

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
NASHVILLE	BNA.QBALL9	BNA VORTAC	VISQA INT SCRCH INT CGI VOR/DME BREAK INT SNOKR INT FATSS INT QBALL INT	277.30/114.48 337.07/51.84 (CGI R-157) 337.07/10.00 (CGI R-157) 338.50/5.96 338.50/9.04 338.50/26.70 334.94/17.26 (STL R-155)	FL180 FL180 FL180 8000 8000 8000 8000			
MEMPHIS	MEM.QBALL9	MEM VORTAC	CGI VOR/DME BREAK INT SNOKR INT FATSS INT QBALL INT	007.45/134.05 338.50/5.96 338.50/9.04 338.50/26.70 334.94/17.26 (STL R-155)	FL180 8000 8000 8000 8000			

(2) Arrival Route Description:

LANDING RWYS 6/11/12L/12R: FROM QBALL INT ON STL R-155 TO CHIKN INT, THENCE...

LANDING RWYS 24/29/30L/30R: FROM QBALL INT ON STL R-155 TO ESSAR INT, THENCE...

...EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(3) Procedural Data Notes:

TURBOJET VERTICAL NAVIGATION PLANNING INFORMATION:

RADAR REQUIRED.

LANDING RWYS 6/11/12L/12R: EXPECT CLEARANCE TO CROSS QBALL INT AT 15000.

LANDING RWYS 24/29/30L/30R: EXPECT CLEARANCE TO CROSS QBALL INT AT 11000.

LANDING ALL RWYS: EXPECT CLEARANCE TO CROSS BREAK INT AT OR BELOW FL260.

(4) Fixes and/or Holding Patterns:

CHART FATSS INT, HOLD S, LT, 338.50 INBOUND. CHART MARION VOR/DME, HOLD E, RT, 256.00 INBOUND.

CHART SCRCH INT, HOLD SE, LT, 337.00 INBOUND. CHART QBALL INT, HOLD SE, LT, 334.94 INBOUND.

(5) Communications:

APP CON: KSTL.

ATIS: KSTL.

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
QBALL	NINE	QBALL.QBALL9	EIGHT	5 APR 12	06/27/2013

QUALITY
CHECKED

(12) Airports Served

Airport Name: LAMBERT ST-LOUIS INTL

City/State: ST. LOUIS, MO

(13) Lost Communications Procedure:**(14) Remarks:****(15) Additional Flight Data:**
(6) Arrival Name
QBALL(7) Number
NINE(8) STAR Computer Code
QBALL.QBALL9(9) Superseded Nr.
EIGHT(10) Dated
5 APR 12(11) Effective Date
06/27/2013

(16) Continuation: (BLOCK 2 DETAILED ARRIVAL ROUTE DESCRIPTION)

(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
POCKET CITY	PXV.QBALL9	PXV VORTAC	MWA VORTAC	257.42 & 255.65/60.28 (PXV R-257 & MWA R-076)	8000			
			FATTS INT	275.00/43.81	8000			
			QBALL INT	334.94/17.26 (STL R-155)	8000			
VISQA	VISQA.QBALL9	VISQA INT	SCRCH INT	337.07/51.84 (CGI R-157)	FL180			
			CGI VOR/DME	337.07/10.00 (CGI R-157)	FL180			
			BREAK INT	338.50/5.96	8000			
			SNOKR INT	338.50/9.04	8000			
			FATSS INT	338.50/26.70	8000			
			QBALL INT	334.94/17.26 (STL R-155)	8000			

(6) Arrival Name QBALL	(7) Number NINE	(8) STAR Computer Code QBALL.QBALL9	(9) Superseded Nr. EIGHT	(10) Dated 5 APR 12	(11) Effective Date 06/27/2013
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STAR (Data Record)

[illegible]

(11) Arrival Name QBALL	(12) Number NINE	(13) STAR Computer Code QBALL.QBALL9	(14) Superseded Nr. EIGHT	(15) Dated 5 APR 12	(16) Effective Date 27 Jun 2013
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STAR (Data Record)

[illegible]Page 2 of 4

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STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BNA	BNA	010		IF		FB					
	BNA	VISQA	020		TF		FB					
	BNA	SCRCH	030		TF		FB					
	BNA	CGI	040		TF		FB					
	BNA	BREAK	050		TF		FB					
	BNA	SNOKR	060		TF		FB					
	BNA	FATSS	070		TF		FB					
	BNA	QBALL	080		TF		FB					
	MEM	MEM	010		IF		FB					
	MEM	CGI	020		TF		FB					
	MEM	BREAK	030		TF		FB					
	MEM	SNOKR	040		TF		FB					
	MEM	FATSS	050		TF		FB					
	MEM	QBALL	060		TF		FB					
	PXV	PXV	010		IF		FB					
	PXV	MWA	020		TF		FB					
	PXV	FATSS	030		TF		FB					
	PXV	QBALL	040		TF		FB					
	VISQA	VISQA	010		IF		FB					
	VISQA	SCRCH	020		TF		FB					
	VISQA	CGI	030		TF		FB					
	VISQA	BREAK	040		TF		FB					
	VISQA	SNOKR	050		TF		FB					
	VISQA	FATSS	060		TF		FB					
	VISQA	QBALL	070		TF		FB					
	RW06	QBALL	010		IF		FB					
	RW06	ESSAR	020		TF		FB					
	RW06	CHIKN	030		TF		FB					
	RW11	QBALL	010		IF		FB					
	RW11	ESSAR	020		TF		FB					
	RW11	CHIKN	030		TF		FB					
	RW12B	QBALL	010		IF		FB					
	RW12B	ESSAR	020		TF		FB					
	RW12B	CHIKN	030		TF		FB					
	RW24	QBALL	010		IF		FB					
	RW24	ESSAR	020		TF		FB					
	RW29	QBALL	010		IF		FB					
	RW29	ESSAR	020		TF		FB					

**(11)
Arrival Name**
QBALL

**(12)
Number**
NINE

**(13)
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QBALL.QBALL9

**(14)
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**(15)
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POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
RW30B	QBALL	010	IF	FB	
RW30B	ESSAR	020	TF	FB	
	BNA	N360813.06	W0864105.18	N3608.218	W08641.086
	CGI	N371339.14	W0893420.68	N3713.652	W08934.345
	MEM	N350054.42	W0895859.55	N3500.907	W08958.993
	MWA	N374515.31	W0890042.00	N3745.255	W08900.700
	PXV	N375541.95	W0874544.56	N3755.699	W08745.743
	BREAK	N371907.39	W0893719.41	N3719.123	W08937.324
	CHIKN	N383850.48	W0902139.39	N3838.841	W09021.657
	ESSAR	N382127.42	W0901150.27	N3821.457	W09011.838
	FATSS	N375154.28	W0895520.64	N3751.905	W08955.344
	QBALL	N380743.35	W0900408.48	N3807.723	W09004.141
	SCRCH	N370433.85	W0892904.42	N3704.564	W08929.074
	SNOKR	N372725.23	W0894151.32	N3727.421	W08941.855
	VISQA	N361725.49	W0890206.31	N3617.425	W08902.105
	RW06	N384448.04	W0902252.43	N3844.801	W09022.874
	RW11	N384535.83	W0902435.55	N3845.597	W09024.593
	RW12L	N384506.41	W0902158.66	N3845.107	W09021.978
	RW12R	N384511.59	W0902239.98	N3845.193	W09022.666
	RW24	N384522.38	W0902127.02	N3845.373	W09021.450
	RW29	N384448.46	W0902259.39	N3844.808	W09022.990
	RW30L	N384417.08	W0902049.42	N3844.285	W09020.824
	RW30R	N384418.99	W0902022.51	N3844.317	W09020.375

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW06	00551	46
	RW11	00618	59
	RW12L	00528	54
	RW12R	00540	54
	RW24	00534	50
	RW29	00556	56
	RW30L	00583	58
	RW30R	00605	57

(11)
Arrival Name
QBALL

(12)
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