

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

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
WAPPL (RNAV)	SIX	WAPPL.WAPPL6	FIVE	03/26/2020	07 OCT 2021

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ALEXANDRIA	AEX.WAPPL6	AEX VORTAC	AEX VORTAC						
			BRWCK	234.51	73.99	12000	1800		AT/ABOVE FL240
			WAPPL	233.89	38.76	9000	1600		BETWEEN FL220 AND FL270
PLANB	PLANB.WAPPL6	PLANB	PLANB						
			ZEBBB	188.78	59.82	12000	2000		
			WAPPL	216.07	30.00	9000	1600		BETWEEN FL220 AND FL270
SAWMILL	SWB.WAPPL6	SWB VOR/DME	SWB VOR/DME						
			JMIKE	216.68	92.16	12000	1900		AT/ABOVE FL240
			ZEBBB	215.95	12.45	12000	1700		
			WAPPL	216.07	30.00	9000	1600		BETWEEN FL220 AND FL270
ZEBBB	ZEBBB.WAPPL6	ZEBBB	ZEBBB						
			WAPPL	216.07	30.00	9000	1600		BETWEEN FL220 AND FL270

ARRIVAL ROUTE DESCRIPTION:

KHOU: FROM WAPPL ON TRACK 249.93/16.03 TO CROSS WLMOR BETWEEN 15000 AND FL210, THEN ON TRACK 249.84/10.00 TO HUDZY, THEN ON TRACK 249.71/6.00 TO CROSS CLWSN BETWEEN 12000 AND 14000 AND AT 280 KIAS, THEN ON TRACK 249.65/13.00 TO CROSS SWWAA BETWEEN 10000 AND 12000 AND AT 250 KIAS, THEN ON TRACK 191.33/9.16 TO CROSS PUSHN AT OR ABOVE 8000.

LANDING KHOU RWY 4: FROM PUSHN ON TRACK 192.29/6.10 TO CROSS BUGZY AT OR BELOW 10000, THEN ON TRACK 192.07/2.42 TO CROSS PRTH AT OR BELOW 7000, THEN ON TRACK 176.51/9.55 TO CROSS SHUUG AT 6000 AND AT 210 KIAS, THEN ON TRACK 222.00/2.00 TO EMARR, THEN ON TRACK 222.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KHOU RWY 13L/R: FROM PUSHN ON TRACK 192.29/6.10 TO CROSS BUGZY AT OR BELOW 10000, THEN ON TRACK 192.07/2.42 TO CROSS PRTH AT OR BELOW 7000, THEN ON TRACK 200.29/4.40 TO CROSS MOLLR AT 6000 AND AT 210 KIAS, THEN ON TRACK 250.96/5.99 TO VILLI, THEN ON TRACK 310.79/2.80 TO ALLY, THEN ON TRACK 310.79. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KHOU RWY 22: FROM PUSHN ON TRACK 192.29/6.10 TO CROSS BUGZY AT OR BELOW 10000, THEN ON TRACK 174.80/7.61 TO CROSS RTWNG AT 7000 AND AT 210 KIAS, THEN ON TRACK 111.30/4.40 TO MAAH, THEN ON TRACK 111.30. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KHOU RWY 31L/R: FROM PUSHN ON TRACK 192.29/6.10 TO CROSS BUGZY AT OR BELOW 10000, THEN ON TRACK 192.07/2.42 TO CROSS PRTH AT OR BELOW 7000, THEN ON TRACK 126.35/3.00 TO CROSS UBETR AT 6000 AND AT 210 KIAS, THEN ON TRACK 126.35. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KGLS/KTME/KAXH/KHPY/T41/54T/T00/KSGR/KARM/KBY/KLBX/KLVJ/KIWS/KEFD: FROM WAPPL ON TRACK 249.93/16.03 TO CROSS WLMOR BETWEEN 15000 AND FL210, THEN ON TRACK 249.84/10.00 TO HUDZY, THEN ON TRACK 249.71/6.00 TO CROSS CLWSN BETWEEN 12000 AND 14000 AND AT 280 KIAS, THEN ON TRACK 249.65/13.00 TO CROSS SWWAA BETWEEN 10000 AND 12000 AND AT 250 KIAS, THEN ON TRACK 191.33/9.16 TO CROSS PUSHN AT OR ABOVE 8000, THEN ON TRACK 192.29/6.10 TO CROSS BUGZY AT OR BELOW 10000, THEN ON TRACK 174.80/8.61 TO CROSS PLKTN AT 8000, THEN ON TRACK 174.80. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES

RADAR REQUIRED

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WAPPL (RNAV)	SIX	WAPPL.WAPPL6	FIVE	03/26/2020	07 OCT 2021

PROCEDURAL DATA NOTES:

NOTE: EXPECT RUNWAY ASSIGNMENT FROM HOUSTON TRACON UPON INITIAL CONTACT.

NOTE: FOR TURBOJET AND TURBOPROP AIRCRAFT CAPABLE OF 280 KIAS OR GREATER ONLY.

NOTE: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KIAS. MAINTAIN 280 KIAS UNTIL SLOWED BY THE STAR.

NOTE: ZEBBB TRANSITION ATC ASSIGNED ONLY.

NOTE: EXCEPT FOR AIRCRAFT DEPARTING SHV, PLANB TRANSITION IS ATC ASSIGNED ONLY. DO NOT FILE.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT BRWCK: HOLD NE, LT, 234.51 INBOUND, 20 NM LEGS.

CHART HOLDING AT WAPPL: HOLD NE, LT, 233.89 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: HOUSTON APP CON

AIRPORTS SERVED:

WILLIAM P HOBBY, HOUSTON, TX (KHOU)

BAY CITY RGNL, BAY CITY, TX (KBYY)

BAYTOWN, BAYTOWN, TX (KHPY)

CHAMBERS COUNTY, ANAHUAC, TX (T00)

ELLINGTON, HOUSTON, TX (KEFD)

HOUSTON EXEC, HOUSTON, TX (KTME)

HOUSTON-SOUTHWEST, HOUSTON, TX (KAXH)

LA PORTE MUNI, LA PORTE, TX (T41)

PEARLAND RGNL, HOUSTON, TX (KLVJ)

RWJ AIRPARK, BAYTOWN, TX (54T)

SCHOLES INTL AT GALVESTON, GALVESTON, TX (KGLS)

SUGAR LAND RGNL, HOUSTON, TX (KSGR)

TEXAS GULF COAST RGNL, ANGLETON/LAKE JACKSON, TX (KLBX)

WEST HOUSTON, HOUSTON, TX (KIWS)

WHARTON RGNL, WHARTON, TX (KARM)

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

ABBREVIATED AMDT; DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KHOU 03E/2015

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
WAPPL (RNAV)	SIX	WAPPL.WAPPL6	FIVE	03/26/2020	07 OCT 2021
<u>FLIGHT INSPECTED BY:</u>				<i>Digitally signed by</i> DAVID DANNER	
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, APRIL 29, 2020				May 21, 2021	Signature
<u>DEVELOPED BY:</u>				<i>Digitally signed by</i> DAVID DANNER	
idalia Pulido, Support Manager, Airspace and Procedures		ATO-AJT-TCHU1-I90	04/16/2021	May 21, 2021	Signature
Name		Organization	Date		
<u>APPROVED BY:</u>				<i>Digitally signed by</i> DAVID DANNER	
PAT MULQUEEN, MANAGER		AJV-A440		May 21, 2021	Signature
Name		Organization	Date		

CHANGES:

1. REMOVED RUNWAY 17/35 ARRIVAL ROUTE DESCRIPTION.
2. REFORMATTED RADAR REQUIRED, RNAV 1, DME/DME OR GPS REQUIRED NOTES TO CURRENT FORMAT.
3. REMOVED RECOMMENDED NAVAID FROM 17.2 FORM.
4. REMOVED MEA/MOCA FROM COMMON ROUTE.
5. CHANGED "AT OR" ALTITUDES TO "BETWEEN" IN ARRIVAL ROUTE DESCRIPTION.

REASONS:

1. RUNWAY DEACTIVATED.
2. IAW 8260.19I, 4-5-3.
3. NO LONGER PUBLISHED.
4. NO LONGER REQUIRED IAW 8260.3D, 2-2-7E(3).
5. CURRENT DOCUMENTATION STANDARDS.



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name WAPPL (RNAV)		Number SIX		STAR Computer Code WAPPL.WAPPL6		Superseded Number FIVE		Dated 03/26/2020	Effective Date 07 OCT 2021
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
AEX VORTAC	311524.23N / 0923003.50W	Y		IF					AEX.WAPPL6
BRWCK	303513.63N / 0934221.71W	Y	FB	TF	237.51	73.99	AT/ABOVE FL240		
WAPPL	301354.84N / 0941950.33W	Y	FB	TF	236.89	38.76	FL220BFL270	AT 280K	
En Route Transition									
PLANB	313559.26N / 0934351.54W	Y		IF					PLANB.WAPPL6
ZEBBB	303717.21N / 0935800.95W	Y	FB	TF	191.78	59.82			
WAPPL	301354.84N / 0941950.33W	Y	FB	TF	219.07	30.00	FL220BFL270	AT 280K	
En Route Transition									
SWB VOR/DME	315823.50N / 0924037.52W	Y		IF					SWB.WAPPL6
JMIKE	304700.00N / 0934856.45W	Y	FB	TF	219.68	92.16	AT/ABOVE FL240		
ZEBBB	303717.21N / 0935800.95W	Y	FB	TF	218.95	12.45			
WAPPL	301354.84N / 0941950.33W	Y	FB	TF	219.07	30.00	FL220BFL270	AT 280K	
En Route Transition									
ZEBBB	303717.21N / 0935800.95W	Y		IF					ZEBBB.WAPPL6
WAPPL	301354.84N / 0941950.33W	Y	FB	TF	219.07	30.00	FL220BFL270	AT 280K	
Common Route									
WAPPL	301354.84N / 0941950.33W	Y		IF			FL220BFL270	AT 280K	WAPPL.WAPPL6
WLMOR	300910.71N / 0943730.73W	Y	FB	TF	252.93	16.03	15000BFL210		
HUDZY	300612.81N / 0944831.66W	Y	FB	TF	252.84	10.00			
CLWSN	300425.38N / 0945507.82W	Y	FB	TF	252.71	06.00	12000B14000	AT 280K	
SWWAA	300031.45N / 0950925.36W	Y	FB	TF	252.65	13.00	10000B12000	AT 250K	
PUSHN	295137.79N / 0951201.76W	Y	FB	TF	194.33	09.16	AT/ABOVE 8000		
Common Route									
WAPPL	301354.84N / 0941950.33W	Y		IF			FL220BFL270	AT 280K	WAPPL.WAPPL6

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Arrival Name WAPPL (RNAV)	Number SIX	STAR Computer Code WAPPL.WAPPL6	Superseded Number FIVE	Dated 03/26/2020	Effective Date 07 OCT 2021
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
WLMOR	300910.71N / 0943730.73W	Y	FB	TF	252.93	16.03	15000BFL210		
HUDZY	300612.81N / 0944831.66W	Y	FB	TF	252.84	10.00			
CLWSN	300425.38N / 0945507.82W	Y	FB	TF	252.71	06.00	12000B14000	AT 280K	
SWWAA	300031.45N / 0950925.36W	Y	FB	TF	252.65	13.00	10000B12000	AT 250K	
PUSHN	295137.79N / 0951201.76W	Y	FB	TF	194.33	09.16	AT/ABOVE 8000		
BUGZY	294544.12N / 0951352.56W	Y	FB	TF	195.29	06.10	AT/BELOW 10000		
PLKTN	293706.63N / 0951329.76W	Y	FO	TF	177.80	08.61	AT 8000		
54T,KARM,KAXH, KBY,Y,KEFD,KGLS, KHPY,KIWS,KLBX, KLVJ,KSGR,T00, T41,KTME				FM	177.80				

Runway Transition

PUSHN	295137.79N / 0951201.76W	Y		IF			AT/ABOVE 8000		
BUGZY	294544.12N / 0951352.56W	Y	FB	TF	195.29	06.10	AT/BELOW 10000		
PRTCH	294323.54N / 0951435.92W	Y	FB	TF	195.07	02.42	AT/BELOW 7000		
SHUUG	293349.40N / 0951430.28W	Y	FB	TF	179.51	09.55	AT 6000	AT 210K	
EMARR	293224.33N / 0951607.56W	Y	FO	TF	225.00	02.00			
KHOU:RWY 4				FM	225.00				

Runway Transition

PUSHN	295137.79N / 0951201.76W	Y		IF			AT/ABOVE 8000		
BUGZY	294544.12N / 0951352.56W	Y	FB	TF	195.29	06.10	AT/BELOW 10000		
PRTCH	294323.54N / 0951435.92W	Y	FB	TF	195.07	02.42	AT/BELOW 7000		
MOLLR	293920.23N / 0951635.83W	Y	FB	TF	203.29	04.40	AT 6000	AT 210K	
VILLI	293740.49N / 0952312.28W	Y	FB	TF	253.96	05.99			
ALLLY	293937.02N / 0952531.48W	Y	FO	TF	313.79	02.80			
KHOU:RWY 13L,RWY 13R				FM	313.79				

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Arrival Name WAPPL (RNAV)	Number SIX	STAR Computer Code WAPPL.WAPPL6	Superseded Number FIVE	Dated 03/26/2020	Effective Date 07 OCT 2021
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
PUSHN	295137.79N / 0951201.76W	Y		IF			AT/ABOVE 8000		
BUGZY	294544.12N / 0951352.56W	Y	FB	TF	195.29	06.10	AT/BELOW 10000		
RTWNG	293806.48N / 0951332.39W	Y	FB	TF	177.80	07.61	AT 7000	AT 210K	
MAAHH	293617.42N / 0950856.16W	Y	FO	TF	114.30	04.40			
KHOU:RWY 22				FM	114.30				
Runway Transition									
PUSHN	295137.79N / 0951201.76W	Y		IF			AT/ABOVE 8000		
BUGZY	294544.12N / 0951352.56W	Y	FB	TF	195.29	06.10	AT/BELOW 10000		
PRTCH	294323.54N / 0951435.92W	Y	FB	TF	195.07	02.42	AT/BELOW 7000		
UBETR	294129.09N / 0951156.12W	Y	FO	TF	129.35	03.00	AT 6000	AT 210K	
KHOU:RWY 31L,RWY 31R				FM	129.35				