

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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.

Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name NRTAY RNAV	Number THREE	STAR Computer Code KNEAD.NRTAY3	Superseded Number TWO	Dated 20 AUG 2015	Effective Date 31 MAR 2016
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BGTOE	BGTOE.NRTAY3	BGTOE	BGTOE						
			SHLLY	087.61	55.71	10000	3900		
			DEEPS	080.91	18.63	10000	2900		BETWEEN FL240 AND FL300
			PUNKY	081.07	27.97	10000	3600		BETWEEN 15000 AND FL180
			KNEAD	081.49	18.03	4000	2300		AT 12000
DITSY	DITSY.NRTAY3	DITSY	DITSY						
			AGAIN	017.31	13.24	10000	2700		BETWEEN FL240 AND FL300
			FRSTI	029.50	28.34	10000	2600		BETWEEN 15000 AND FL180
			KNEAD	029.09	18.19	4000	2400		AT 12000
FRSTI	FRSTI.NRTAY3	FRSTI	FRSTI						BETWEEN 15000 AND FL180
			KNEAD	029.09	18.19	4000	2400		AT 12000
SHLLY	SHLLY.NRTAY3	SHLLY	SHLLY						
			DEEPS	080.91	18.63	10000	2900		BETWEEN FL240 AND FL300
			PUNKY	081.07	27.97	10000	3600		BETWEEN 15000 AND FL180
			KNEAD	081.49	18.03	4000	2300		AT 12000

ARRIVAL ROUTE DESCRIPTION:

FROM KNEAD ON TRACK 060.35/7.01 TO DRYYE (MEA 3000/MOCA 2400), THEN ON TRACK 070.01/14.18 TO SCOPS (MEA 3000/MOCA 2400), THEN ON TRACK 086.37/5.49 TO SWVAY (MEA 3000/MOCA 2300), THEN ON TRACK 086.10/8.15 TO TRNIT (MEA 3000/MOCA 2200), THEN ON TRACK 038.90/3.51 TO NRTAY (MEA 3000/MOCA 2100), THEN ON TRACK 356.31/8.00 TO WASDI (MEA 3000/MOCA 2000), THEN ON TRACK 356.31. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET AIRCRAFT ONLY.

NOTE: FILE THIS PROCEDURE WHEN DAL IS LANDING NORTH.

NOTE: WHEN DFW IS LANDING SOUTH, EXPECT THE BACHR RNAV STAR.

NOTE: SHLLY TRANSITION: FOR ABI TERMINAL AREA DEPARTURES ONLY.

NOTE: FRSTI TRANSITION: FOR ACT AND GRK TERMINAL AREA DEPARTURES ONLY.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT FRSTI: HOLD SW, RT, 029.50 INBOUND, 10 NM LEGS. CHART HOLDING AT SHLLY: HOLD W, RT, 087.61 INBOUND, 10 NM LEGS. CHART HOLDING AT PUNKY: HOLD W, RT, 081.49 INBOUND, 10 NM LEGS. CHART HOLDING AT AGAIN: HOLD S, RT, 017.31 INBOUND, 10 NM LEGS. CHART HOLDING AT PHILS: HOLD W, RT, 081.00 INBOUND, 10 NM LEGS. CHART HOLDING AT HOVAS: HOLD SW, RT, 061.00 INBOUND, 10 NM LEGS. CHART DWNTN AS STAND-ALONE WAYPOINT.

QUALITY
2
CHECKED

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NRTAY RNAV	THREE	KNEAD.NRTAY3	TWO	20 AUG 2015	31 MAR 2016

COMMUNICATIONS:

DAL ATIS, REGIONAL APP CON.

AIRPORTS SERVED:

DALLAS LOVE FIELD, DALLAS, TX

LOST COMMUNICATIONS PROCEDURE:REMARKS:ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).

REFERENCE MAGNETIC VARIATION = KDAL 03E/2020

*Digitally signed by*CHANGES:

1. MOVED DITSY 3.0 NM NNE, INTO ZFW AIRSPACE.
2. UPDATED KDAL REFERENCE MAGVAR FROM 06E/1990 TO 03E/2020 AND ADDED 3° TO ALL MAGNETIC COURSES.
3. CHANGED RECOMMENDED NAVAID ON 7100-3 FROM TTT VOR/DME TO MLU VORTAC.

REASONS:

1. FOR COORDINATION AND AUTOMATION REQUIREMENTS.
2. TO BRING KDAL MAGVAR INTO COMPLIANCE WITH APPLICABLE ORDERS.
3. TO MATCH NEW KDAL MAGVAR.



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STAR (DATA RECORD)

Arrival Name NRTAY RNAV	Number THREE	STAR Computer Code KNEAD.NRTAY3	Superseded Number TWO	Dated 20 AUG 2015	Effective Date 31 MAR 2016
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BGTOE	321109.60N / 0995035.87W	Y		IF					BGTOE.NRTAY3
SHLLY	321016.97N / 0984458.26W	Y	FB	TF	090.61	55.71			
DEEPS	321213.85N / 0982308.07W	Y	FB	TF	083.91	18.63	FL240BFL300	AT 280K	
PUNKY	321503.33N / 0975020.00W	Y	FB	TF	084.07	27.97	15000BFL180	AT 280K	
KNEAD	321645.65N / 0972909.61W	Y	FB	TF	084.49	18.03	AT 12000	AT 250K	
En Route Transition									
DITSY	312456.94N / 0980351.07W	Y		IF					DITSY.NRTAY3
AGAIN	313723.57N / 0975828.01W	Y	FB	TF	020.31	13.24	FL240BFL300	AT 280K	
FRSTI	320119.65N / 0974033.40W	Y	FB	TF	032.50	28.34	15000BFL180	AT 280K	
KNEAD	321645.65N / 0972909.61W	Y	FB	TF	032.09	18.19	AT 12000	AT 250K	
En Route Transition									
FRSTI	320119.65N / 0974033.40W	Y		IF			15000BFL180	AT 280K	FRSTI.NRTAY3
KNEAD	321645.65N / 0972909.61W	Y	FB	TF	032.09	18.19	AT 12000	AT 250K	
En Route Transition									
SHLLY	321016.97N / 0984458.26W	Y		IF					SHLLY.NRTAY3
DEEPS	321213.85N / 0982308.07W	Y	FB	TF	083.91	18.63	FL240BFL300	AT 280K	
PUNKY	321503.33N / 0975020.00W	Y	FB	TF	084.07	27.97	15000BFL180	AT 280K	
KNEAD	321645.65N / 0972909.61W	Y	FB	TF	084.49	18.03	AT 12000	AT 250K	
Common Route									
KNEAD	321645.65N / 0972909.61W	Y		IF			AT 12000	AT 250K	KNEAD.NRTAY3
DRYYE	321954.46N / 0972145.95W	Y	FB	TF	063.35	07.01			
SCOPS	322402.51N / 0970545.14W	Y	FB	TF	073.01	14.18			
SWVAY	322405.96N / 0965916.43W	Y	FB	TF	089.37	05.49			
TRNIT	322413.27N / 0964939.26W	Y	FB	TF	089.10	08.15			

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NRTAY RNAV	THREE	KNEAD.NRTAY3			TWO		20 AUG 2015	31 MAR 2016	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
NRTAY	322650.32N / 0964653.04W	Y	FB	TF	041.90	03.51			
WASDI	323451.25N / 0964659.91W	Y	FO	TF	359.31	08.00			
KDAL				FM	359.31				RECOMMENDED NAVAID: MLU VORTAC

