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
CENTRALIA	ENL.DAMEN1	ENL VORTAC	ZARDA	95.97/45.00	FL180			
		ZARDA	PENTO	96.55/43.45	10000			
		PENTO	***SACKO***	101.95/26.99	10000			
POCKET CITY	PXV.DAMEN1	PXV VORTAC	***SACKO***	70.84/52.99	10000			
TERRE HAUTE	TTH.DAMEN1	***TTH VORTAC***	***SACKO***	164.40/77.82	10000			

(2) Arrival Route Description: FROM OVER SACKO ON TRACK 102.26/10.01 NM TO CHERI, CROSS CHERI AT/ABOVE 11000 (MEA 6000), THEN ON TRACK 102.42/20.53 NM TO DAMEN (MEA 6000), THENCE ON ASSIGNED RUNWAY TRANSITION.

LANDING RWY 17L/17R: FROM OVER DAMEN ON TRACK 114.52/7.12 NM TO CAESR (MEA 6000), THEN ON TRACK 076.60/5.00 NM TO HAUGN, CROSS HAUGN AT/ABOVE 6000(MEA 6000), THEN ON TRACK 346.86/3.30 NM TO COBLER(MEA 4000), THEN ON TRACK 348.52/3.01 NM TO YUNDV, CROSS YUNDV AT 4000 (MEA 4000), THEN ON TRACK 348.52/5.00 NM (MEA 4000). EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
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 TO TURBOJET AIRCRAFT ONLY.
LANDING RWY 29: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER DAMEN.
CROSS CHERI AT/ABOVE 11000. CROSS HAUGN AT/ABOVE 6000 AT 210 KTS. CROSS BNETT AT 5000. CROSS YUNDV AT 4000.

(4) Fixes and/or Holding Patterns: CHART HOLDING AT CHERI (HOLD W, LT, 102.42 INBOUND, 10 NM LEGS).
CHART BRBON, LAANG LOM AND SCARY AS STAND ALONE FIXES.
CHART IIU VORTAC.

(5) Communications: LOUISVILLE APP CON
STANDIFORD ATIS

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

(12) Airports Served

Airport Name	City/State
LOUISVILLE INTL-STANDIFORD FIELD (KSDF)	LOUISVILLE, KY

(13) Lost Communications Procedure: LANDING RWY 17L/17R: TRACK TO YUNDV, CROSS YUNDV AT 4000, THEN PROCEED DIRECT SCARY, AT SCARY FLY HEADING 080, MAINTAIN 4000: INTERCEPT AND EXECUTE ILS OR LOC RWY 17R APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 35L/35R: TRACK TO BNETT, CROSS BNETT AT 5000, THEN PROCEED DIRECT BRBON, MAINTAIN 5000, EXECUTE ILS OR LOC RWY 35L APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 29: TRACK TO BNETT, CROSS BNETT AT 5000, THEN PROCEED DIRECT LAANG LOM, MAINTAIN 5000, EXECUTE LOC RWY 29 APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

(14) Remarks: DEPICT SACKO OFFSET FROM YUNDV FM LEG.
TTH VORTAC AND SACKO FIX DEPICTED AT NFDC COORDINATES. TARGETS DATABASE GIVES INCORRECT AVNIS COORDINATES.

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

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

(16) Continuation:

(2) Arrival Route Description:

LANDING RWY 35L/35R: FROM OVER DAMEN ON TRACK 098.95/11.48 NM TO HAUGN, CROSS HAUGN AT/ABOVE 6000 (MEA 6000), THEN ON TRACK 169.07/3.40 NM TO STUGZ (MEA 5000), THEN ON TRACK 171.16/2.88 NM TO BNETT, CROSS BNETT AT 5000 (MEA 5000), THEN ON TRACK 158.00/5.00 NM (MEA 5000). EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 29: FROM OVER DAMEN ON TRACK 098.95/11.48 NM TO HAUGN, CROSS HAUGN AT/ABOVE 6000 (MEA 6000), THEN ON TRACK 169.07/3.40 NM TO STUGZ (MEA 5000), THEN ON TRACK 171.16/2.88 NM TO BNETT, CROSS BNETT AT 5000 (MEA 5000), THEN ON TRACK 158.00/5.00 NM (MEA 5000). EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER DAMEN.

(17) Changes: ORIGINAL

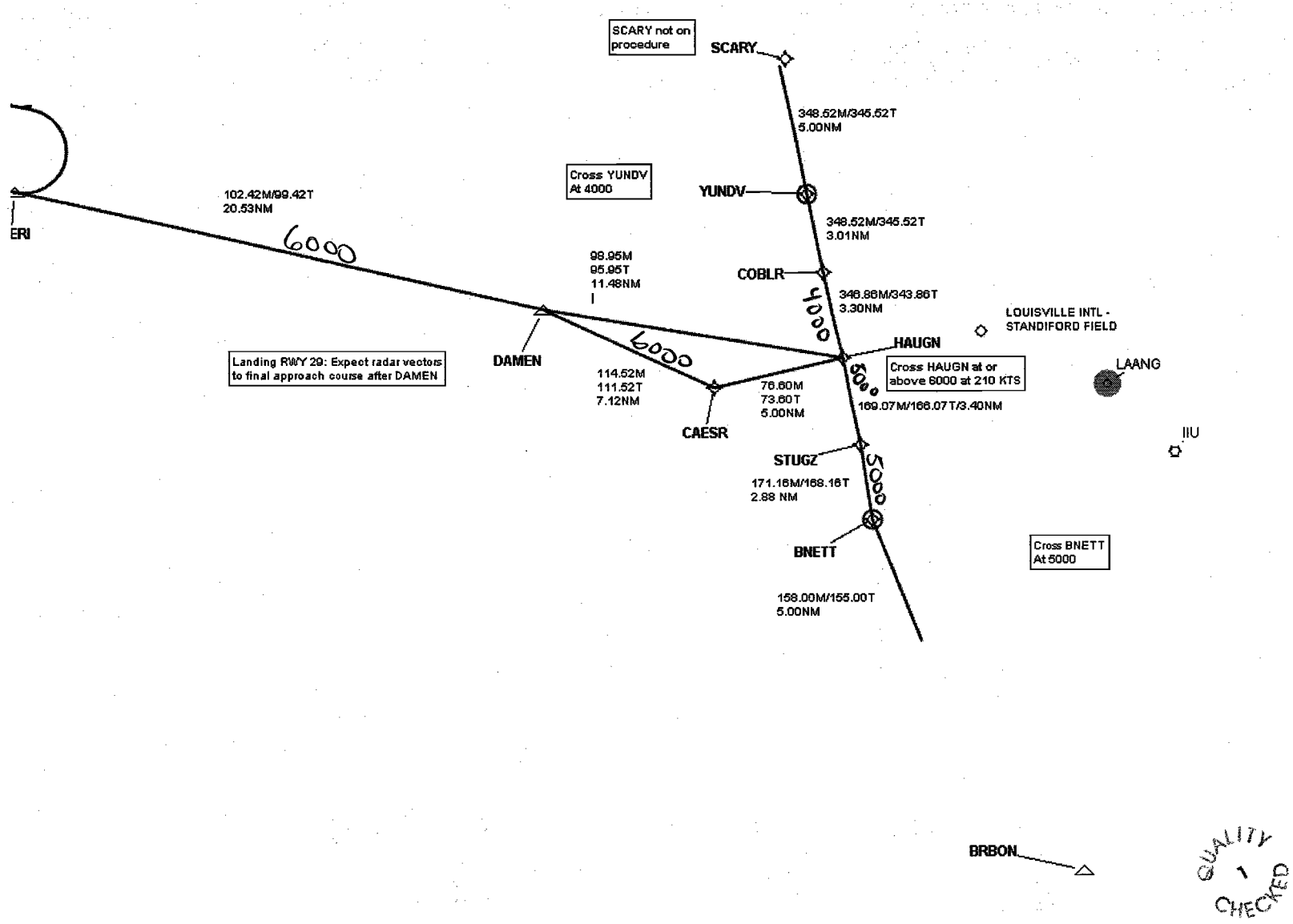
(18) Reasons for Changes: ATC REQUEST

	Name (Typed and Signed), Title and Organization		DATE
Developed By	THOMAS DURY, SUPPORT MANAGER FOR OPERATIONS, INDIANAPOLIS ARTCC		
Approved	**NFPG**		
	Reg. ATD		

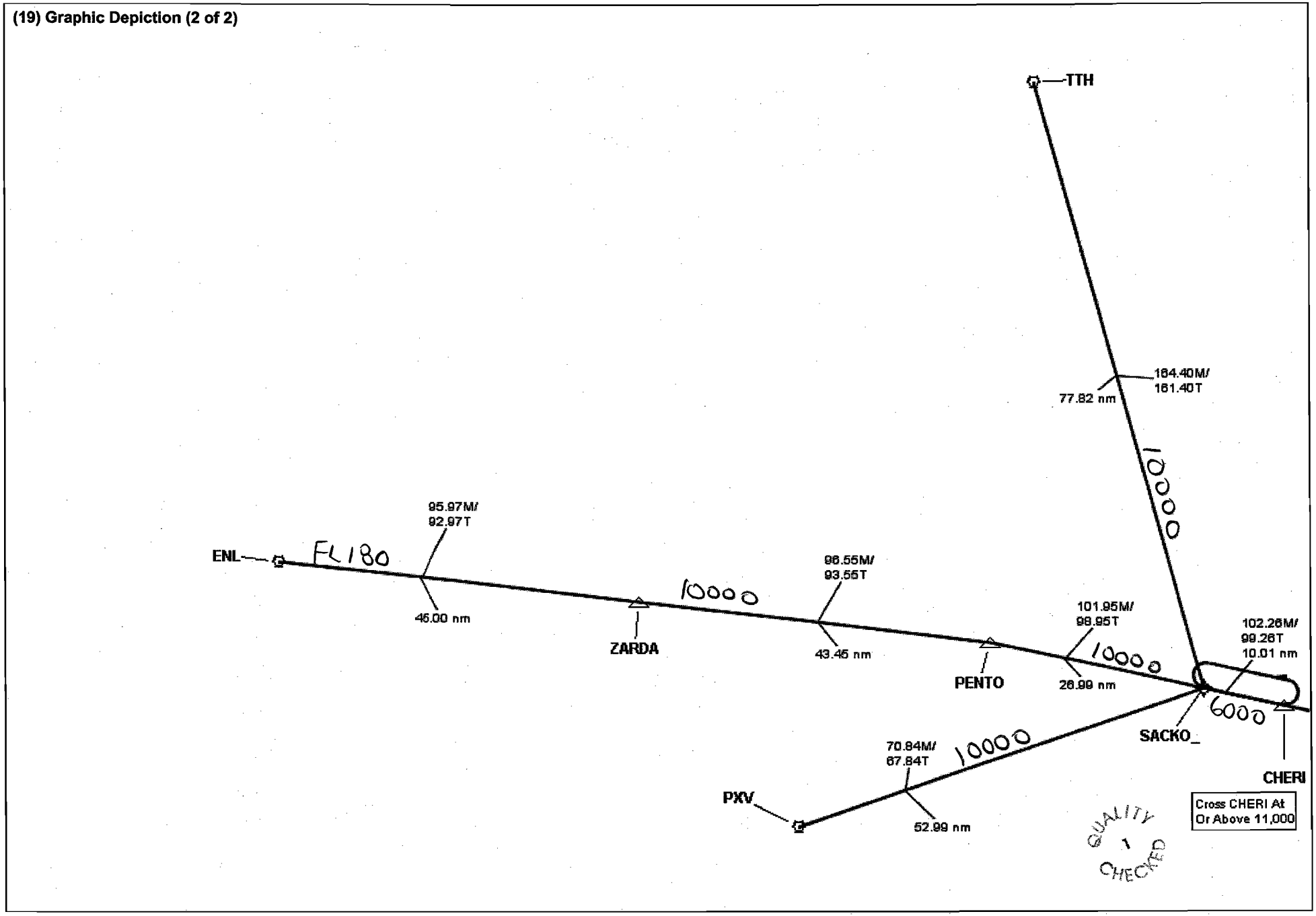
QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

(19) Graphic Depiction (1 of 2)



(19) Graphic Depiction (2 of 2)



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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
En Route Transition									
ENL VORTAC	382512.00N / 0890932.39W	Y		IF					ENL.DAMEN1
ZARDA	382238.06N / 0881223.33W	Y	FB	TF	092.97	45.00			
PENTO	381943.31N / 0871716.73W	Y	FB	TF	093.55	43.45			
SACKO	381526.16N / 0864325.83W	Y	FB	TF	098.95	26.99			
En Route Transition									
PXV VORTAC	375541.95N / 0874544.56W	Y		IF					PXV.DAMEN1
SACKO	381526.16N / 0864325.83W	Y	FB	TF	067.84	52.99			
En Route Transition									
TTH VORTAC	392920.19N / 0871456.47W	Y		IF					TTH.DAMEN1
SACKO	381526.16N / 0864325.83W	Y	FB	TF	161.40	77.82			
Common Route									
SACKO	381526.16N / 0864325.83W	Y		IF					

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

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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
CHERI	381348.75N / 0863053.65W	Y	FB	TF	099.26	10.01	AT/ABOVE 11000		HOLDING - LEFT TURNS
DAMEN	381024.14N / 0860513.01W	Y	FB	TF	099.42	20.53			
Runway Transition									
DAMEN	381024.14N / 0860513.01W	Y		IF					
CAESR	380747.09N / 0855649.65W	Y	FB	TF	111.52	07.12			
HAUGN	380911.74N / 0855044.80W	Y	FB	TF	073.60	05.00	AT/ABOVE 6000	AT 210K	
COBLR	381222.09N / 0855154.62W	Y	FB	TF	343.86	03.30			
YUNDV	381517.14N / 0855251.95W	Y	FO	TF	345.52	03.01	AT 4000		
RW17L				FM	345.52	05.00			
Runway Transition									
DAMEN	381024.14N / 0860513.01W	Y		IF					
CAESR	380747.09N / 0855649.65W	Y	FB	TF	111.52	07.12			
HAUGN	380911.74N / 0855044.80W	Y	FB	TF	073.60	05.00	AT/ABOVE 6000	AT 210K	
COBLR	381222.09N / 0855154.62W	Y	FB	TF	343.86	03.30			

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

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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
YUNDV	381517.14N / 0855251.95W	Y	FO	TF	345.52	03.01	AT 4000		
RW17R				FM	345.52	05.00			
Runway Transition									
DAMEN	381024.14N / 0860513.01W	Y		IF					
HAUGN	380911.74N / 0855044.80W	Y	FB	TF	095.95	11.48	AT/ABOVE 6000	AT 210K	
STUGZ	380553.50N / 0854942.56W	Y	FB	TF	166.07	03.40			
BNETT	380304.00N / 0854857.63W	Y	FO	TF	168.16	02.88	AT 5000		
RW29				FM	155.00	05.00			
Runway Transition									
DAMEN	381024.14N / 0860513.01W	Y		IF					
HAUGN	380911.74N / 0855044.80W	Y	FB	TF	095.95	11.48	AT/ABOVE 6000	AT 210K	
STUGZ	380553.50N / 0854942.56W	Y	FB	TF	166.07	03.40			
BNETT	380304.00N / 0854857.63W	Y	FO	TF	168.16	02.88	AT 5000		
RW35L				FM	155.00	05.00			

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

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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
Runway Transition									
DAMEN	381024.14N / 0860513.01W	Y		IF					
HAUGN	380911.74N / 0855044.80W	Y	FB	TF	095.95	11.48	AT/ABOVE 6000	AT 210K	
STUGZ	380553.50N / 0854942.56W	Y	FB	TF	166.07	03.40			
BNETT	380304.00N / 0854857.63W	Y	FO	TF	168.16	02.88	AT 5000		
RW35R				FM	155.00	05.00			DUAL
									CHECK

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

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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        ENL   K5011500VTHA N38251200W089093239    N38251200W089093239E0040005462     NARCENTRALIA
        SUSAD        LOZ   K5011610VTLA N37015934W084063627    N37015934W084063627W0030012451     NARLONDON
        SUSAD        PXV   K5011330VTHA N37554195W087454456    N37554195W087454456E0030003842     NARPOCKET CITY
        SUSAD        TTH   K5011530VTHA N39292019W087145647    N39292019W087145647E0020006062     NARTERRE HAUTE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BNETT K50    W     N38030400W085485763                    W0044     NAR           BNETT
        SUSAEAENRT   CAESR K50    W     N38074709W085564965                    W0043     NAR           CAESR
        SUSAEAENRT   CHERI K50    C   L N38134875W086305365                    W0039     NAR           CHERI
        SUSAEAENRT   COBLR K50    W     N38122209W085515462                    W0044     NAR           COBLR
        SUSAEAENRT   DAMEN K50    C   L N38102414W086051301                    W0042     NAR           DAMEN
        SUSAEAENRT   HAUGN K50    W     N38091174W085504480                    W0044     NAR           HAUGN
        SUSAEAENRT   PENTO K50    C     N38194331W087171673                    W0033     NAR           PENTO
        SUSAEAENRT   SACKO K50    C   L N38152616W086432583                    W0037     NAR           SACKO
        SUSAEAENRT   STUGZ K50    W     N38055350W085494256                    W0044     NAR           STUGZ
        SUSAEAENRT   YUNDV K50    W     N38151714W085525195                    W0044     NAR           YUNDV
        SUSAEAENRT   ZARDA K50    C     N38223806W088122333                    W0026     NAR           ZARDA

                 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 KSDFK5EDAMEN14ENL   010ENL  K5D 0V       IF                                                18000
        SUSAP KSDFK5EDAMEN14ENL   020ZARDAK5EA0E    010TF                    09600450
        SUSAP KSDFK5EDAMEN14ENL   030PENTOK5EA0E    010TF                    09660435
        SUSAP KSDFK5EDAMEN14ENL   040SACKOK5EA0EE   010TF                    10200270
        SUSAP KSDFK5EDAMEN14PXV   010PXV  K5D 0V       IF                                                18000
        SUSAP KSDFK5EDAMEN14PXV   020SACKOK5EA0EE   010TF                    07080530
        SUSAP KSDFK5EDAMEN14TTH   010TTH  K5D 0V       IF                                                18000
        SUSAP KSDFK5EDAMEN14TTH   020SACKOK5EA0EE   010TF                    16440778
        SUSAP KSDFK5EDAMEN15      010SACKOK5EA0E       IF                                                18000
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QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

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SUSAP KSDFK5EDAMEN15       020CHERIK5EA0E  H 010TF                    10230100    + 11000
SUSAP KSDFK5EDAMEN15       030DAMENK5EA0EE   010TF                    10240205
SUSAP KSDFK5EDAMEN16RW17B 010DAMENK5EA0E       IF                                                18000
SUSAP KSDFK5EDAMEN16RW17B 020CAESRK5EA0E    010TF                    11450071
SUSAP KSDFK5EDAMEN16RW17B 030HAUGNK5EA0E    010TF                    07660050    + 06000          210
SUSAP KSDFK5EDAMEN16RW17B 040COBLRK5EA0E    010TF                    34690033
SUSAP KSDFK5EDAMEN16RW17B 050YUNDVK5EA0EY   010TF                    34850030      04000
SUSAP KSDFK5EDAMEN16RW17B 060YUNDVK5EA0EE      FM LOZ K5      314511173485    D     04000
SUSAP KSDFK5EDAMEN16RW29  010DAMENK5EA0E       IF                                                18000
SUSAP KSDFK5EDAMEN16RW29  020HAUGNK5EA0E    010TF                    09900115    + 06000          210
SUSAP KSDFK5EDAMEN16RW29  030STUGZK5EA0E    010TF                    16910034
SUSAP KSDFK5EDAMEN16RW29  040BNETTK5EA0EY   010TF                    17120029      05000
SUSAP KSDFK5EDAMEN16RW29  050BNETTK5EA0EE      FM LOZ K5      310410171580    D     05000
SUSAP KSDFK5EDAMEN16RW35B 010DAMENK5EA0E       IF                                                18000
SUSAP KSDFK5EDAMEN16RW35B 020HAUGNK5EA0E    010TF                    09900115    + 06000          210
SUSAP KSDFK5EDAMEN16RW35B 030STUGZK5EA0E    010TF                    16910034
SUSAP KSDFK5EDAMEN16RW35B 040BNETTK5EA0EY   010TF                    17120029      05000
SUSAP KSDFK5EDAMEN16RW35B 050BNETTK5EA0EE      FM LOZ K5      310410171580    D     05000
```

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                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 N38110506W085445293-0200    +011470048608505015 0IISNU1
        SUSAP KSDFK5GRW29    0072502941 N38102299W085432577+0000    +011310048000005515 0RILKS0
        SUSAP KSDFK5GRW35L   0118903484 N38092940W085442137+0200    +010740046110405915 0IIRLI3
        SUSAP KSDFK5GRW35R   0085793479 N38095670W085432634+0300    +011040047204506015 0IIJJM3
```

QUALITY CHECKED 1

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

US Department of Transportation
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
	ENL	ENL	010		IF		FB					
	ENL	ZARDA	020		TF		FB	1.0	096.0()	045.0		
	ENL	PENTO	030		TF		FB	1.0	096.6()	043.5		
	ENL	SACKO	040		TF		FB	1.0	102.0()	027.0		
	PXV	PXV	010		IF		FB					
	PXV	SACKO	020		TF		FB	1.0	070.8()	053.0		
	TTH	TTH	010		IF		FB					
	TTH	SACKO	020		TF		FB	1.0	164.4()	077.8		
		SACKO	010		IF		FB					
		CHERI	020		TF		FB	1.0	102.3()	010.0	AA 11000	
		DAMEN	030		TF		FB	1.0	102.4()	020.5		
	RW17B	DAMEN	010		IF		FB					
	RW17B	CAESR	020		TF		FB	1.0	114.5()	007.1		
	RW17B	HAUGN	030		TF		FB	1.0	076.6()	005.0	AA 06000	AT 210
	RW17B	COBLR	040		TF		FB	1.0	346.9()	003.3		
	RW17B	YUNDV	050		TF		FO	1.0	348.5()	003.0	AT 04000	
	RW17B	YUNDV	060		FM		FB		348.5()		AT 04000	
	RW29	DAMEN	010		IF		FB					
	RW29	HAUGN	020		TF		FB	1.0	099.0()	011.5	AA 06000	AT 210
	RW29	STUGZ	030		TF		FB	1.0	169.1()	003.4		
	RW29	BNETT	040		TF		FO	1.0	171.2()	002.9	AT 05000	
	RW29	BNETT	050		FM		FB		158.0()		AT 05000	
	RW35B	DAMEN	010		IF		FB					
	RW35B	HAUGN	020		TF		FB	1.0	099.0()	011.5	AA 06000	AT 210
	RW35B	STUGZ	030		TF		FB	1.0	169.1()	003.4		
	RW35B	BNETT	040		TF		FO	1.0	171.2()	002.9	AT 05000	
	RW35B	BNETT	050		FM		FB		158.0()		AT 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ENL	N382512.00	W0890932.39	N3825.200	W08909.540
	LOZ	N370159.34	W0840636.27	N3701.989	W08406.605
	PXV	N375541.95	W0874544.56	N3755.699	W08745.743
	TTH	N392920.19	W0871456.47	N3929.337	W08714.941
	BNETT	N380304.00	W0854857.63	N3803.067	W08548.961
	CAESR	N380747.09	W0855649.65	N3807.785	W08556.828
	CHERI	N381348.75	W0863053.65	N3813.813	W08630.894
	COBLR	N381222.09	W0855154.62	N3812.368	W08551.910

QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

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DAMEN	N381024.14	W0860513.01	N3810.402	W08605.217
HAUGN	N380911.74	W0855044.80	N3809.196	W08550.747
PENTO	N381943.31	W0871716.73	N3819.722	W08717.279
SACKO	N381526.16	W0864325.83	N3815.436	W08643.431
STUGZ	N380553.50	W0854942.56	N3805.892	W08549.709
YUNDV	N381517.14	W0855251.95	N3815.286	W08552.866
ZARDA	N382238.06	W0881223.33	N3822.634	W08812.389
RW17L	N381111.14	W0854351.76	N3811.186	W08543.863
RW17R	N381105.06	W0854452.93	N3811.084	W08544.882
RW29	N381022.99	W0854325.77	N3810.383	W08543.430
RW35L	N380929.40	W0854421.37	N3809.490	W08544.356
RW35R	N380956.70	W0854326.34	N3809.945	W08543.439

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	00499	55
RW17R	00486	50
RW29	00480	55
RW35L	00461	59
RW35R	00472	60

QUALITY CHECKED 1

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
DAMEN RNAV	ONE	SACKO.DAMEN1	NONE		

RADIO FIX AND HOLDING DATA RECORD

NAME: BNETT **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380304.00N/0854857.63W **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 35L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R			KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (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:** 02/13/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BRBON **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 375009.94N/0853800.33W **TYPE:** WP, RADAR, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	I-RLI	LOC/DME		169.39	165.39	21.79	21.80		5000	6000
2	FORT KNOX	FTK	VOR/DME	T	105.71	104.71		16.67		2700	17500
3	LOUISVILLE	IIU	VORTAC	H	188.43	189.43	16.24	16.24		2700	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-RLI	LOC/DME	R-169	22	5000	6000
FTK	VOR/DME	R-106	17	12700	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	S	IIU	VORTAC	188.43	008.43	R	1		4000	6000	5	6
2	S		WP	188.43	008.43	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-001503)	374304.00N/0854231.00W	1249	5E
2	200	TOWER (21-001503)	374304.00N/0854231.00W	1249	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
I-RLI DME COORDINATES: 381117.18N / 0854453.38W
KSDF RWY 35L DISPLACED THRESHOLD COORDINATES: 380929.40N / 0854421.37W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
I-RLI (FAC 1) AND IIU (FAC 3) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V5-513					(US)
IAP	ILS OR LOC RWY 35L	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35R	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II)	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT III)	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II)	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT III)	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35R		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R		2	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	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED ESV FOR FTK VOR/DME (TERMINAL FACILITY).

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

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID

QUALITY 3 RECORD

ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MANAGER

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CAESR **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 380747.09N/0855649.65W **TYPE:** WP

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

FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/15/2011

DEVELOPED BY: **DATE:** 06/07/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CHERI **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381348.75N/0863053.65W **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	279.01	280.01	45.00	45.00		2700	17500
2	MYSTIC	MYS	VOR	L	328.63	327.63		23.88		2700	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IIU	VORTAC	R-279	45	2700	15200

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	IIU	VORTAC	279.00	099.00	L	1-1 1/2		3000	17500	8	15
2	W		WP	282.42	102.42	L		10	6000	18000	16	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (15-0927)	381006.00N/0863057.00W	1168	
2	265	TOWER (18-000560)	382207.00N/0862325.00W	1229	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 REQUESTED BY ATC
PAT 2 REQUESTED BY ATC

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V512	1, 2	1			(US)
STAR	CHERI	1, 2	1	KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED REMARK: LOUISVILLE (FAC 1) AND MYSTIC (FAC 2) USED TO ESTABLISH FIX COORDINATES.
CHANGED FAC 1 MAG BRG FROM 279.00 TO 279.01 AND TRUE BRG FROM 280.00 TO 280.01.
ADDED DIST FROM FAC TO FAC 1 AND 2.
RAISED FAC 1 AND 2 MRA FROM 2600 TO 2700 TO MATCH V512 MEA.
DELETED DME FROM FAC 2.
DELETED LEG LENGTH DME FROM PAT 1 AND ADDED STATEMENT FOR LEFT TURNS.
ADDED PAT 2 HOLDING.
ADDED IIU ESV DATA.
UPDATED PAT 1 HOLDING CONTROLLING OBSTACLE STATE CODE.
ADDED PRECIPITOUS TERRAIN EVALUATION NOTE TO REMARKS SECTION.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/07/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

OTHER: LOUISVILLE APCH

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COBLR **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381222.09N/0855154.62W **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	DAMEN (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:** 02/13/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DAMEN **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381024.14N/0860513.01W **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	279.01	280.01	24.48	24.48		2700	17500
2	MYSTIC	MYS	VOR	L	025.00	024.00		18.33		2700	17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	IIU	VORTAC	279.01	099.01	R	1-1 1/2		2700	17500	5	17
2	W		WP	279.00	099.00	R		5	2700	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001409)	381237.25N/0860448.89W	1127	5D
2	200	TOWER (18-001409)	381237.25N/0860448.89W	1127	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
IIU (FAC 1) AND MYS (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V512	1, 2				(US)
IAP	ILS OR LOC RWY 35L	1, 2	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II)	1, 2	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT III)	1, 2	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (SA CAT I)	1, 2	1	KSDF	LOUISVILLE	KY (US)
IAP	LOC RWY 29	1, 2	1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) RWY 29		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L		2	KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETED FAC 3 - KSDF R29.
UPDATED HOLDING PATTERN OBSTACLE STATE CODES.
ADDED STAR TO REQUESTED CHARTING.
ADDED DIST TO FAC ON FAC 1 AND 2.
ADDED REMARK: IIU (FAC 1) AND MYS (FAC 2) USED TO ESTABLISH FIX COORDINATES.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/07/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: HAUGN **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380911.74N/0855044.80W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (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:** 12/15/2011

DEVELOPED BY: **DATE:** 06/07/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY 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

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:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PENTO **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381943.31N/0871716.73W **TYPE:** WP, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CENTRALIA	ENL	VORTAC	H	088.97	092.97	88.45	88.45		13000	33000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ENL	VORTAC	R-089	89	13000	15100

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CHERI	1		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED ENL ESV DATA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/07/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: SCARY **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 382020.33N/0855426.49W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	DAMEN (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:** 12/15/2011

DEVELOPED BY: **DATE:** 06/08/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: STUGZ **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380553.50N/0854942.56W **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 35L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R			KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (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:** 02/13/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TERRE HAUTE VORTAC **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 392920.19N/0871456.47W **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	TERRE HAUTE	TTH	VORTAC	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	TTH	VORTAC	049.00	229.00	R	1		2300	6000	4	5
2	NW		WP	319.12	139.12	R		10	18000	31000	16	24

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	TOWER (18-000456)	391355.00N/0872341.00W	1551	5D
1	200	TOWER (18-001906)	393223.56N/0870719.76W	993	2C
1	310	TOWER (18-000890)	393014.00N/0872637.00W	1249	3C

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2600.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 5	KHUF	TERRE HAUTE	IN (US)
1	VOR/DME RWY 5	KHUF	TERRE HAUTE	IN (US)

REMARKS:
PAT 1 EVALUATED AT 265 KTS FOR CAT E MINIMUMS ON LOC BC RWY 23 AT KHUF.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 2 - 10 NM LEGS REQUESTED BY ATC FOR RNAV STAR HOLDING.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	ROCKY			KEYE	INDIANAPOLIS	IN (US)
DP	ROCKY			KHFY	INDIANAPOLIS	IN (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	ROCKY			KIND	INDIANAPOLIS	IN (US)
DP	ROCKY			KMQJ	INDIANAPOLIS	IN (US)
DP	ROCKY			KTYQ	INDIANAPOLIS	IN (US)
DP	ROCKY			KUMP	INDIANAPOLIS	IN (US)
DP	ROCKY			KGEZ	SHELBYVILLE	IN (US)
DP	LOVEY (RNAV)			KCVG	COVINGTON	KY (US)
DP	WHITEWATER			KCVG	COVINGTON	KY (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	TITAN (OBSTACLE)			KBNA	NASHVILLE	TN (US)
EN ROUTE	V14					(US)
EN ROUTE	V171					(US)
EN ROUTE	V192					(US)
EN ROUTE	V243					(US)
EN ROUTE	V50					(US)
EN ROUTE	V7					(US)
IAP	RNAV (GPS) RWY 22			K1H8	CASEY	IL (US)
IAP	RNAV (GPS) RWY 27			KPRG	PARIS	IL (US)
IAP	VOR/DME-A			KPRG	PARIS	IL (US)
IAP	RNAV (GPS) RWY 27			K0I2	BRAZIL	IN (US)
IAP	VOR OR GPS RWY 9			K0I2	BRAZIL	IN (US)
IAP	RNAV (GPS) RWY 36			K4I7	GREENCASTLE	IN (US)
IAP	ILS OR LOC RWY 23R			KIND	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 5L			KIND	INDIANAPOLIS	IN (US)
IAP	ILS RWY 5L (CAT II)			KIND	INDIANAPOLIS	IN (US)
IAP	ILS RWY 5L (CAT III)			KIND	INDIANAPOLIS	IN (US)
IAP	NDB RWY 36			KSIV	SULLIVAN	IN (US)
IAP	VOR/DME-A			KSIV	SULLIVAN	IN (US)
IAP	VOR OR GPS-A			K3I3	TERRE HAUTE	IN (US)
IAP	VOR-B			K3I3	TERRE HAUTE	IN (US)
IAP	ILS OR LOC RWY 5		1	KHUF	TERRE HAUTE	IN (US)
IAP	LOC BC RWY 23		1	KHUF	TERRE HAUTE	IN (US)
IAP	RNAV (GPS) RWY 23			KHUF	TERRE HAUTE	IN (US)
IAP	RNAV (GPS) RWY 5			KHUF	TERRE HAUTE	IN (US)
IAP	VOR RWY 23		1	KHUF	TERRE HAUTE	IN (US)

QUALITY CHECKED

IAP	VOR/DME RWY 5	1	KHUF	TERRE HAUTE	IN (US)
STAR	RACYR		KIND	INDIANAPOLIS	IN (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)	2	KSDF	LOUISVILLE	KY (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
ADDED PAT 2 DATA.
ADDED NOTE TO REMARKS SECTION: PAT 2 - 10 NM LEGS REQUESTED BY ATC FOR RNAV STAR HOLDING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/27/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YUNDV **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381517.14N/0855251.95W **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	DAMEN (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:** 02/13/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZARDA **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 382238.06N/0881223.33W **TYPE:** WP, INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CENTRALIA	ENL	VORTAC	H	088.97	092.97	45.00	45.00		13000	17500
2	BIBLE GROVE	BIB	VORTAC	L	155.23	158.23		35.03		13000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ENL	VORTAC	R-089	45	13000	15000

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CHERI	1, 2		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED REMARK: CENTRALIA (FAC 1) AND BIBLE GROVE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
CHANGED FAC 2 MAG BRG FROM 155.24 TO 155.23 AND TRUE BRG FROM 158.24 TO 158.23.
ADDED DIST FROM FAC TO FAC 1 AND 2.
ADDED ENL ESV DATA.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

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

LATITUDE/LONGITUDE: 382512.00N/0890932.39W **TYPE:**

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

FIX MAKE-UP FACILITIES:

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

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	ENL	VORTAC	206.96	026.96	R	1		2100	6000	4	5
2	W		WP	267.00	087.00	R		10	18000	45000	17	30

CONTROLLING OBSTRUCTIONS:

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

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2600.

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	TURBO			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	GATEWAY			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	TURBO			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	TURBO			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	TURBO			KSUS	ST LOUIS	MO (US)
DP	MEMPHIS			KMEM	MEMPHIS	TN (US)
EN ROUTE	J71					(US)
EN ROUTE	V234					(US)
EN ROUTE	V313					(US)
EN ROUTE	V4					(US)
EN ROUTE	V44					(US)
EN ROUTE	V67					(US)
EN ROUTE	V72					(US)
IAP	ILS OR LOC RWY 32R			KBLV	BELLEVILLE	IL (US)
IAP	ILS OR LOC/DME RWY 14L			KBLV	BELLEVILLE	IL (US)
IAP	ILS RWY 32L			KBLV	BELLEVILLE	IL (US)
IAP	RNAV (GPS) RWY 18			KH96	BENTON	IL (US)
IAP	ILS OR LOC RWY 30L			KCPS	CAHOKIA/ST LOUIS	IL (US)
IAP	ILS OR LOC RWY 18L			KMDH	CARBONDALE/MURPHYSBORO	IL (US)
IAP	NDB RWY 18L			KMDH	CARBONDALE/MURPHYSBORO	IL (US)
IAP	VOR-A		1	KENL	CENTRALIA	IL (US)
IAP	NDB RWY 9			KFWC	FAIRFIELD	IL (US)
IAP	ILS OR LOC RWY 20			KMWA	MARION	IL (US)
IAP	NDB RWY 20			KMWA	MARION	IL (US)
IAP	ILS RWY 23			KMVN	MOUNT VERNON	IL (US)
IAP	RNAV (GPS) RWY 23			KMVN	MOUNT VERNON	IL (US)
IAP	VOR RWY 23			KMVN	MOUNT VERNON	IL (US)
IAP	VOR RWY 5			KMVN	MOUNT VERNON	IL (US)
IAP	LOC RWY 11			KOLY	OLNEY/NOBLE	IL (US)
IAP	NDB RWY 18			KSLO	SALEM	IL (US)
IAP	RNAV (GPS) RWY 36			KVLA	VANDALIA	IL (US)
STAR	MOSEY			KCVG	COVINGTON	KY (US)
STAR	SARGO (RNAV)		2	KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	CHERI			KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

QUALITY CHECKED 4

STAR	QBALL	KSTL	ST LOUIS	MO (US)
STAR	VANDALIA	KSTL	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 11/18/2010

REASON FOR REVISION:
FIX COORDINATES MOVED BY 9.83 FT SE, PER SURVEY DATA.
UPDATED FIX COORDINATES.
UPDATED HOLDING PAT 1 OBST ID.
DELETED HOLDING LIMITED TO ESTABLISHED PATTERN STATEMENT.
ADDED PRECIP TERR SATATEMENT.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/20/2010 **OFFICE:** AVN-120 **NAME:** JON DENTON

APPROVED BY: **DATE:** 09/01/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

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

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: POCKET CITY VORTAC **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 375541.95N/0874544.56W **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	POCKET CITY	PXV	VORTAC	H							45000

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	PXV	VORTAC	330.20	150.20	R	1		2100	14000	4	10
2	SW	PXV	VORTAC	237.00	057.00	R	1		2500	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (21-000029)	375155.00N/0873405.00W	1449	2C
1	200	TOWER (18-001320)	375706.80N/0874543.60W	967	5D
2	200	TOWER (18-001320)	375706.80N/0874543.60W	967	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED ON AIRWAY RADIALS AT OR ABOVE 2500.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	TURBO			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	TURBO			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	KIING (RNAV)			KIND	INDIANAPOLIS	IN (US)
DP	DERBY CITY			KSDF	LOUISVILLE	KY (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	TURBO			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	TURBO			KSUS	ST LOUIS	MO (US)
DP	TITAN (OBS)			KBNA	NASHVILLE	TN (US)
DP	LUFKIN			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	LUFKIN			KGLS	GALVESTON	TX (US)
DP	LUFKIN			KAXH	HOUSTON	TX (US)
DP	LUFKIN			KCXO	HOUSTON	TX (US)
DP	LUFKIN			KDWH	HOUSTON	TX (US)
DP	LUFKIN			KEFD	HOUSTON	TX (US)
DP	LUFKIN			KEYQ	HOUSTON	TX (US)
DP	LUFKIN			KHOU	HOUSTON	TX (US)
DP	LUFKIN			KIAH	HOUSTON	TX (US)
DP	LUFKIN			KIWS	HOUSTON	TX (US)
DP	LUFKIN			KSGR	HOUSTON	TX (US)
DP	LUFKIN			KTME	HOUSTON	TX (US)
DP	LUFKIN			KT41	LA PORTE	TX (US)
EN ROUTE	J131					(US)
EN ROUTE	J29					(US)
EN ROUTE	J73					(US)
EN ROUTE	J78-112					(US)
EN ROUTE	Q25					(US)
EN ROUTE	Q28					(US)
EN ROUTE	Q29					(US)
EN ROUTE	Q31					(US)
EN ROUTE	V11					(US)
EN ROUTE	V11-47-305					(US)
EN ROUTE	V190					(US)
EN ROUTE	V305					(US)
EN ROUTE	V4					(US)
EN ROUTE	V47-512					(US)
EN ROUTE	V52					(US)
EN ROUTE	V7					(US)
EN ROUTE	V7-52					(US)
IAP	NDB RWY 36			KCUL	CARMI	IL (US)

IAP	NDB RWY 9		KFWC	FAIRFIELD	IL (US)
IAP	ILS RWY 23		KMVN	MOUNT VERNON	IL (US)
IAP	ILS OR LOC RWY 22	2	KEVV	EVANSVILLE	IN (US)
IAP	ILS OR LOC RWY 4	2	KEVV	EVANSVILLE	IN (US)
IAP	NDB RWY 22		KEVV	EVANSVILLE	IN (US)
IAP	RADAR-1	2	KEVV	EVANSVILLE	IN (US)
IAP	RNAV (GPS) RWY 22		KEVV	EVANSVILLE	IN (US)
IAP	RNAV (GPS) RWY 4		KEVV	EVANSVILLE	IN (US)
IAP	VOR RWY 4	2	KEVV	EVANSVILLE	IN (US)
IAP	RNAV (GPS) RWY 8		KFRH	FRENCH LICK	IN (US)
IAP	VOR-A	1	KEHR	HENDERSON	KY (US)
IAP	RNAV (GPS) RWY 25		K5M9	MARION	KY (US)
IAP	RNAV (GPS) RWY 7		K5M9	MARION	KY (US)
IAP	ILS OR LOC RWY 36		KOWB	OWENSBORO	KY (US)
IAP	VOR RWY 18		KOWB	OWENSBORO	KY (US)
IAP	VOR RWY 36		KOWB	OWENSBORO	KY (US)
IAP	VOR RWY 5		KOWB	OWENSBORO	KY (US)
STAR	RACYR		KIND	INDIANAPOLIS	IN (US)
STAR	SARGO (RNAV)		KCVG	COVINGTON	KY (US)
STAR	MOSEY		KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	QBALL		KSTL	ST LOUIS	MO (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	ZABER		K1G1	ELYRIA	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)
STAR	LTOWN (RNAV)		KMEM	MEMPHIS	TN (US)
STAR	WLDER		KMEM	MEMPHIS	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
UPDATED FIX USE.
ADDED PRECIPITOUS TERRAIN EVALUATION STATEMENT TO REMARKS SECTION.
MOVED UNPLANNED HOLDING AUTHORIZED NOTE FROM REMARKS SECTION TO HOLDING RESTRICTIONS SECTION.

DEVELOPED BY: **DATE:** 06/26/2009 **OFFICE:** AVN-120 **NAME:** DONALD LANIER

APPROVED BY: **DATE:** 12/15/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZID, KC, ZME
ATC FACILITY: EVV ATCT
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: SACKO **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381526.16N/0864325.83W **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	279.00	280.00	55.01	55.01		2700	17500
2	POCKET CITY	PXV	VORTAC	H	064.84	067.84	52.99	52.90		3500	17500
3	OWENSBORO	OWB	VOR/DME	T	033.12	034.12		37.25		2700	17500
4	HOOSIER	OOM	VORTAC	L	187.63	185.63		53.39		3500	17500
5	NABB	ABB	VORTAC	L	248.16	249.16	55.01	55.01		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IIU	VORTAC	R-279	56	2700	15200
OWB	VOR/DME	R-033	38	2700	17500
PXV	VORTAC	R-065	53	3500	17500
OOM	VORTAC	R-188	54	3500	17500
ABB	VORTAC	R-248	56	6000	17500

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V47	2, 4, 5				(US)
EN ROUTE	V512	1, 2, 3, 4				(US)
IAP	VOR RWY 27	1, 2, 3, 4, 5		KHNB	HUNTINGBURG	IN (US)
IAP	VOR RWY 9	1, 2, 3, 4, 5		KHNB	HUNTINGBURG	IN (US)
IAP	RNAV (GPS) RWY 13			KTEL	TELL CITY	IN (US)
STAR	CHERI TWO ARRIVAL	1, 2, 3		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 10/20/2011

REASON FOR REVISION:
ADDED FAC 4 AND 5.
ADD FAC 4 AND 5 ESV
ADD TO REMARKS; LOUISVILLE (FAC 1) AND POCKET CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.
FIX MOVED 502 EAST TO AIRWAY CENTERLINE.
UPDATED FIX USE.
ADDED WAYPOINT TO FIX TYPE.
ADDED FAC 1, 2, 3, 4, AND 5 ESV INFORMATION.
UPDATED FAC 1, 2, 3 DISTANCES.
IIU IS A HIGH FACILITY THERFORE THERE IS NO NEED FOR THE ESV TO BE ABOVE 15200

DEVELOPED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** LEE STUCKEY

APPROVED BY: **DATE:** 07/14/2011 **OFFICE:** AJV-311 **NAME:** DARRYEL ADAMS

SIGNATURE:

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