## FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated.

Arrival Name		Number	STAR Computer Code		Superseded Nu	mber	<u>Dated</u>	Effective Date	
DELMA (RNAV)			FOUR	DELMA.D	ELMA4	THRE	E	03/02/2017	8 NOV 2018
TRANSITION ROUTES:									
Transition Name	Transition Computer Code	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitude/Fixes
ARRIVAL ROUTE DESC	RIPTION:								

KSUS: LANDING RWY 8L/R: FROM DELMA ON TRACK 025.90/11.00 TO MMRSN (MEA 3000), THEN ON TRACK 347.10/14.61 TO DERDF (MEA 3000). EXPECT RADAR VECTORS TO FINAL APPROACH. IF NO HEADING RECEIVED, TRACK 349.00.

KSUS: LANDING RWY 26L/R: FROM DELMA ON TRACK 025.90/11.00 TO MMRSN (MEA 3000), THEN ON TRACK 050.77/26.87 TO EMKAA (MEA 3000). EXPECT RADAR VECTORS TO FINAL APPROACH. IF NO HEADING RECEIVED, TRACK 349.00.

KCPS: LANDING RWY 12R: FROM DELMA ON TRACK 025.90/11.00 TO MMRSN (MEA 3000), THEN ON TRACK 050.76/25.58 TO FOSKU (MEA 3000). EXPECT RADAR VECTORS TO FINAL APPROACH. IF NO HEADING RECEIVED, TRACK 080.00.

KCPS: LANDING RWY 30L/R: FROM DELMA ON TRACK 025.90/11.00 TO MMRSN (MEA 3000), THEN ON TRACK 084.47/29.31 TO ESSAR (MEA 3000), THEN ON TRACK 084.89/9.63 TO HOLLT (MEA 3000). EXPECT RADAR VECTORS TO FINAL APPROACH. IF NO HEADING RECEIVED, TRACK 033.00.

KBLV: LANDING RWY 14L/R, 32L/R: FROM DELMA ON TRACK 025.90/11.00 TO MMRSN (MEA 3000), THEN ON TRACK 084.47/29.31 TO ESSAR (MEA 3000). EXPECT RADAR VECTORS TO FINAL APPROACH. IF NO HEADING RECEIVED, TRACK 084.47.

KALN: LANDING RWY 11, 17, 29, 35: FROM DELMA ON TRACK 025.90/11.00 TO MMRSN (MEA 3000), THEN ON TRACK 039.26/34.35 TO CSX DME (MEA 3000). EXPECT RADAR VECTORS TO FINAL APPROACH COURSE. IF NO HEADING RECEIVED, TRACK 039.26.

#### PROCEDURAL DATA NOTES:

VERTICAL NAVIGATION PLANNING INFORMATION: EXPECT TO CROSS DELMA AT 13000. NOTE: DME/DME/IRU OR GPS REQUIRED.

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STANDARD TERMINAL ARRIVAL (STAR)

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Arrival Name	Number	STAR Computer Code	Superseded Number	<u>Dated</u>	Effective Date
DELMA (RNAV)	FOUR	DELMA.DELMA4	THREE	03/02/2017	8 NOV 2018

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.

**FIXES AND/OR HOLDING PATTERNS:** 

### **COMMUNICATIONS:**

STL APP CON, KSUS ATIS, KALN AWOS, KCPS ATIS, KBLV ATIS

### AIRPORTS SERVED:

AIRPORTS SERVED:	AIRPORT NAME	CITY	STATE
	SCOTT AFB/MIDAMERICA (KBLV)	BELLEVILLE	IL
	SPIRIT OF ST LOUIS (KSUS)	ST LOUIS	МО
	ST LOUIS DOWNTOWN (KCPS)	CAHOKIA/ST LOUIS	IL
	ST LOUIS RGNL (KALN)	ALTON/ST LOUIS	IL

#### LOST COMMUNICATIONS PREFERENCES:

### **REMARKS:**

ABBREVIATED AMENDMENT. DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

### **ADDITIONAL FLIGHT DATA:**

REFERENCE MAGNETIC VARIATION = KSUS 01W/2020

DME/DME ASSESSMENT: SAT (RNP 2.0)

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Arrival Name

Number STAR Computer Code Superseded Number Dated Effective Date

DELMA (RNAV)

FOUR DELMA.DELMA4 THREE 03/02/2017 8 NOV 2018

Digitally signed by **FLIGHT INSPECTED BY: ORGANIZATION:** DATE: **ROBERT G HAMILTON** FLIGHT INSPECTION NOT REQUIRED- PROCESSED IAW AJW-333 Flight Inspected Signature: Sep 14, 2018 AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017. Digitally signed by **DEVELOPED BY:** 05/31/2018 Developed By Signature: AJV-5400 ROBERT G HAMILTON LONNIE EVERHART (KEITH McKAY) Sep 14, 2018 APPROVED BY: Approved By Signature: Digitally signed by AJV-5400 ROBERT G HAMILTON LONNIE EVERHART Sep 14, 2018

#### **CHANGES:**

1. CHANGED ALL REFERENCES: FROM CSX VOR/DME TO CSX DME.

#### **REASONS:**

1. CSX VOR PORTION DECOMMISSIONING.

## FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STAR (DATA RECORD)

Arrival Name DELMA (RNAV)		Number <b>FOUR</b>		STAR Computer Code DELMA.DELMA4			Supersede THR		Dated <b>03/02/2017</b>	Effective Date 8 NOV 2018
FIX/NAVAID	LAT/LONG	С	FO/FB	LEG TYPE	тс	DIST (NM)	ALTITUDE	SPEED	REMARKS	
Common Route										
DELMA	380813.82N / 0905444.13W	Υ		IF					DELMA.DELMA4	
MMRSN	381812.99N / 0904851.17W	Υ	FB	TF	024.90	11.00				
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
CSX DME	384509.88N / 0902139.46W	Υ	FO	TF	038.26	34.35				
KALN:RWY 11, 17, 29,35				FM	038.26				RECOMMENDED	NAVAID: SPI VORTAC
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
ESSAR	382127.42N / 0901150.27W	Υ	FO	TF	083.47	29.31				
KBLV:RWY 14L/R				FM	083.47				RECOMMENDED	NAVAID: SPI VORTAC
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
ESSAR	382127.42N / 0901150.27W	Υ	FO	TF	083.47	29.31				
KBLV:RWY 32L/R				FM	083.47				RECOMMENDED	NAVAID: SPI VORTAC
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
FOSKU	383442.96N / 0902356.92W	Υ	FO	TF	049.76	25.58				
KCPS:RWY 12R				FM	079.00				RECOMMENDED	NAVAID: SPI VORTAC
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
ESSAR	382127.42N / 0901150.27W	Υ	FB	TF	083.47	29.31				

## FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STAR (DATA RECORD)

Arrival Name DELMA (RNAV)		Number FOUR		STAR Computer Code DELMA.DELMA4		Superseded Number THREE		Dated <b>03/02/2017</b>	Effective Date 8 NOV 2018	
FIX/NAVAID	LAT/LONG		FO/FB	LEG TYPE	тс	DIST (NM)	ALTITUDE	SPEED	REMARKS	
HOLLT	382228.42N / 0895939.36W	Υ	FO	TF	083.89	09.63				
KCPS:RWY 30L/R				FM	032.00				RECOMMENDED N	NAVAID: SPI VORTAC
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
DERDF	383224.57N / 0905319.45W	Υ	FO	TF	346.10	14.61				
KSUS:RWY 8L/R				FM	348.00				RECOMMENDED N	NAVAID: SPI VORTAC
Runway Transition										
MMRSN	381812.99N / 0904851.17W	Υ		IF						
EMKAA	383532.35N / 0902241.43W	Υ	FO	TF	049.77	26.87				
KSUS:RWY 26L/R				FM	348.00				RECOMMENDED I	NAVAID: SPI VORTAC