RWY 29: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER TUKKR.
LANDING RWY 17L/17R: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER STYKR.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT DARBY (HOLD SE, RT, 315.44 INBOUND, 10 NM LEGS).
CHART HOLDING AT IIU VORTAC(HOLD SE, RT, 300.00 INBOUND, 10 NM LEGS).
CHART QARRY AND LAANG LOM AS STAND ALONE FIXES.

(5) Communications: LOUISVILLE APP CON
STANDIFORD ATIS

QUALITY 3 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

(12) Airports Served	
Airport Name LOUISVILLE INTL-STANDIFORD FIELD	City/State LOUISVILLE, KY
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure: LANDING RWY 35L: TRACK TO AWLEE, CROSS AWLEE AT/ABOVE 4000, INTERCEPT AND EXECUTE ILS OR LOC RWY 35L APPROACH. IF UNABLE.PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 35R: TRACK TO UPSCO, CROSS UPSCO AT/ABOVE 3000, INTERCEPT AND EXECUTE ILS OR LOC RWY 35R APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 17L/17R: TRACK TO STYKR, CROSS STYKR AT 5000, THEN PROCEED DIRECT QARRY, AT QARRY FLY HEADING 260, MAINTAIN 5000, INTERCEPT AND EXECUTE ILS OR LOC RWY 17L APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD , MAINTAIN 6000.

Continued on block 16...

(14) Remarks: DEPICT QARRY OFFSET FROM STYKR FM LEG.

(15) Additional Flight Data: REFERENCE MAG VAR: KSDF 03W/95
DME/DME ASSESSMENT: SAT RNP 2.0.

QUALITY 3 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

(16) Continuation:

(2) Arrival Route Description:
LANDING RWY 35R: FROM OVER TUKKR ON TRACK 287.71/18.13 NM TRACK TO PGSUS, CROSS PGSUS AT/ABOVE 4000 (MEA 4000), THEN ON TRACK 347.96/3.49 NM TO UPSCO, CROSS UPSCO AT/ABOVE 3000 (MEA 3000), EXPECT ILS RWY 35R APPROACH.

LANDING RWY 17L/17R: FROM OVER TUKKR ON TRACK 315.22/18.46 NM TO IIU VORTAC (MEA 6000), THEN ON TRACK 341.93/6.24 NM TO DLAMP, CROSS DLAMP AT/ABOVE 6000 (MEA 6000), THEN ON TRACK 347.95/3.06 NM TO KAEDN (MEA 5000), THEN ON TRACK 347.34/3.01 NM TO STYKR, CROSS STYKR AT 5000 (MEA 5000), THEN ON TRACK 347.34, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 29: FROM OVER TUKKR ON TRACK 315.22/18.46 NM TO IIU VORTAC (MEA 6000), THEN ON TRACK 341.93/6.24 NM TO DLAMP, CROSS DLAMP AT/ABOVE 6000 (MEA 6000), THEN ON TRACK 347.95/3.06 NM TO KAEDN (MEA 5000), THEN ON TRACK 347.34/3.01 NM TO STYKR, CROSS STYKR AT 5000 (MEA 5000), THEN ON TRACK 347.34, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER TUKKR.

(13) Lost Communications Procedure:
LANDING RWY 29: TRACK TO IIU VORTAC, MAINTAIN 6000, THEN PROCEED TO LAANG LOM, MAINTAIN 4000; EXECUTE LOC RWY 29 APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

(17) Changes: 1. ADDED UNCKL ENROUTE TRANSITION.
2. ADDED LANDING RWY 17L/17R EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER STYKR ANNOTATION TO GRAPHIC.
3. ADDED HOLDING AT IIU VORTAC TO CHART.

(18) Reasons for Changes:

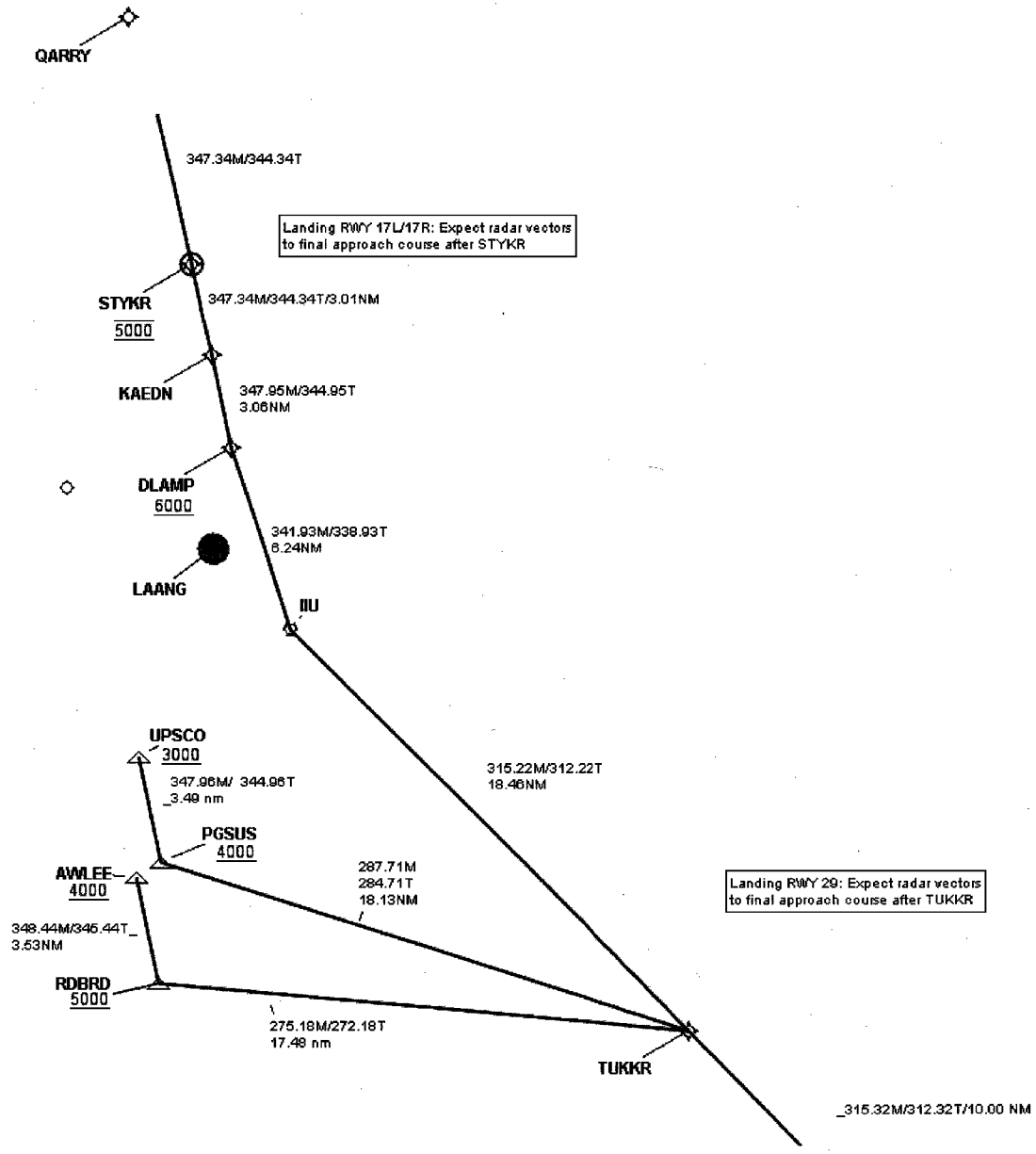
1-3. REQUESTED BY ATC.

QUALITY CHECKED

	Name (Typed and Signed), Title and Organization		DATE
Developed By	THOMAS DURY, SUPPORT MANAGER FOR OPERATIONS, INDIANAPOLIS ARTCC		18 JUN 2012
Approved	AJW-351	DARRYEL ADAMS, MANAGER	
	Reg. ATD		

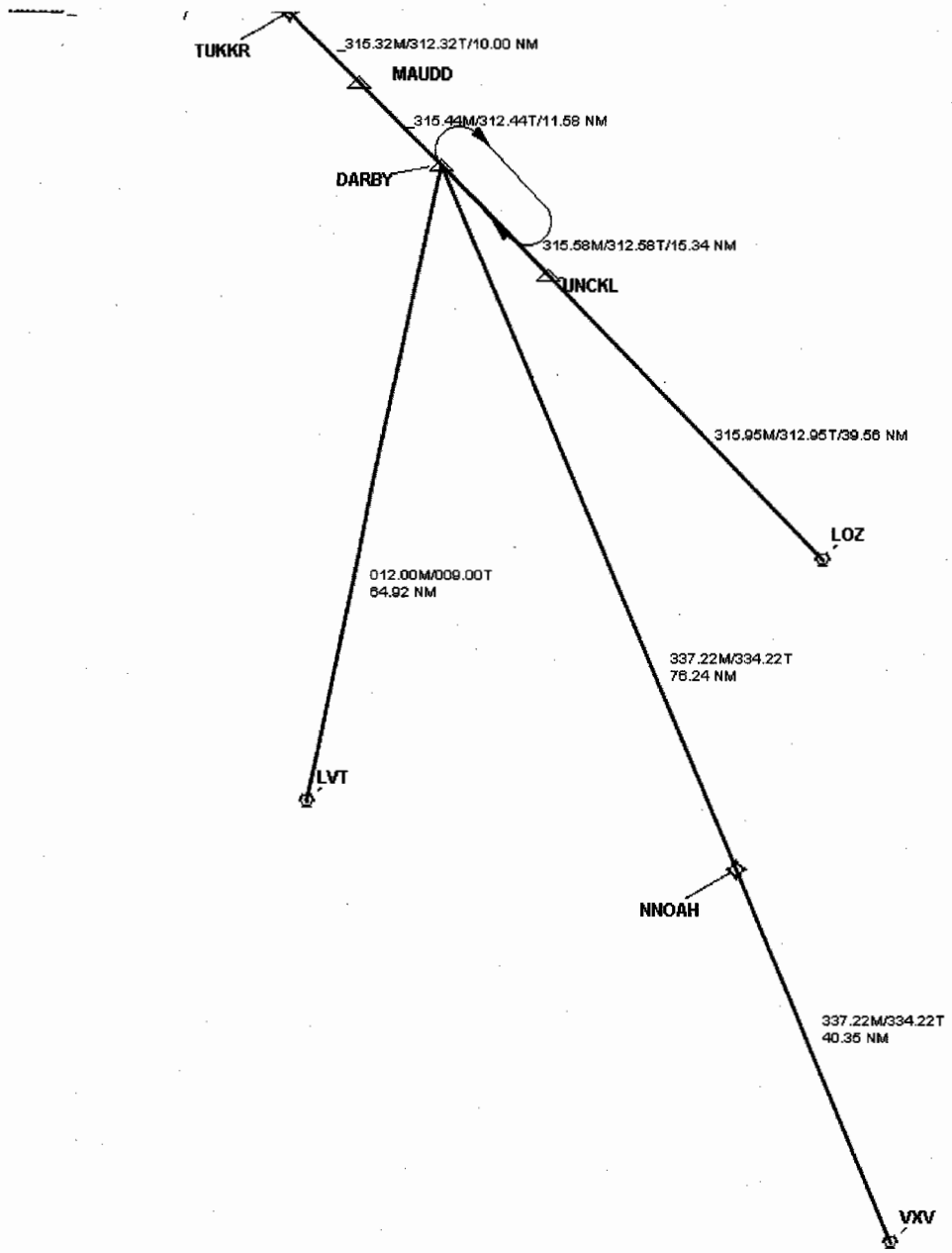
(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

(19) Graphic Depiction (1 of 2)



QUALITY CHECKED

(19) Graphic Depiction (2 of 2)



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									
LOZ VORTAC	370159.34N / 0840636.27W	Y		IF					LOZ.MAUDD2
UNCKL	372852.88N / 0844258.79W	Y	FB	TF	312.95	39.56			
DARBY	373915.59N / 0845712.37W	Y	FB	TF	312.58	15.34			HOLDING - RIGHT TURNS
En Route Transition									
LVT VORTAC	363504.23N / 0850959.84W	Y		IF					LVT.MAUDD2
DARBY	373915.59N / 0845712.37W	Y	FB	TF	009.00	64.92			HOLDING - RIGHT TURNS
En Route Transition									
UNCKL	372852.88N / 0844258.79W	Y		IF					UNCKL.MAUDD2
DARBY	373915.59N / 0845712.37W	Y	FB	TF	312.58	15.34			HOLDING - RIGHT TURNS
En Route Transition									
VXV VORTAC	355417.42N / 0835341.02W	Y		IF					VXV.MAUDD2
NNOAH	363038.43N / 0841526.77W	Y	FB	TF	334.22	40.35			

QUALITY CHECKED 3

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

FAA Form 7100-3 (9/02)

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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
DARBY	373915.59N / 0845712.37W	Y	FB	TF	334.22	76.24			HOLDING - RIGHT TURNS
Common Route									
DARBY	373915.59N / 0845712.37W	Y		IF					HOLDING - RIGHT TURNS
MAUDD	374704.66N / 0850759.38W	Y	FB	TF	312.44	11.58	+10000		
TUKKR	375348.71N / 0851719.86W	Y	FB	TF	312.32	10.00			
Runway Transition									
TUKKR	375348.71N / 0851719.86W	Y		IF					
IIU VORTAC	380612.47N / 0853438.77W	Y	FB	TF	312.22	18.46			
DLAMP	381201.95N / 0853729.40W	Y	FB	TF	338.93	06.24	+6000		
KAEDN	381459.68N / 0853829.99W	Y	FB	TF	344.95	03.06			
STYKR	381753.66N / 0853931.88W	Y	FO	TF	344.34	03.01	5000		
KSDF:RW17L				FM	344.34				
Runway Transition									

QUALITY CHECKED 3

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

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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
TUKKR	375348.71N / 0851719.86W	Y		IF					
IIU VORTAC	380612.47N / 0853438.77W	Y	FB	TF	312.22	18.46			
DLAMP	381201.95N / 0853729.40W	Y	FB	TF	338.93	06.24	+6000		
KAEDN	381459.68N / 0853829.99W	Y	FB	TF	344.95	03.06			
STYKR	381753.66N / 0853931.88W	Y	FO	TF	344.34	03.01	5000		
KSDF:RW17R				FM	344..34				
Runway Transition									
TUKKR	375348.71N / 0851719.86W	Y		IF					
IIU VORTAC	380612.47N / 0853438.77W	Y	FB	TF	312.22	18.46			
DLAMP	381201.95N / 0853729.40W	Y	FB	TF	338.93	06.24	+6000		
KAEDN	381459.68N / 0853829.99W	Y	FB	TF	344.95	03.06			
STYKR	381753.66N / 0853931.88W	Y	FO	TF	344.34	03.01	5000		
KSDF:RW29				FM	344.34				
Runway Transition									

QUALITY 3 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

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TUKKR	375348.71N / 0851719.86W	Y		IF					
RDBRD	375426.53N / 0853924.36W	Y	FB	TF	272.18	17.48	+5000		
AWLEE	375751.97N / 0854031.76W	Y	FB	TF	345.44	03.53	+4000		
KSDF:RW35L									
Runway Transition									
TUKKR	375348.71N / 0851719.86W	Y		IF					
PGSUS	375823.03N / 0853930.25W	Y	FB	TF	284.71	18.13	+4000		
UPSCO	380145.69N / 0854039.09W	Y	FB	TF	344.96	03.49	+3000		
KSDF:RW35R									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

FAA Form 7100-3 (9/02)

QUALITY 3 CHECKED

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
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        IIU   K5011480VTH  N38061247W085343877    N38061247W085343877E0010007202     NARLOUISVILLE
        SUSAD        LOZ   K5011610VTLA N37015934W084063627    N37015934W084063627W0030012451     NARLONDON
        SUSAD        LVT   K7010840VTL  N36350423W085095984    N36350423W085095984W0020010201     NARLIVINGSTON
        SUSAD        VXV   K7011640VTHA N35541742W083534102    N35541742W083534102W0030012902     NARVOLUNTEER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AWLEE K50    C     N37575197W085403176                    W0045     NAR          AWLEE
        SUSAEAENRT   DARBY K50    C   B N37391559W084571237                    W0050     NAR          DARBY
        SUSAEAENRT   DLAMP K50    W     N38120195W085372940                    W0046     NAR          DLAMP
        SUSAEAENRT   KAEDN K50    W     N38145968W085382999                    W0046     NAR          KAEDN
        SUSAEAENRT   MAUDD K50    C   L N37470466W085075938                    W0049     NAR          MAUDD
        SUSAEAENRT   NNOAH K70    W     N36303843W084152677                    W0053     NAR          NNOAH
        SUSAEAENRT   PGSUS K50    C     N37582303W085393025                    W0045     NAR          PGSUS
        SUSAEAENRT   RDBRD K50    C     N37542653W085392436                    W0045     NAR          RDBRD
        SUSAEAENRT   STYKR K50    W     N38175366W085393188                    W0046     NAR          STYKR
        SUSAEAENRT   TUKKR K50    W     N37534871W085171986                    W0048     NAR          TUKKR
        SUSAEAENRT   UNCKL K50    C   B N37285288W084425879                    W0052     NAR          UNCKL
        SUSAEAENRT   UPSCO K50    C     N38014569W085403909                    W0045     NAR          UPSCO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5ASDF     0     118YHN38102671W085441140W003000501         1800018000C    MNAR    LOUISVILLE INTL-STANDIFORD FIE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5EMAUDD24LOZ   010LOZ  K5D 0V       IF                                                  18000
        SUSAP KSDFK5EMAUDD24LOZ   020UNCKLK5EA0E    010TF                    31600396
        SUSAP KSDFK5EMAUDD24LOZ   030DARBYK5EA0EE H 010TF                    31560153
        SUSAP KSDFK5EMAUDD24LVT   010LVT  K7D 0V       IF                                                  18000
        SUSAP KSDFK5EMAUDD24LVT   020DARBYK5EA0EE H 010TF                    01200649
        SUSAP KSDFK5EMAUDD24UNCKL 010UNCKLK5EA0E       IF                                                  18000
        SUSAP KSDFK5EMAUDD24UNCKL 020DARBYK5EA0EE H 010TF                    31560153
        SUSAP KSDFK5EMAUDD24VXV   010VXV  K7D 0V       IF                                                  18000
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QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

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SUSAP KSDFK5EMAUDD24VXV   020NNOAHK7EA0E    010TF                    33720404
SUSAP KSDFK5EMAUDD24VXV   030DARBYK5EA0EE H 010TF                    33720762
SUSAP KSDFK5EMAUDD25      010DARBYK5EA0E  H    IF                                                18000
SUSAP KSDFK5EMAUDD25      020MAUDDK5EA0E    010TF                    31540116    + 10000
SUSAP KSDFK5EMAUDD25      030TUKKRK5EA0EE   010TF                    31530100
SUSAP KSDFK5EMAUDD26RW17B 010TUKKRK5EA0E       IF                                                18000
SUSAP KSDFK5EMAUDD26RW17B 020IIU  K5D 0V  H 010TF                    31520185
SUSAP KSDFK5EMAUDD26RW17B 030DLAMPK5EA0E    010TF                    34190062    + 06000
SUSAP KSDFK5EMAUDD26RW17B 040KAEDNK5EA0E    010TF                    34800031
SUSAP KSDFK5EMAUDD26RW17B 050STYKRK5EA0EY   010TF                    34730030      05000
SUSAP KSDFK5EMAUDD26RW17B 060STYKRK5EA0EE      FM LOZ K5      319210583473    D
SUSAP KSDFK5EMAUDD26RW29  010TUKKRK5EA0E       IF                                                18000
SUSAP KSDFK5EMAUDD26RW29  020IIU  K5D 0V  H 010TF                    31520185
SUSAP KSDFK5EMAUDD26RW29  030DLAMPK5EA0E    010TF                    34190062    + 06000
SUSAP KSDFK5EMAUDD26RW29  040KAEDNK5EA0E    010TF                    34800031
SUSAP KSDFK5EMAUDD26RW29  050STYKRK5EA0EY   010TF                    34730030      05000
SUSAP KSDFK5EMAUDD26RW29  060STYKRK5EA0EE      FM LOZ K5      319210583473    D
SUSAP KSDFK5EMAUDD26RW35L 010TUKKRK5EA0E       IF                                                18000
SUSAP KSDFK5EMAUDD26RW35L 020RDBRDK5EA0E    010TF                    27520175    + 05000
SUSAP KSDFK5EMAUDD26RW35L 030AWLEEK5EA0EE   010TF                    34840035    + 04000
SUSAP KSDFK5EMAUDD26RW35R 010TUKKRK5EA0E       IF                                                18000
SUSAP KSDFK5EMAUDD26RW35R 020PGSUSK5EA0E    010TF                    28770181    + 04000
SUSAP KSDFK5EMAUDD26RW35R 030UPSCOK5EA0EE   010TF                    34800035    + 03000

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
SUSAP KSDFK5GRW17L   0085791679 N38111114W085435176-0300    +011890049903295515 0IIPKI1
SUSAP KSDFK5GRW17R   0118901684 N38110507W085445295-0200    +011470048508505015 0IISNU1
SUSAP KSDFK5GRW29    0072502941 N38102299W085432577+0000    +011310048000005515 0RILKS0
SUSAP KSDFK5GRW35L   0118903484 N38092941W085442138+0200    +010740046110405915 0IIRLI3
SUSAP KSDFK5GRW35R   0085793479 N38095670W085432634+0300    +011040047204506015 0IIJJM3
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QUALITY A CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

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Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	LOZ	LOZ	010		IF		FB					
	LOZ	UNCKL	020		TF		FB	1.0	316.0()	039.6		
	LOZ	DARBY	030		TF		FB	1.0	315.6()	015.3		
	LVT	LVT	010		IF		FB					
	LVT	DARBY	020		TF		FB	1.0	012.0()	064.9		
	UNCKL	UNCKL	010		IF		FB					
	UNCKL	DARBY	020		TF		FB	1.0	315.6()	015.3		
	VXV	VXV	010		IF		FB					
	VXV	NNOAH	020		TF		FB	1.0	337.2()	040.4		
	VXV	DARBY	030		TF		FB	1.0	337.2()	076.2		
		DARBY	010		IF		FB					
		MAUDD	020		TF		FB	1.0	315.4()	011.6	AA 10000	
		TUKKR	030		TF		FB	1.0	315.3()	010.0		
	RW17B	TUKKR	010		IF		FB					
	RW17B	IIU	020		TF		FB	1.0	315.2()	018.5		
	RW17B	DLAMP	030		TF		FB	1.0	341.9()	006.2	AA 06000	
	RW17B	KAEDN	040		TF		FB	1.0	348.0()	003.1		
	RW17B	STYKR	050		TF		FO	1.0	347.3()	003.0	AT 05000	
	RW17B	STYKR	060		FM		FB		347.3()			
	RW29	TUKKR	010		IF		FB					
	RW29	IIU	020		TF		FB	1.0	315.2()	018.5		
	RW29	DLAMP	030		TF		FB	1.0	341.9()	006.2	AA 06000	
	RW29	KAEDN	040		TF		FB	1.0	348.0()	003.1		
	RW29	STYKR	050		TF		FO	1.0	347.3()	003.0	AT 05000	
	RW29	STYKR	060		FM		FB		347.3()			
	RW35L	TUKKR	010		IF		FB					
	RW35L	RDBRD	020		TF		FB	1.0	275.2()	017.5	AA 05000	
	RW35L	AWLEE	030		TF		FB	1.0	348.4()	003.5	AA 04000	
	RW35R	TUKKR	010		IF		FB					
	RW35R	PGSUS	020		TF		FB	1.0	287.7()	018.1	AA 04000	
	RW35R	UPSCO	030		TF		FB	1.0	348.0()	003.5	AA 03000	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
IIU	N380612.47	W0853438.77	N3806.208	W08534.646
LOZ	N370159.34	W0840636.27	N3701.989	W08406.605
LVT	N363504.23	W0850959.84	N3635.071	W08509.997
VXV	N355417.42	W0835341.02	N3554.290	W08353.684

QUALITY CHECKED 4

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

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AWLEE	N375751.97	W0854031.76	N3757.866	W08540.529
DARBY	N373915.59	W0845712.37	N3739.260	W08457.206
DLAMP	N381201.95	W0853729.40	N3812.033	W08537.490
KAEDN	N381459.68	W0853829.99	N3814.995	W08538.500
MAUDD	N374704.66	W0850759.38	N3747.078	W08507.990
NNOAH	N363038.43	W0841526.77	N3630.641	W08415.446
PGSUS	N375823.03	W0853930.25	N3758.384	W08539.504
RDBRD	N375426.53	W0853924.36	N3754.442	W08539.406
STYKR	N381753.66	W0853931.88	N3817.894	W08539.531
TUKKR	N375348.71	W0851719.86	N3753.812	W08517.331
UNCKL	N372852.88	W0844258.79	N3728.881	W08442.980
UPSCO	N380145.69	W0854039.09	N3801.762	W08540.652
RW17L	N381111.14	W0854351.76	N3811.186	W08543.863
RW17R	N381105.07	W0854452.95	N3811.085	W08544.883
RW29	N381022.99	W0854325.77	N3810.383	W08543.430
RW35L	N380929.41	W0854421.38	N3809.490	W08544.356
RW35R	N380956.70	W0854326.34	N3809.945	W08543.439

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	00499	55
RW17R	00485	50
RW29	00480	55
RW35L	00461	59
RW35R	00472	60

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
MAUDD RNAV	TWO	DARBY.MAUDD2	ONE	26 JUL 2012	

RADIO FIX AND HOLDING DATA RECORD

NAME: DARBY **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 373915.59N/0845712.37W **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	LOUISVILLE	IIU	VORTAC	H	131.05	132.05	40.04	40.04		3000	45000
2	LIVINGSTON	LVT	VORTAC	L	011.00	009.00		64.92		3000	12000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IIU	VORTAC	R-131	41	3000	15300
LVT	VORTAC	R-011	65	3000	12000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	IIU	VORTAC	131.05	311.05	R	1-1 1/2		3000	23000	6	21
2	NW		WP	315.05	135.05	R		4	3000	6000	5	6
3	SE		WP	135.44	315.44	R		10	10000	23000	15	20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	373145.00N/0845133.00W	1654	4E
1	310	TOWER (18-0486)	373110.00N/0845210.80W	1785	5E
2	200	AAO	373530.62N/0845321.28W	1579	2C
2	310	TOWER (18-0486)	373110.00N/0845210.80W	1785	5E
3	230	TOWER (21-000486)	373110.00N/0845210.80W	1785	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LOC/DME RWY 30	KDVK	DANVILLE	KY (US)
2	RNAV (GPS) RWY 30	KDVK	DANVILLE	KY (US)

REMARKS:
LOUISVILLE (FAC 1) AND LIVINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 3 - 10 NM LEGS REQUESTED BY ATC FOR RNAV STAR HOLDING.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V310	1, 2				(US)
IAP	LOC/DME RWY 30	1, 2	1	KDVK	DANVILLE	KY (US)
IAP	RNAV (GPS) RWY 30		2	KDVK	DANVILLE	KY (US)
STAR	DARBY	1, 2	1	KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)		3	KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
1. UPDATED PAT 3 PATTERN SIZES FROM 16/21 TO 15/20
2. LOWERED FAC 2 MAA AND FAC 2 ESV MAX ALT FROM 33000 TO 12000 BECAUSE OF ESV RESTRICTIONS

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

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: LEX APP CON, SDF ATCT
OTHER: CENTRAL FPO

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LOUISVILLE VORTAC **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380612.47N/0853438.77W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H							45000

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

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	IIU	VORTAC	120.00	300.00	R	1		3000	6000	4	5
2	SE		WP	120.00	300.00	R		4	3000	6000	5	6
3	SE		WP	120.00	300.00	R		10	6000	6000	15	15

CONTROLLING OBSTRUCTIONS:

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

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DAWNN			KEYE	INDIANAPOLIS	IN (US)
DP	DAWNN			KHFY	INDIANAPOLIS	IN (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	DAWNN			KMQJ	INDIANAPOLIS	IN (US)
DP	DAWNN			KTYQ	INDIANAPOLIS	IN (US)
DP	DAWNN			KUMP	INDIANAPOLIS	IN (US)
DP	DAWNN			KGEZ	SHELBYVILLE	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	CHCLL (RNAV)			KCVG	COVINGTON	KY (US)
DP	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	CHATANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	J112					(US)
EN ROUTE	J39					(US)
EN ROUTE	J526					(US)
EN ROUTE	J78					(US)
EN ROUTE	J8					(US)
EN ROUTE	J89					(US)
EN ROUTE	J99					(US)
EN ROUTE	T213					(US)
EN ROUTE	V171					(US)
EN ROUTE	V310					(US)
EN ROUTE	V4					(US)
EN ROUTE	V5					(US)
EN ROUTE	V51					(US)
EN ROUTE	V512					(US)
EN ROUTE	V513					(US)
EN ROUTE	V53					(US)

QUALITY 3 CHECKED

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

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

COMPULSORY REPORTING POINT: NO

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

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

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

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PGSUS **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 375823.03N/0853930.25W **TYPE:** WP, RADAR, 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	LOUISVILLE	I-JJM	LOC		168.92	164.92	13.39	13.41		4000	5000
2	LOUISVILLE	IIU	VORTAC	H	205.18	206.18		8.71		4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-JJM	LOC	BRG-169	14	4000	5000

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

REMARKS:
LOUISVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-JJM DME LAT/LONG: 381120.41N/0854351.64W.
ESV IS FOR I-JJM GLIDESLOPE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35R	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT III)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35R			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
UPDATED FAC 2 MAG/TRUE BRNGS FROM 205.19/206.19 TO 205.18/206.18
UPDATED FAC 2 DIST FROM NM FROM 8.70 TO 8.71

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

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VOLUNTEER VORTAC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 355417.42N/0835341.02W **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	VOLUNTEER	VXV	VORTAC	H							45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VXV	VORTAC	R-173	55	90	14500

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	NE	VXV	VORTAC	053.00	233.00	L	1-1 1/2		4000	36000	4	25
2	NE		WP	053.00	233.00	L		5	4000	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	355441.65N/0834603.68W	1739	2C
1	310	TOWER (47-002285)	360012.82N/0835634.04W	2849	2C
2	200	AAO	355441.65N/0834603.68W	1739	2C
2	310	TOWER (47-002285)	360012.82N/0835634.04W	2849	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 AIR TRAFFIC REQUEST
PAT 2 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) RWY 5L	KTYS	KNOXVILLE	TN (US)
2	RNAV (GPS) RWY 5R	KTYS	KNOXVILLE	TN (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CADIT (RNAV)			KATL	ATLANTA	GA (US)
DP	COKEM (RNAV)			KATL	ATLANTA	GA (US)
DP	NUGGT (RNAV)			KATL	ATLANTA	GA (US)
DP	SUMMT (RNAV)			KATL	ATLANTA	GA (US)
DP	FEDRA (RNAV)			KSDF	LOUISVILLE	KY (US)
DP	ASHEVILLE			KAVL	ASHEVILLE	NC (US)
DP	BOBCAT			KCLT	CHARLOTTE	NC (US)
DP	ZAVER (RNAV)			KCLT	CHARLOTTE	NC (US)
DP	BOBCAT			KJQF	CONCORD	NC (US)
DP	BOBCAT			KAKH	GASTONIA	NC (US)
DP	HICKORY			KHKY	HICKORY	NC (US)
DP	BOBCAT			KEQY	MONROE	NC (US)
DP	BOBCAT			KUZA	ROCK HILL	SC (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	TAKE-OFF MINIMUMS			KJAU	JACKSBORO	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	TITAN (OBSTACLE)			KBNA	NASHVILLE	TN (US)
DP	TAKE-OFF MINIMUMS			KGKT	SEVIERVILLE	TN (US)
EN ROUTE	J22					(US)
EN ROUTE	J43					(US)
EN ROUTE	J46					(US)
EN ROUTE	J91					(US)
EN ROUTE	J99					(US)
EN ROUTE	V115					(US)
EN ROUTE	V136					(US)
EN ROUTE	V16					(US)
EN ROUTE	V185					(US)
EN ROUTE	V267					(US)
EN ROUTE	V384					(US)
EN ROUTE	V466					(US)
EN ROUTE	V519					(US)
EN ROUTE	V97					(US)
IAP	LOC RWY 26			KDKX	KNOXVILLE	TN (US)

QUALITY CHECKED 3

IAP	VOR/DME-B		KDKX	KNOXVILLE	TN (US)
IAP	ILS OR LOC RWY 23R		KTYS	KNOXVILLE	TN (US)
IAP	ILS OR LOC RWY 5L	1	KTYS	KNOXVILLE	TN (US)
IAP	ILS RWY 23R (CAT II)		KTYS	KNOXVILLE	TN (US)
IAP	RNAV (GPS) RWY 5L	2	KTYS	KNOXVILLE	TN (US)
IAP	RNAV (GPS) RWY 5R	2	KTYS	KNOXVILLE	TN (US)
IAP	VOR RWY 23L		KTYS	KNOXVILLE	TN (US)
IAP	VOR RWY 23R		KTYS	KNOXVILLE	TN (US)
IAP	RNAV (GPS) RWY 23		KMNV	MADISONVILLE	TN (US)
IAP	NDB RWY 5		KMOR	MORRISTOWN	TN (US)
IAP	SDF RWY 5		KMOR	MORRISTOWN	TN (US)
IAP	RNAV (GPS) RWY 10		KGKT	SEVIERVILLE	TN (US)
IAP	VOR/DME RWY 10		KGKT	SEVIERVILLE	TN (US)
STAR	WHINZ		KATL	ATLANTA	GA (US)
STAR	AWSON		KPDK	ATLANTA	GA (US)
STAR	HARDU		KCVG	COVINGTON	KY (US)
STAR	JAKIE (RNAV)		KCVG	COVINGTON	KY (US)
STAR	DARBY		KLOU	LOUISVILLE	KY (US)
STAR	DARBY		KSDF	LOUISVILLE	KY (US)
STAR	JOHNS (RNAV)		KCLT	CHARLOTTE	NC (US)
STAR	SHINE		KCLT	CHARLOTTE	NC (US)
STAR	UNMAN (RNAV)		KGYH	GREENVILLE	SC (US)
STAR	UNMAN (RNAV)		KGSP	GREER	SC (US)
STAR	VOLLS		KMBT	MURFREESBORO	TN (US)
STAR	SWFFT (RNAV)		KBNA	NASHVILLE	TN (US)
STAR	VOLLS		KBNA	NASHVILLE	TN (US)
STAR	VOLLS		KJWN	NASHVILLE	TN (US)
STAR	VOLLS		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
CHANGED HOLDING PATTERN 2 MINIMUM TEMPLATE FROM 5 TO 6 TO SUPPORT CHARTED 5 MILE DME LEG LENGTH.

DEVELOPED BY: **DATE:** 10/18/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (MIKE MELSSEN)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZTL
ATC FACILITY: TYS APP CON
OTHER: NGB/ANG/C4AT

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: AWLEE **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 375751.97N/0854031.76W INFO ONLY **TYPE:** WP, RADAR, 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	LOUISVILLE	I-RLI	LOC/DME		169.39	165.39	13.84	13.86		4000	5000
2	LOUISVILLE	IIU	VORTAC	H	208.18	209.18		9.54		4000	5000

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

REMARKS:
I-RLI DME COORDINATES: 381117.18N-0854453.38W
I-RLI (FAC 1)USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35L	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT III)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (SA CAT I)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
MOVED FIX 7080.12'/1.17 NM S.
CHANGED FAC 1 MAG BRG FROM 168.39 TO 169.39, DME FROM 12.68 TO 13.84 AND ADDED DIST FROM FAC DATA.
CHANGED FAC 2 MAG BRG/TRUE BRG FROM 213.47/214.47 TO 208.18/209.18 AND ADDED DIST FROM FAC DATA.
DELETED FAC 3 (RWY) DATA.
ADDED ESV DATA.
DELETED REMARKS: KSDF R35L (FAC 3) USED TO ESTABLISH FIX COORDINATES AND
KSDF RWY 35L DISPLACED THRESHOLD COORDINATES: 380929.40N-0854421.37W.
ADDED STAR TO CHARTING.
DELETED ESV.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/14/2011 **OFFICE:** AJV-352 **NAME:** BRIAN SHAFFER

APPROVED BY: **DATE:** 03/21/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DLAMP **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381201.95N/0853729.40W **TYPE:** WP

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

INFO ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/10/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: KAEDN **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381459.68N/0853829.99W **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 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/10/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LAANG LOM **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380843.24N/0853759.15W **TYPE:**

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

INFO ONLY

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	LAANG	LK	LOM-NDB								17500
2	LOUISVILLE	I-LKS	LOC		114.13	111.13		5.91	35925	2200	4900

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	I-LKS	LOC	114.13	294.13	R	1		2300	4900	4	5
2	S	LK	NDB	168.20	348.20	R	1		2500	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-000115)	381135.00N/0853114.00W	1229	4D
2	200	TOWER (21-020059)	380615.81N/0853401.36W	1021	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE LAANG LOM.
ACTUAL FACILITY LOCATION IS 380841.43N/0853759.89W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 33	1	2	KLOU	LOUISVILLE	KY (US)
IAP	LOC RWY 29	1, 2	1	KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/26/2012

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

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: LIVINGSTON VORTAC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 363504.23N/0850959.84W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LIVINGSTON	LVT	VORTAC	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	LVT	VORTAC	325.00	145.00	R	1		3200	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	363301.30N/0850654.87W	1919	2C

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	KNOXVILLE			KDKX	KNOXVILLE	TN (US)
EN ROUTE	V140					(US)
EN ROUTE	V321					(US)
EN ROUTE	V384					(US)
EN ROUTE	V493					(US)
EN ROUTE	V51					(US)
EN ROUTE	V513					(US)
EN ROUTE	V52					(US)
IAP	LOC DME RWY 30			KDVK	DANVILLE	KY (US)
IAP	GPS RWY 03			KEKQ	MONTICELLO	KY (US)
IAP	ILS OR LOC DME RWY 05			KSME	SOMERSET	KY (US)
IAP	RNAV (GPS) RWY 4			KTZV	TOMPKINSVILLE	KY (US)
IAP	VOR/DME OR GPS A		1	K2A1	JAMESTOWN	TN (US)
IAP	VOR/DME RWY 21		1	K8A3	LIVINGSTON	TN (US)
IAP	ILS OR LOC RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	SDF RWY 23			KSCX	ONEIDA	TN (US)
IAP	VOR/DME A			KSCX	ONEIDA	TN (US)
STAR	DARBY			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	GUITR			KBNA	NASHVILLE	TN (US)
STAR	PASLY (RNAV)			KBNA	NASHVILLE	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FACILITY COORDINATES TO MATCH AVNIS AND NASR DATA BASES. FIX MOVED 1.01 FEET.
ADDED NOTE: HOLDING LIMITED TO ESTABLISHED PATTERN.
ADDED REMARK: PRECIPITOUS TERRAIN EVALUATION COMPLETED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/29/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LONDON VORTAC **STATE:** KY **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 370159.34N/0840636.27W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LONDON	LOZ	VORTAC	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	LOZ	VORTAC	065.88	245.88	R	1		3500	14000	4	10
2	SW	LOZ	VORTAC	205.32	025.32	R	1		3500	14000	4	10
3	E	LOZ	VORTAC	088.61	268.61	R	1		3700	14000	4	10
4	N	LOZ	VORTAC	019.77	199.77	R	1		3300	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-001307)	370901.00N/0835932.00W	1933	5E
1	310	TOWER (21-020043)	370341.04N/0835128.32W	1975	1A
2	200	AAO	365436.00N/0840615.00W	1897	4E
2	310	AAO	365109.00N/0840533.00W	2153	4E
3	200	AAO	370239.00N/0835651.00W	1788	4E
4	200	TOWER (21-001967)	370745.00N/0840541.00W	1696	1A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 6	KLOZ	LONDON	KY (US)
2	VOR RWY 6	KLOZ	LONDON	KY (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HICKORY			KHKY	HICKORY	NC (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	V140					(US)
EN ROUTE	V310					(US)
EN ROUTE	V347					(US)
EN ROUTE	V517					(US)
EN ROUTE	V97					(US)
IAP	ILS OR LOC RWY 6		1	KLOZ	LONDON	KY (US)
IAP	VOR RWY 6		2	KLOZ	LONDON	KY (US)
IAP	ILS OR LOC/DME RWY 5 (ALT MISS)		3	KSME	SOMERSET	KY (US)
IAP	LOC/DME RWY 20		4	KBYL	WILLIAMSBURG	KY (US)
IAP	VOR/DME RWY 20		4	KW38	WILLIAMSBURG	KY (US)
STAR	JAKIE (RNAV)			KCVG	COVINGTON	KY (US)
STAR	DARBY			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	UNMAN (RNAV)			KGYH	GREENVILLE	SC (US)
STAR	UNMAN (RNAV)			KGSP	GREER	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 08/25/2011

QUALITY 3 CHECKED

REASON FOR REVISION:
1. UPDATED LAT/LONG TO MATCH PENDING AVNIS DATA.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/30/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (NICHOLAS JACKSON)

APPROVED BY: **DATE:** 06/27/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY:
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: MAUDD **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 374704.66N/0850759.38W **TYPE:** WP, INT, DME

INFO ONLY

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	LOUISVILLE	IIU	VORTAC	H	131.05	132.05	28.46	28.46		2700	17500
2	NEW HOPE	EWO	VOR/DME	L	069.32	070.32	27.42	27.42		2700	17500

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

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	373533.00N/0845324.00W	1549	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3600

REMARKS:
LOUISVILLE (FAC 1) AND NEW HOPE (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V178	1, 2				(US)
EN ROUTE	V310	1, 2				(US)
IAP	LOC/DME RWY 30			KDVK	DANVILLE	KY (US)
IAP	NDB-A			KDVK	DANVILLE	KY (US)
IAP	RNAV (GPS) RWY 12			KDVK	DANVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED DIST FROM FAC TO FAC 1 AND 2.
DELETED FAC 3 - ZUTOB.
MOVED NOTE-UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3600- TO HOLDING RESTRICTIONS BLOCK.
ADDED NOTE TO REMARKS BLOCK-PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ADDED STAR TO REQUIRED CHARTING.
ADDED REMARK: LOUISVILLE (FAC 1) AND NEW HOPE (FAC 2) USED TO ESTABLISH FIX COORDINATES
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/30/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: LEX APP CON, SDF APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NNOAH **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 363038.43N/0841526.77W **TYPE:** WP

INFO ONLY

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/29/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: ZTL
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: QARRY **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 382552.21N/0854224.02W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

INFO ONLY

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/10/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: RDBRD **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 375426.53N/0853924.36W **TYPE:** WP, RADAR, 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	LOUISVILLE	I-RLI	LOC/DME		169.39	165.39	17.37	17.39		5000	6000
2	LOUISVILLE	IIU	VORTAC	H	196.77	197.77		12.34		5000	6000

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

REMARKS:
I-RLI DME COORDINATES: 381117.18N-0854453.38W
I-RLI (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35L	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT III)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (SA CAT I)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
MOVED FIX 9470.75'/1.56 NM S.
CHANGED FAC 1 MAG BRG FROM 168.39 TO 169.39, DME FROM 15.82 TO 17.37 NM, AND ADDED DIST FROM FAC DATA.
CHANGED FAC 2 MAG BRG/TRUE BRG FROM 201.09/202.09 TO 196.77/197.77 AND ADDED
DIST FROM FAC DATA.
DELETED FAC 3 (RWY) DATA.
ADDED STAR TO CHART PUBLICATION.
DELETED REMARKS: KSDF R35L (FAC 3) USED TO ESTABLISH FIX COORDINATES AND
KSDF RWY 35L DISPLACED THRESHOLD COORDINATES: 380929.40N-0854421.37W.
ADDED REMARK: I-RLI (FAC 1) USED TO ESTABLISH FIX COORDINATES.
DELETED ESV DATA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/18/2011 **OFFICE:** AJV-352 **NAME:** BRIAN SHAFFER

APPROVED BY: **DATE:** 03/21/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: STYKR **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381753.66N/0853931.88W **TYPE:** WP

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

INFO ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/10/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: TUKKR **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 375348.71N/0851719.86W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 06/30/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: UNCKL **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 372852.88N/0844258.79W **TYPE:** WP, INT, DME

INFO ONLY

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	LOUISVILLE	IIU	VORTAC	H	131.05	132.05	55.38	55.38		8000	45000
2	BOWLING GREEN	BWG	VORTAC	H	065.68	067.68		89.16		8000	45000
3	LONDON	LOZ	VORTAC	L	315.95	312.95	39.56	39.56		3300	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IIU	VORTAC	R-131	56	8000	15300
BWG	VORTAC	R-066	90	8000	15100

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

REMARKS:
LONDON (FAC 3) USED TO ESTABLISH FIX COORDINATES
DO NOT CHART FAC 1 AND 2 ON ENROUTE LOW.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J6	1, 2				(US)
EN ROUTE	V310	2, 3				(US)
STAR	DARBY	1, 2, 3		KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED DIST FROM FAC TO FAC 1, 2, 3.
DELETED DME FROM FAC 2.
RAISED FAC 1 MRA FROM 3300 TO 8000 PER FC RESTRICTION.
DELETED ESV DATA FROM REMARKS SECTION.
ADDED ESV DATA FOR FAC 1 AND 2.
ADDED REMARK: DO NOT CHART FAC 1 AND 2 ON ENROUTE LOW.
ADDED REMARK: LONDON (FAC 3) USED TO ESTABLISH FIX COORDINATES.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/30/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UPSCO **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380145.69N/0854039.09W **TYPE:** WP, RADAR, INT, DME

INFO ONLY

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	I-JJM	LOC/DME		168.92	164.92	9.90	9.92		3000	5000
2	LOUISVILLE	IIU	VORTAC	H	225.91	226.91		6.50		3000	17500

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

REMARKS:
LOUISVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-JJM DME LAT/LONG: 381120.41N/0854351.64W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35R	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35 R (CAT II)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT III)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35R			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED REMARK: LOUISVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES.

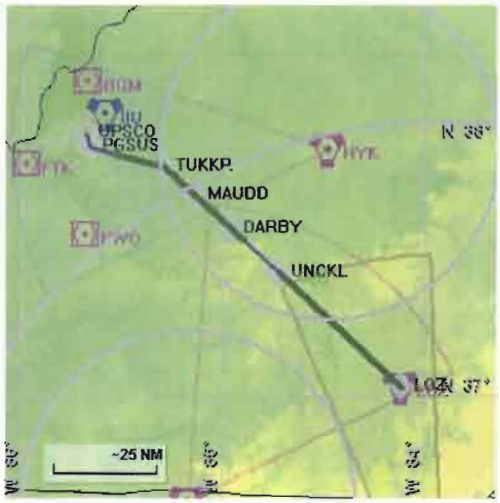
DEVELOPED BY: **DATE:** 04/06/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** 05/25/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 3 CHECKED



Name:	Dennis Osterhage
Project Name:	KSDF MAUDD2 STAR
Output File:	KSDF MAUDD2 STAR LOZ UPSCO 20120618_0825
Procedure Name:	KSDF MAUDD2
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/18/2012 8:25:51 AM
Input File:	KSDF MAUDD2 STAR LOZ UPSCO 20120618_0815.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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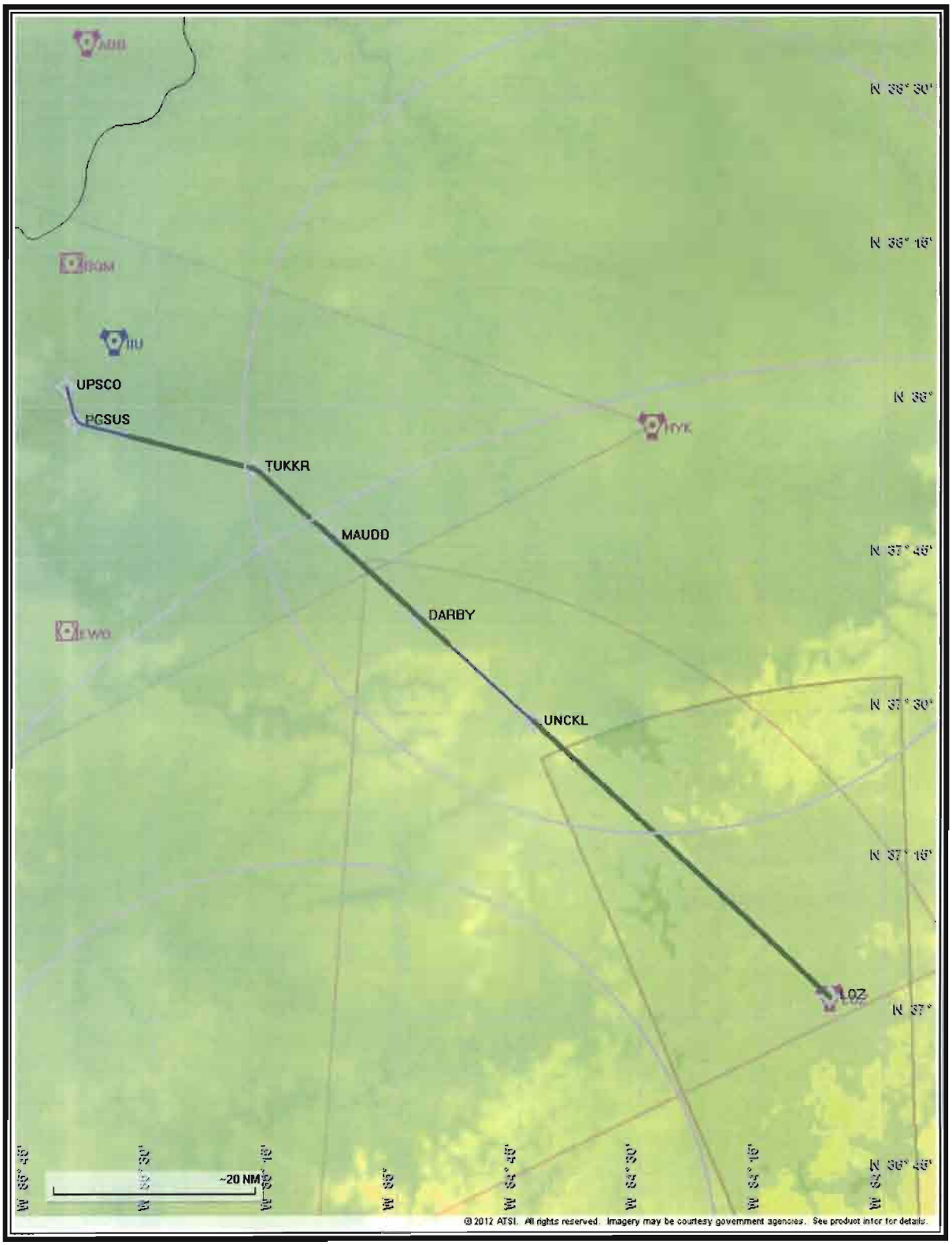
UPSCO
PCSUS
TUKKR
MAUDD
DARBY
UNCKL
LOZ
N 38° 30'
N 38° 15'
N 38°
N 37° 45'
N 37° 30'
N 37° 15'
N 37°
N 36° 45'
W 85° 45'
W 85° 30'
W 85° 15'
W 85°
W 84° 45'
W 84° 30'
W 84° 15'
W 84°
~20 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
LOZ	WP	N 37° 1' 59.34" W 84° 6' 36.27"	10000.0	Step	180.0	Fly By	TF
UNCKL	WP	N 37° 28' 52.88" W 84° 42' 58.79"	10000.0	Step	180.0	Fly By	TF
DARBY	WP	N 37° 39' 15.59" W 84° 57' 12.37"	10000.0	Step	180.0	Fly By	TF
MAUDD	WP	N 37° 47' 4.66" W 85° 7' 59.38"	10000.0	Step	180.0	Fly By	TF
TUKKR	WP	N 37° 53' 48.71" W 85° 17' 19.86"	6000.0	Step	180.0	Fly By	TF
PGSUS	WP	N 37° 58' 23.03" W 85° 39' 30.25"	4000.0	Step	180.0	Fly By	TF
UPSCO	WP	N 38° 1' 45.69" W 85° 40' 39.09"	3000.0	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:

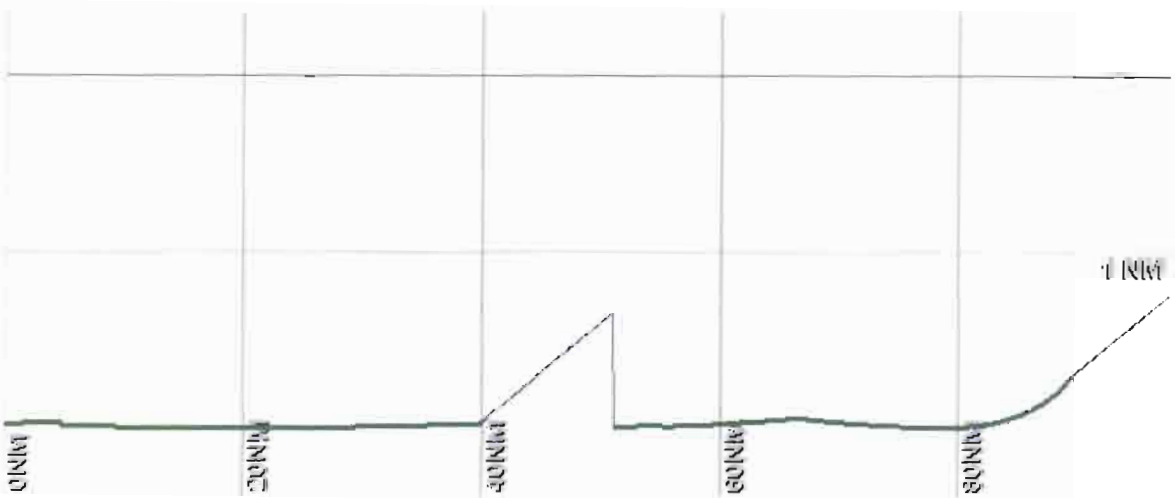
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 7

Maximum DME Error: 0.826 NM.

No Critical DMEs were found.

Available DMEs: LVT, VXV, LOZ, HYK, EWO, IIU, BQM, ABB



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L + ESV	User	NO	1.696	Enabled	45.8 %	45.8 %
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H + ESV	User	NO	0.826	Enabled	4.8 %	4.7 %
3	LOZ	N 37° 1' 59.34" W 84° 6' 36.27" W 3	L	Database	NO	1.162	Enabled	35.9 %	35.9 %
4	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L + ESV	User	NO	0.826	Enabled	10.6 %	10.6 %
5	EWO	N 37° 37' 54.52" W 85° 40' 33.16" E 1	L	Database	NO	1.100	Enabled	28.6 %	28.6 %
6	IIU	N 38° 6' 12.47" W 85° 34' 38.77" E 1	H	Database	NO	1.124	Enabled	29.3 %	29.3 %
7	BQM	N 38° 13' 48.79" W 85° 39' 53.08" W 1	T	Database	NO	0.864	Enabled	4.5 %	4.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0	VXV	LVT	LOZ	HYK	
39.6	EWO	LVT	LOZ	HYK	
54.9	EWO	LVT	IIU	HYK	
66.4	EWO	HYK	IIU		
75.9	EWO	HYK	IIU	BQM	
93.7	EWO	ABB	IIU	BQM	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 37° 29' 4.25" W 84° 43' 14.33"	N 37° 36' 37.65" W 84° 53' 35.23"	11.2
	VOR: HYK	Available from N 37° 29' 4.25" W 84° 43' 14.33" to N 37° 36' 37.65" W 84° 53' 35.23"	
	VOR: LOZ	Available from N 37° 29' 4.25" W 84° 43' 14.33" to N 37° 29' 8.76" W 84° 43' 20.50"	
	VOR: FFT	Available from N 37° 31' 26.44" W 84° 46' 28.74" to N 37° 36' 37.65" W 84° 53' 35.23"	
	VOR: EWO	Available from N 37° 34' 20.16" W 84° 50' 26.56" to N 37° 36' 37.65" W 84° 53' 35.23"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 37° 57' 3.98" W 85° 33' 4.26"	N 38° 1' 43.49" W 85° 40' 38.39"	8.6
	VOR: ABB	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	
	VOR: BQM	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	
	VOR: EWO	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	
	VOR: FFT	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	
	VOR: FTK	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	
	VOR: IIU	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	
	VOR: MYS	Available from N 37° 57' 3.98" W 85° 33' 4.26" to N 38° 1' 43.49" W 85° 40' 38.39"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L	1038.8	112.60	HYK	Used
		ESV: Bearing [True]: 243.0° to 290.0° Bearing [Mag]: 243.0° to 290.0°			Arc Distance: Out to 75.0 NM Altitude: 4500.0 to 23000.0 Ft.		
2	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L	1020.0	108.40	LVT	Used
		ESV: Bearing [True]: 4.0° to 64.0° Bearing [Mag]: 6.0° to 66.0°			Arc Distance: Out to 70.0 NM Altitude: 9500.0 to 24000.0 Ft.		
3	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 337.0° to -2.0° Bearing [Mag]: 340.0° to 1.0°			Arc Distance: Out to 99.0 NM Altitude: 9800.0 to 18000.0 Ft.		

ESVMS Information for DME: HYK

*Radial 1: 243.0 Magnetic° *Alt Minimum: 045 '00 ft (MSL) *Distance: 75 NML

*Radial 2: 290.0 Magnetic° *Alt Maximum: 230 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: LVT

*Radial 1: 006.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 70 NML

*Radial 2: 066.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

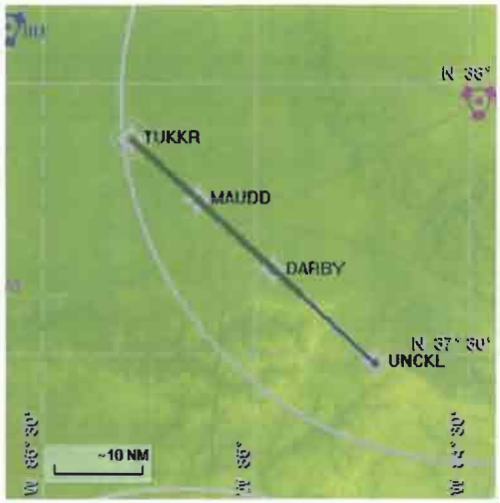
*Requirement: USER DEFINED

ESVMS Information for DME: VXV

*Radial 1: 340.0 Magnetic° *Alt Minimum: 098 '00 ft (MSL) *Distance: 99 NML

*Radial 2: 001.0 Magnetic° *Alt Maximum: 180 '00 ft (MSL)

*Requirement: USER DEFINED



Name:	Dennis Osterhage
Project Name:	KSDF MAUDD2 STAR
Output File:	KSDF MAUDD2 STAR UNCKL TUKKR 20120618_0832
Procedure Name:	KSDF MAUDD2
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/18/2012 8:32:43 AM
Input File:	KSDF MAUDD2 STAR UNCKL TUKKR 20120618_0827.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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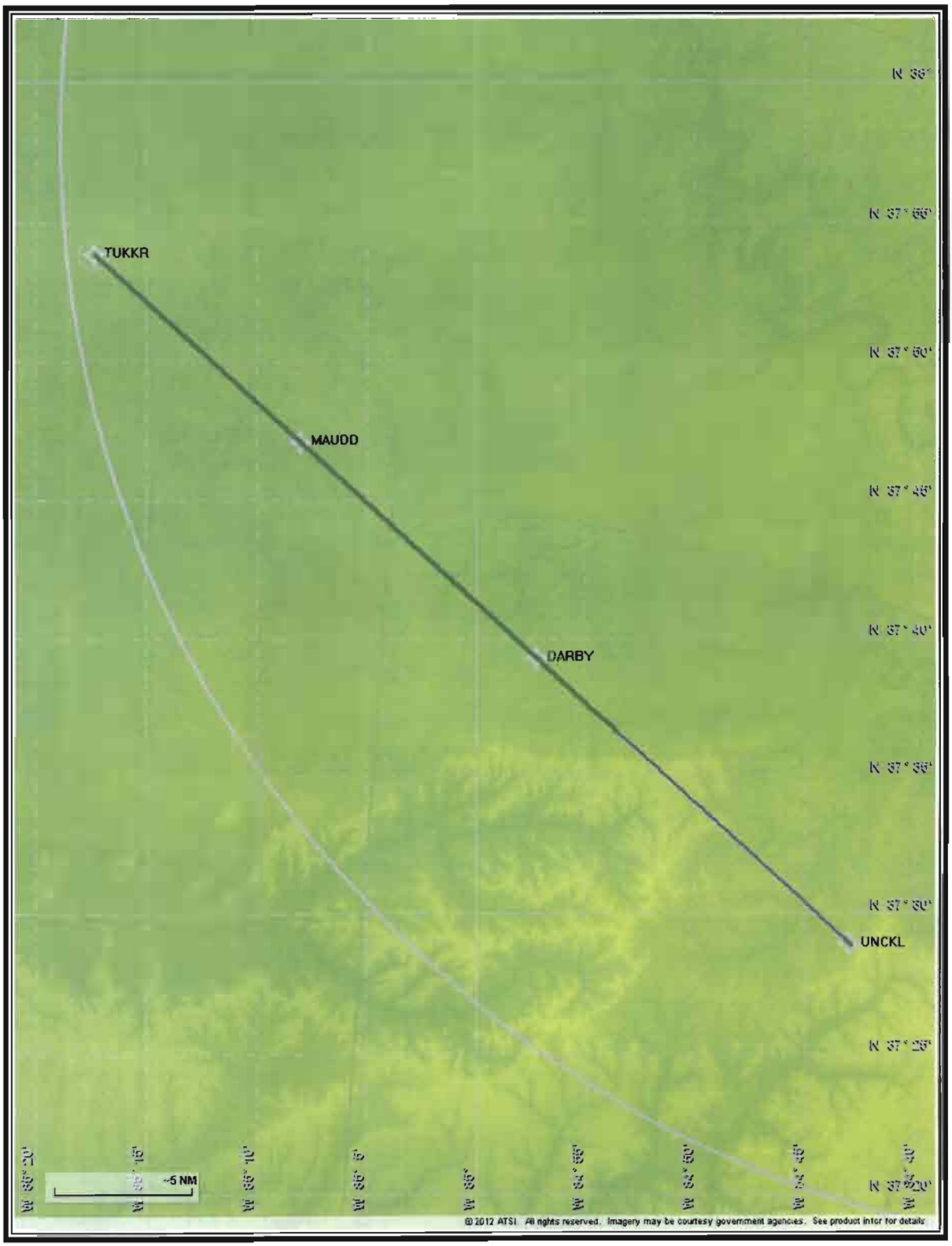
TUKKR
MAUDD
DARBY
UNCKL
~5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
UNCKL	WP	N 37° 28' 52.88" W 84° 42' 58.79"	10000.0	Step	180.0	Fly By	TF
DARBY	WP	N 37° 39' 15.59" W 84° 57' 12.37"	10000.0	Step	180.0	Fly By	TF
MAUDD	WP	N 37° 47' 4.66" W 85° 7' 59.38"	10000.0	Step	180.0	Fly By	TF
TUKKR	WP	N 37° 53' 48.71" W 85° 17' 19.86"	6000.0	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:

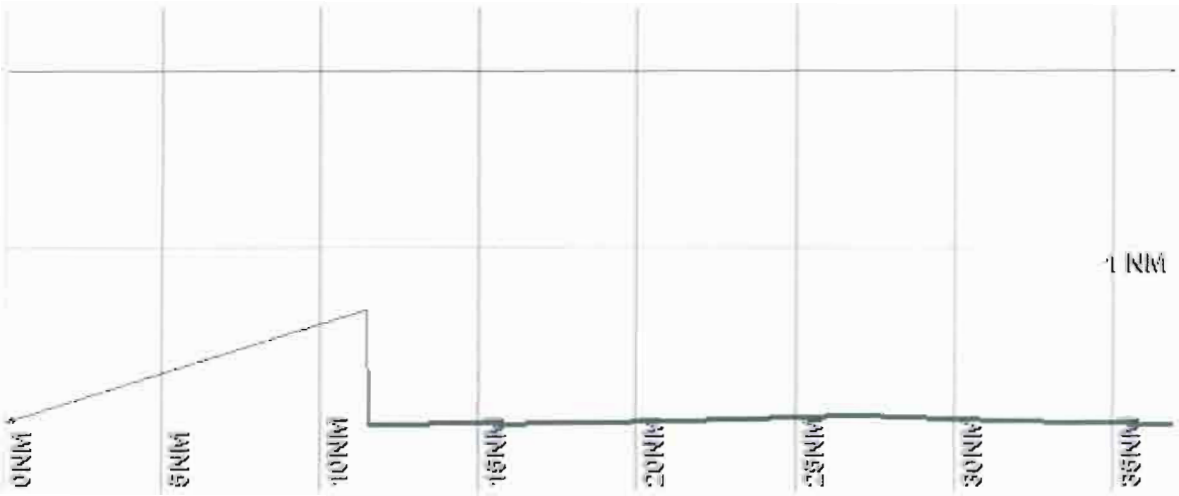
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 5

Maximum DME Error: 0.747 NM.

No Critical DMEs were found.

Available DMEs: HYK, LVT, LOZ, EWO, IIU



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L + ESV	User	NO	0.747	Enabled	14.4 %	14.3 %
2	LOZ	N 37° 1' 59.34" W 84° 6' 36.27" W 3	L	Database	NO	1.016	Enabled	0.8 %	0.6 %
3	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L + ESV	User	NO	0.747	Enabled	28.1 %	28.2 %
4	EWO	N 37° 37' 54.52" W 85° 40' 33.16" E 1	L	Database	NO	0.756	Enabled	41.1 %	41.1 %
5	IIU	N 38° 6' 12.47" W 85° 34' 38.77" E 1	H	Database	NO	1.022	Enabled	54.9 %	55.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0	LVT	HYK	EWO	LOZ	
15.3	LVT	HYK	EWO	IIU	
26.9	IIU	HYK	EWO		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 37° 29' 4.23" W 84° 43' 14.29"	N 37° 36' 37.63" W 84° 53' 35.19"	11.2
	VOR: HYK	Available from N 37° 29' 4.23" W 84° 43' 14.29" to N 37° 36' 37.63" W 84° 53' 35.19"	
	VOR: LOZ	Available from N 37° 29' 4.23" W 84° 43' 14.29" to N 37° 29' 8.74" W 84° 43' 20.46"	
	VOR: FFT	Available from N 37° 31' 26.51" W 84° 46' 28.73" to N 37° 36' 37.63" W 84° 53' 35.19"	
	VOR: EWO	Available from N 37° 34' 20.14" W 84° 50' 26.52" to N 37° 36' 37.63" W 84° 53' 35.19"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L	1038.8	112.60	HYK	Used
		ESV: Bearing [True]: 243.0° to 290.0° Bearing [Mag]: 243.0° to 290.0°			Arc Distance: Out to 75.0 NM Altitude: 4500.0 to 23000.0 Ft.		
2	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L	1020.0	108.40	LVT	Used
		ESV: Bearing [True]: 4.0° to 64.0° Bearing [Mag]: 6.0° to 66.0°			Arc Distance: Out to 70.0 NM Altitude: 9500.0 to 24000.0 Ft.		

ESVMS Information for DME: HYK

*Radial 1: 243.0 Magnetic° *Alt Minimum: 045 '00 ft (MSL) *Distance: 75 NML

*Radial 2: 290.0 Magnetic° *Alt Maximum: 230 '00 ft (MSL)

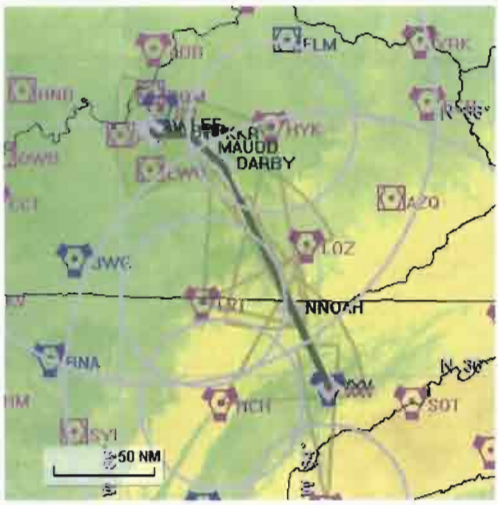
*Requirement: USER DEFINED

ESVMS Information for DME: LVT

*Radial 1: 006.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 70 NML

*Radial 2: 066.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED



Name:	Dennis Osterhage
Project Name:	KSDF MAUDD2 STAR
Output File:	KSDF MAUDD2 STAR VXV AWLEE 20120618_0758
Procedure Name:	KSDF MAUDD2
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/18/2012 7:58:42 AM
Input File:	KSDF MAUDD2 STAR VXV AWLEE 20120618_0736.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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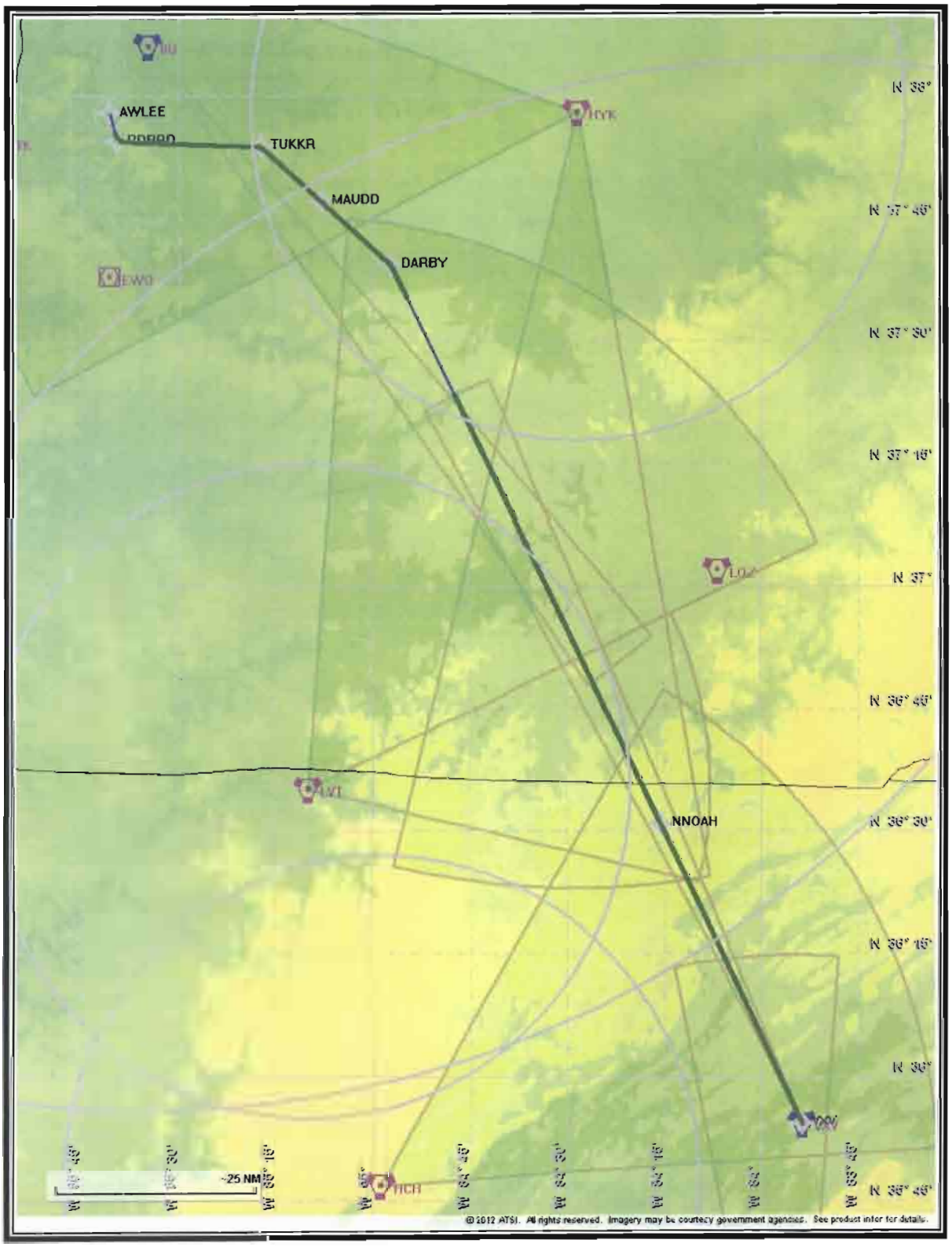
AWLEE
TUKKR
MAUDD
DARBY
NNOAH
N 38°
N 37° 45'
N 37° 30'
N 37° 15'
N 37°
N 36° 45'
N 36° 30'
N 36° 15'
N 36°
N 35° 45'
~25 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
VXV	WP	N 35° 54' 17.42" W 83° 53' 41.02"	18000.0	Step	240.0	Fly By	TF
NNOAH	WP	N 36° 30' 38.43" W 84° 15' 26.77"	18000.0	Step	240.0	Fly By	TF
DARBY	WP	N 37° 39' 15.59" W 84° 57' 12.37"	10000.0	Step	180.0	Fly By	TF
MAUDD	WP	N 37° 47' 4.66" W 85° 7' 59.38"	10000.0	Step	180.0	Fly By	TF
TUKKR	WP	N 37° 53' 48.71" W 85° 17' 19.86"	6000.0	Step	180.0	Fly By	TF
RDBRD	WP	N 37° 54' 26.53" W 85° 39' 24.36"	5000.0	Step	180.0	Fly By	TF
AWLEE	WP	N 37° 57' 51.97" W 85° 40' 31.76"	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:

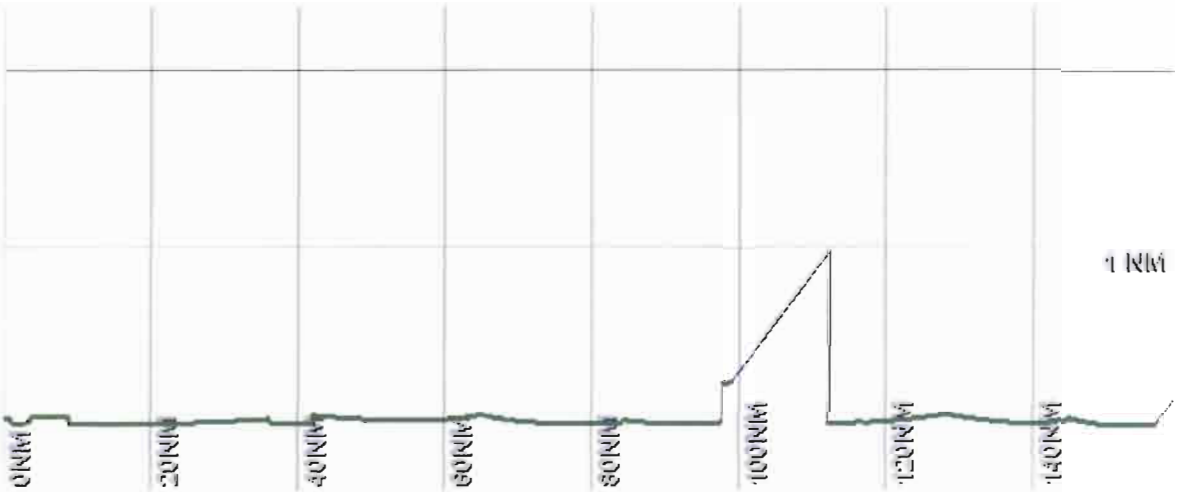
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 10

Maximum DME Error: 0.983 NM.

No Critical DMEs were found.

Available DMEs: HCH, GQO, ODF, HRS, VXV, LOZ, LVT, HYK, EWO, IIU, BQM, ABB



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	HCH	N 35° 46' 51.65" W 84° 58' 42.43" W 2	L + ESV	User	NO	0.983	Enabled	18.9 %	22.7 %
2	ODF	N 34° 41' 45.14" W 83° 17' 51.58" E 0	H	Database	NO	0.983	Enabled	3.2 %	3.8 %
3	HRS	N 34° 56' 34.82" W 83° 54' 56.45" E 0	L + ESV	User	NO	0.983	Enabled	1.4 %	1.7 %
4	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H + ESV	User	NO	0.870	Enabled	15.2 %	18.0 %
5	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L + ESV	User	NO	1.399	Enabled	31.0 %	30.9 %
6	LOZ	N 37° 1' 59.34" W 84° 6' 36.27" W 3	L	Database	NO	1.243	Enabled	25.3 %	24.2 %
7	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L + ESV	User	NO	1.121	Enabled	42.0 %	40.3 %
8	EWO	N 37° 37' 54.52" W 85° 40' 33.16" E 1	L	Database	NO	1.061	Enabled	15.3 %	14.2 %
9	IIU	N 38° 6' 12.47" W 85° 34' 38.77" E 1	H + ESV	User	NO	1.195	Enabled	23.3 %	21.6 %
10	BQM	N 38° 13' 48.79" W 85° 39' 53.08" W 1	T	Database	NO	0.983	Enabled	2.9 %	2.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	HCH	ODF	GQO	HRS	VXV	
30.1	HCH	HYK	LVT	LOZ	VXV	GQO
40.3	HCH	HYK	LVT	LOZ	VXV	
105.9	EWO	HYK	LVT			
116.0	EWO	HYK	LVT	IIU		
128.2	EWO	HYK	IIU			
137.5	EWO	HYK	IIU	BQM		
154.4	EWO	HYK	IIU	BQM	ABB	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 37° 22' 5.72" W 84° 46' 37.54"	N 37° 22' 11.71" W 84° 46' 41.22"	0.1
	VOR: HYK	Available from N 37° 22' 5.72" W 84° 46' 37.54" to N 37° 22' 11.71" W 84° 46' 41.22"	
	VOR: LOZ	Available from N 37° 22' 5.72" W 84° 46' 37.54" to N 37° 22' 11.71" W 84° 46' 41.22"	
2	N 37° 23' 23.64" W 84° 47' 25.38"	N 37° 35' 13.67" W 84° 54' 42.74"	13.2
	VOR: HYK	Available from N 37° 23' 23.64" W 84° 47' 25.38" to N 37° 35' 13.67" W 84° 54' 42.74"	
	VOR: LOZ	Available from N 37° 23' 23.64" W 84° 47' 25.38" to N 37° 24' 26.57" W 84° 48' 4.04"	
	VOR: EWO	Available from N 37° 29' 44.18" W 84° 51' 19.45" to N 37° 35' 13.67" W 84° 54' 42.74"	
	VOR: FFT	Available from N 37° 30' 59.07" W 84° 52' 5.61" to N 37° 35' 13.67" W 84° 54' 42.74"	
3	N 37° 55' 38.58" W 85° 39' 48.53"	N 37° 57' 51.10" W 85° 40' 31.51"	2.3
	VOR: ABB	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	
	VOR: BQM	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	
	VOR: EWO	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	
	VOR: FFT	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	
	VOR: FTK	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	
	VOR: IIU	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	
	VOR: MYS	Available from N 37° 55' 38.58" W 85° 39' 48.53" to N 37° 57' 51.10" W 85° 40' 31.51"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	HCH	N 35° 46' 51.65" W 84° 58' 42.43" W 2	L	3040.0	117.60	HCH	Used
		ESV: Bearing [True]: 30.0° to 86.0° Bearing [Mag]: 32.0° to 88.0°			Arc Distance: Out to 70.0 NM Altitude: 9500.0 to 24000.0 Ft.		
2	HRS	N 34° 56' 34.82" W 83° 54' 56.45" E 0	L	3660.0	109.80	HRS	Used
		ESV: Bearing [True]: 349.0° to 4.0° Bearing [Mag]: 349.0° to 4.0°			Arc Distance: Out to 78.0 NM Altitude: 9500.0 to 24000.0 Ft.		
3	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L	1038.8	112.60	HYK	Used
		ESV: Bearing [True]: 170.0° to 194.0° Bearing [Mag]: 170.0° to 194.0°			Arc Distance: Out to 95.0 NM Altitude: 9500.0 to 24000.0 Ft.		
		ESV: Bearing [True]: 243.0° to 290.0° Bearing [Mag]: 243.0° to 290.0°			Arc Distance: Out to 75.0 NM Altitude: 4500.0 to 23000.0 Ft.		
4	IIU	N 38° 6' 12.47" W 85° 34' 38.77" E 1	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 139.0° to 145.0° Bearing [Mag]: 138.0° to 144.0°			Arc Distance: Out to 95.0 NM Altitude: 9500.0 to 16000.0 Ft.		
5	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L	1020.0	108.40	LVT	Used
		ESV: Bearing [True]: 4.0° to 64.0° Bearing [Mag]: 6.0° to 66.0°			Arc Distance: Out to 70.0 NM Altitude: 9500.0 to 24000.0 Ft.		
		ESV: Bearing [True]: 64.0° to 103.0° Bearing [Mag]: 66.0° to 105.0°			Arc Distance: Out to 50.0 NM Altitude: 9500.0 to 24000.0 Ft.		
6	VXV	N 35° 54' 17.42" W 83° 53' 41.02" W 3	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 332.0° to 337.0° Bearing [Mag]: 335.0° to 340.0°			Arc Distance: Out to 99.0 NM Altitude: 9800.0 to 18000.0 Ft.		

ESVMS Information for DME: HCH

*Radial 1: 032.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 70 NML

*Radial 2: 088.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: HRS

*Radial 1: 349.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 78 NML

*Radial 2: 004.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: HYK

*Radial 1: 170.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 95 NML

*Radial 2: 194.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED

*Radial 1: 243.0 Magnetic° *Alt Minimum: 045 '00 ft (MSL) *Distance: 75 NML

*Radial 2: 290.0 Magnetic° *Alt Maximum: 230 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: IIU

*Radial 1: 138.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 95 NML

*Radial 2: 144.0 Magnetic° *Alt Maximum: 160 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: LVT

*Radial 1: 006.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 70 NML

*Radial 2: 066.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED

---

*Radial 1: 066.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 50 NML

*Radial 2: 105.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

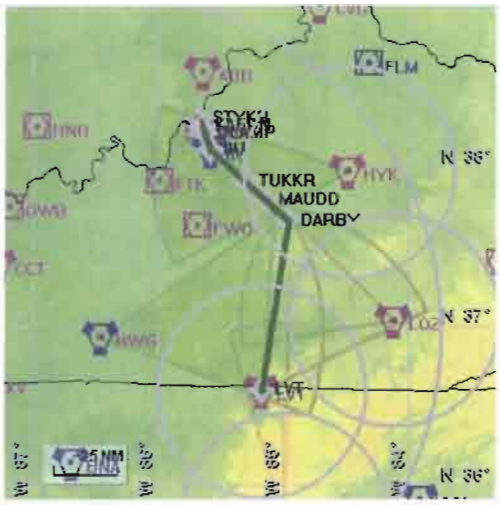
*Requirement: USER DEFINED

ESVMS Information for DME: VXV

*Radial 1: 335.0 Magnetic° *Alt Minimum: 098 '00 ft (MSL) *Distance: 99 NML

*Radial 2: 340.0 Magnetic° *Alt Maximum: 180 '00 ft (MSL)

*Requirement: USER DEFINED



Name:	Dennis Osterhage
Project Name:	KSDF MAUDD2 STAR
Output File:	KSDF MAUDD2 STAR LVT STYKR 20120618_0813
Procedure Name:	KSDF MAUDD2
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/18/2012 8:13:07 AM
Input File:	KSDF MAUDD2 STAR LVT STYKR 20120618_0801.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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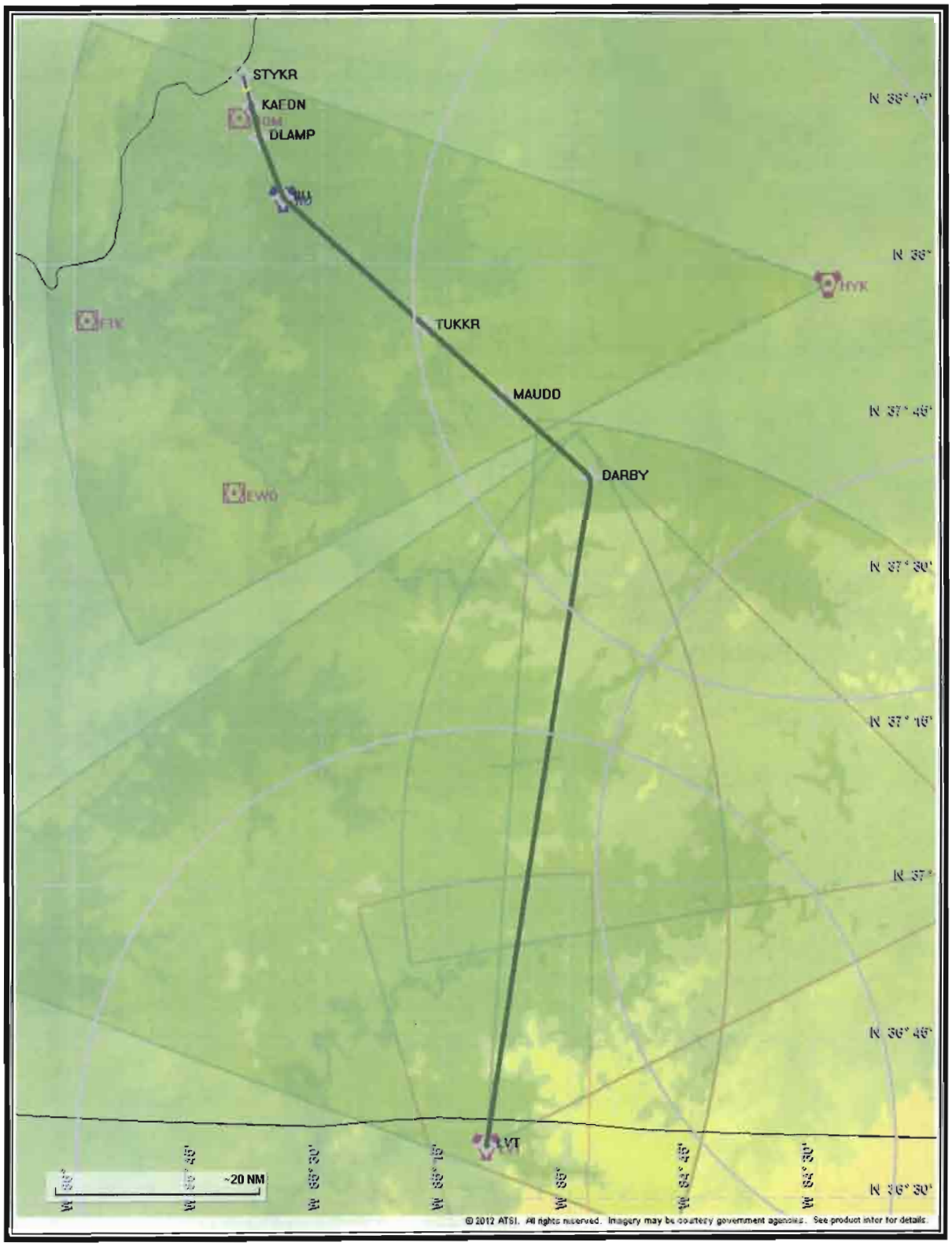
STYKR
KAEDN
DLAMP
TUKKR
MAUDD
DARBY
LVT
~20 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
LVT	WP	N 36° 35' 4.23" W 85° 9' 59.84"	10000.0	Step	180.0	Fly By	TF
DARBY	WP	N 37° 39' 15.59" W 84° 57' 12.37"	10000.0	Step	180.0	Fly By	TF
MAUDD	WP	N 37° 47' 4.66" W 85° 7' 59.38"	10000.0	Step	180.0	Fly By	TF
TUKKR	WP	N 37° 53' 48.71" W 85° 17' 19.86"	6000.0	Step	180.0	Fly By	TF
IIU	WP	N 38° 6' 12.47" W 85° 34' 38.77"	6000.0	Step	180.0	Fly By	TF
DLAMP	WP	N 38° 12' 1.95" W 85° 37' 29.40"	6000.0	Step	180.0	Fly By	TF
KAEDN	WP	N 38° 14' 59.68" W 85° 38' 29.99"	5000.0	Step	180.0	Fly By	TF
STYKR	WP	N 38° 17' 53.66" W 85° 39' 31.88"	5000.0	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:

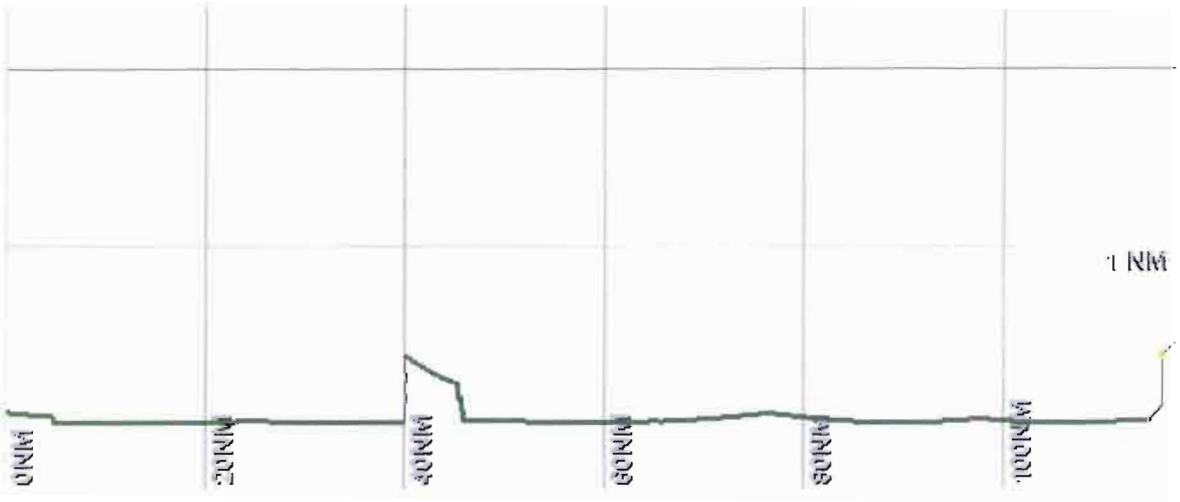
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: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

Total Number of DMEs Used: 9

Maximum DME Error: 0.604 NM.

No Critical DMEs were found.

Available DMEs: BWG, HCH, LVT, LOZ, EWO, HYK, IIU, BQM, ABB



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BWG	N 36° 55' 43.47" W 86° 26' 36.36" E 2	H + ESV	User	NO	1.382	Enabled	22.6 %	22.5 %
2	HCH	N 35° 46' 51.65" W 84° 58' 42.43" W 2	L + ESV	User	NO	0.742	Enabled	8.9 %	8.9 %
3	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L + ESV	User	NO	0.887	Enabled	41.5 %	41.5 %
4	LOZ	N 37° 1' 59.34" W 84° 6' 36.27" W 3	L + ESV	User	NO	0.604	Enabled	24.3 %	24.3 %
5	EWO	N 37° 37' 54.52" W 85° 40' 33.16" E 1	L	Database	NO	0.604	Enabled	45.8 %	45.8 %
6	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L + ESV	User	NO	0.604	Enabled	24.8 %	24.8 %
7	IIU	N 38° 6' 12.47" W 85° 34' 38.77" E 1	H	Database	NO	1.031	Enabled	26.0 %	26.0 %
8	ABB	N 38° 35' 19.82" W 85° 38' 9.57" E 1	L	Database	NO	0.551	Enabled	1.3 %	1.3 %
9	BQM	N 38° 13' 48.79" W 85° 39' 53.08" W 1	T	Database	NO	0.551	Enabled	0.0 %	0.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	HCH	BWG	LVT	LOZ		
25.0	EWO	BWG	LVT	LOZ	HYK	
64.1	EWO	IIU	LVT	LOZ	HYK	
76.4	EWO	IIU	HYK			
86.4	EWO	IIU	HYK	BQM	ABB	
104.3	EWO	IIU	HYK	BQM	ABB	
110.8	EWO	IIU	HYK	ABB		
114.1	EWO	IIU	HYK	ABB	BQM	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 37° 14' 27.77" W 85° 2' 11.52"	N 37° 14' 34.36" W 85° 2' 10.20"	0.1
	VOR: EWO	Available from N 37° 14' 27.77" W 85° 2' 11.52" to N 37° 14' 34.36" W 85° 2' 10.20"	
	VOR: LVT	Available from N 37° 14' 27.77" W 85° 2' 11.52" to N 37° 14' 34.36" W 85° 2' 10.20"	
2	N 38° 15' 22.08" W 85° 38' 37.85"	N 38° 16' 42.40" W 85° 39' 6.46"	1.4
	VOR: ABB	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	
	VOR: BQM	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	
	VOR: EWO	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	
	VOR: FFT	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	
	VOR: FTK	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	
	VOR: IIU	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	
	VOR: MYS	Available from N 38° 15' 22.08" W 85° 38' 37.85" to N 38° 16' 42.40" W 85° 39' 6.46"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 38° 16' 48.82" W 85° 39' 8.75"	N 38° 17' 53.07" W 85° 39' 31.66"	1.1
	VOR: ABB	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	
	VOR: BQM	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	
	VOR: EWO	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	
	VOR: FFT	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	
	VOR: FTK	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	
	VOR: IIU	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	
	VOR: MYS	Available from N 38° 16' 48.82" W 85° 39' 8.75" to N 38° 17' 53.07" W 85° 39' 31.66"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	BWG	N 36° 55' 43.47" W 86° 26' 36.36" E 2	H	565.0	117.90	BWG	Used
		ESV: Bearing [True]: 55.0° to 110.0° Bearing [Mag]: 53.0° to 108.0°			Arc Distance: Out to 85.0 NM Altitude: 9500.0 to 16000.0 Ft.		
2	HCH	N 35° 46' 51.65" W 84° 58' 42.43" W 2	L	3040.0	117.60	HCH	Used
		ESV: Bearing [True]: 343.0° to 1.0° Bearing [Mag]: 345.0° to 3.0°			Arc Distance: Out to 74.0 NM Altitude: 9500.0 to 24000.0 Ft.		
3	HYK	N 37° 57' 58.94" W 84° 28' 20.98" E 0	L	1038.8	112.60	HYK	Used
		ESV: Bearing [True]: 243.0° to 290.0° Bearing [Mag]: 243.0° to 290.0°			Arc Distance: Out to 75.0 NM Altitude: 4500.0 to 23000.0 Ft.		
4	LOZ	N 37° 1' 59.34" W 84° 6' 36.27" W 3	L	1245.1	116.10	LOZ	Used
		ESV: Bearing [True]: 261.0° to 315.0° Bearing [Mag]: 264.0° to 318.0°			Arc Distance: Out to 59.0 NM Altitude: 9500.0 to 24000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	LVT	N 36° 35' 4.24" W 85° 9' 59.84" W 2	L	1020.0	108.40	LVT	Used

ESV: Bearing [True]: 4.0° to 64.0°
Bearing [Mag]: 6.0° to 66.0°

Arc Distance: Out to 70.0 NM
Altitude: 9500.0 to 24000.0 Ft.

ESVMS Information for DME: BWG

*Radial 1: 053.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 85 NML

*Radial 2: 108.0 Magnetic° *Alt Maximum: 160 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: HCH

*Radial 1: 345.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 74 NML

*Radial 2: 003.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: HYK

*Radial 1: 243.0 Magnetic° *Alt Minimum: 045 '00 ft (MSL) *Distance: 75 NML

*Radial 2: 290.0 Magnetic° *Alt Maximum: 230 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: LOZ

*Radial 1: 264.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 59 NML

*Radial 2: 318.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED

ESVMS Information for DME: LVT

*Radial 1: 006.0 Magnetic° *Alt Minimum: 095 '00 ft (MSL) *Distance: 70 NML

*Radial 2: 066.0 Magnetic° *Alt Maximum: 240 '00 ft (MSL)

*Requirement: USER DEFINED