


<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <b>US Department of Transportation</b>  <b>Federal Aviation Administration</b> </div> <div> <b>STAR - Standard Terminal Arrival</b> </div> <div style="text-align: right; font-size: 0.8em;">           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         </div> </div>								
<b>(1) Transition Routes</b>								
(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
ALEXANDRIA	AEX.WHACK2	AEX VORTAC	AEX VORTAC CRNKY PROZC WHACK	244.85/74.05 244.20/18.00 244.04/20.00	12000 12000 9000	1800 1700 1700		AT/ABOVE FL240 AT/ABOVE 17000, AT/BELOW FL200 AT/ABOVE 12000, AT/BELOW 14000
CARPR	CARPR.WHACK2	CARPR	CARPR NUTZZ WHACK	209.01/17.98 208.95/20.02	12000 9000	1700 1900		AT/ABOVE 17000, AT/BELOW FL200 AT/ABOVE 12000, AT/BELOW 14000
PLANB	PLANB .WHACK2	PLANB	PLANB CARPR NUTZZ WHACK	209.22/37.13 209.01/17.98 208.95/20.02	12000 12000 9000	1700 1700 1900		AT/ABOVE 17000, AT/BELOW FL200 AT/ABOVE 12000, AT/BELOW 14000
SAWMILL	SWB.WHACK2	SWB VOR/DME	SWB VOR/DME MENTL FRAGL	224.99/88.96 224.31/18.45	12000 12000	2000 2000		AT/ABOVE FL240 AT/ABOVE 17000, AT/BELOW FL200
<b>(2) Arrival Route Description:</b> FROM WHACK ON TRACK 211.44/13.02 TO CROSS BLUUZ AT OR BELOW 10000 AND AT 250 KIAS (MEA 6000).  LANDING RWY 26L: FROM BLUUZ ON TRACK 190.51/18.98 TO CROSS ODISS AT OR ABOVE 8000 AND AT 210 KIAS (MEA 4000), THEN ON TRACK 215.61/3.00 TO CROSS BOZZZ AT 8000 AND AT 210 KIAS (MEA 4000). EXPECT ASSIGNED INSTRUMENT APPROACH RWY 26L.  LANDING RWY 26R: FROM BLUUZ ON TRACK 193.64/8.00 TO CROSS TABRR AT OR ABOVE 6000, AT OR BELOW 7000 (MEA 4000), THEN ON TRACK 193.62/7.24 TO Continued on block 16...								
<b>(3) Procedural Data Notes:</b> NOTE: RADAR REQUIRED. NOTE: RNAV 1. NOTE: DME/DME/IRU OR GPS REQUIRED. NOTE: FOR USE BY TURBOJET AND TURBOPROP AIRCRAFT ONLY. NOTE: EXPECT RUNWAY ASSIGNMENT FROM HOUSTON TRACON UPON INITIAL CONTACT. NOTE: CORRESPONDING RNAV STAR IS TWSTD. EXPECT TWSTD WHEN IAH IS LANDING EAST. NOTE: CROSS CRNKY AT 280 KIAS, CROSS PROZC AT 280 KIAS, CROSS NUTZZ AT 280 KIAS, CROSS MENTL AT 280 KIAS, CROSS FRAGL AT 280 KIAS, CROSS WHACK AT 250 KIAS. NOTE: EXCEPT FOR AIRCRAFT DEPARTING SHV, PLANB TRANSITION IS ATC ASSIGNED ONLY; DO NOT FILE. NOTE: SPEED RESTRICTION: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KT. MAINTAIN 280 KT UNTIL SLOWED BY STAR.								
<b>(4) Fixes and/or Holding Patterns:</b> CHART HOLDING AT MENTL: NE, RT, 224.99 INBOUND, 20 NM LEGS.     CHART HOLDING AT WHACK: NE, RT, 224.23 INBOUND, 10 NM LEGS.								
<b>(5) Communications:</b> HOUSTON APP CON, IAH ATIS								
QUALITY 2 CHECKED								
<b>(6) Arrival Name</b> WHACK RNAV	<b>(7) Number</b> TWO	<b>(8) STAR Computer Code</b> WHACK.WHACK2	<b>(9) Superseded Nr.</b> ONE	<b>(10) Dated</b> 5/29/2014		<b>(11) Effective Date</b> <span style="color: red;">24 JUL 2014</span>		

<b>(12) Airports Served</b>					
<b>Airport Name</b> GEORGE BUSH INTERCONTINENTAL/HOUSTON		<b>City/State</b> HOUSTON, TX			
<b>Airport Name</b>		<b>City/State</b>			
<b>Airport Name</b>		<b>City/State</b>			
<b>Airport Name</b>		<b>City/State</b>			
<b>Airport Name</b>		<b>City/State</b>			
<b>Airport Name</b>		<b>City/State</b>			
<b>(13) Lost Communications Procedure:</b>					
<b>(14) Remarks:</b>					
<b>(15) Additional Flight Data:</b> DME/DME ASSESSMENT: SAT (RNP 2.0). REFERENCE MAG VAR: KIAH 3E/2015.					
					
<b>(6) Arrival Name</b> WHACK RNAV	<b>(7) Number</b> TWO	<b>(8) STAR Computer Code</b> WHACK.WHACK2	<b>(9) Superseded Nr.</b> ONE	<b>(10) Dated</b> 5/29/2014	<b>(11) Effective Date</b> 24 JUL 2014

**(16) Continuation:****(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
			WHACK	224.23/20.01	9000	1700		AT/ABOVE 12000, AT/BELOW 14000

**(2) Arrival Route Description:**

CROSS HOOTI AT 6000 AND AT 210 KIAS (MEA 4000). EXPECT ASSIGNED INSTRUMENT APPROACH RWY 26R.

LANDING RWY 27: FROM BLUUZ ON TRACK 171.66/6.52 TO CROSS PPUNK AT OR BELOW 8000 (MEA 4000), THEN ON TRACK 171.67/10.81 TO CROSS SOFFT AT OR ABOVE 4000 AND AT 210 KIAS (MEA 4000), THEN ON TRACK 185.40/4.02 TO CROSS CLSIK AT 4000 (MEA 4000). EXPECT ASSIGNED INSTRUMENT APPROACH RWY 27.

**(17) Changes:**

1. Block 1, Column (b) All Revision numbers upnumbered to revision 2
2. **(3) PROCEDURE DATA NOTES:** ADD NOTE: NOTE: EXCEPT FOR AIRCRAFT DEPARTING SHV, PLANB TRANSITION IS ATC ASSIGNED ONLY; DO NOT FILE.
3. **(3) PROCEDURE DATA NOTES:** ADD NOTE: NOTE: SPEED RESTRICTION: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KT. MAINTAIN 280 KT UNTIL SLOWED BY STAR.  
**(3) PROCEDURE DATA NOTES:** CHANGE NOTE: FOR TURBOJET AND TURBOPROP AIRCRAFT CAPABLE OF 280 KNOTS OR GREATER ONLY; TO READ: FOR USE BY TURBOJET AND TURBOPROP AIRCRAFT ONLY.

**(18) Reasons for Changes:**

1,2,3 ATC REQUEST

<b>(6) Arrival Name</b> WHACK RNAV	<b>(7) Number</b> TWO	<b>(8) STAR Computer Code</b> WHACK.WHACK2	<b>(9) Superseded Nr.</b> ONE	<b>(10) Dated</b> 5/29/2014	<b>(11) Effective Date</b> 24 JUL 2014
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US Department of Transportation Federal Aviation Administration					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									
AEX VORTAC	311524.22N / 0923003.51W	Y		IF					AEX.WHACK2
CRNKY	304700.71N / 0934941.12W	Y	FB	TF	247.85	74.05	AT/ABOVE FL240	AT 280K	
PROZC	303959.73N / 0940855.50W	Y	FB	TF	247.20	18.00	AT/ABOVE 17000, AT/BELOW FL200	AT 280K	
WHACK	303208.86N / 0943014.89W	Y	FB	TF	247.04	20.00	AT/ABOVE 12000, AT/BELOW 14000	AT 250K	
En Route Transition									
CARPR	310428.34N / 0940654.83W	Y		IF					CARPR.WHACK2
NUTZZ	304910.97N / 0941758.94W	Y	FB	TF	212.01	17.98	AT/ABOVE 17000, AT/BELOW FL200	AT 280K	
WHACK	303208.86N / 0943014.89W	Y	FB	TF	211.95	20.02	AT/ABOVE 12000, AT/BELOW 14000	AT 250K	
En Route Transition									
PLANB	313559.26N / 0934351.54W	Y		IF					PLANB .WHACK2
CARPR	310428.34N / 0940654.83W	Y	FB	TF	212.22	37.13			
NUTZZ	304910.97N / 0941758.94W	Y	FB	TF	212.01	17.98	AT/ABOVE 17000, AT/BELOW FL200	AT 280K	
WHACK	303208.86N / 0943014.89W	Y	FB	TF	211.95	20.02	AT/ABOVE 12000, AT/BELOW 14000	AT 250K	
(11) Arrival Name WHACK RNAV	(12) Number TWO	(13) STAR Computer Code WHACK.WHACK2		(14) Superseded Nr. ONE		(15) Dated 5/29/2014		(16) Effective Date 24 JUL 2014	

QUALITY  
2  
CHECKED

US Department of Transportation Federal Aviation Administration				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										
SWB VOR/DME	315823.50N / 0924037.52W	Y		IF					SWB.WHACK2	
MENTL	305820.09N / 0935730.12W	Y	FB	TF	227.99	88.96	AT/ABOVE FL240	AT 280K		
FRAGL	304547.04N / 0941314.39W	Y	FB	TF	227.31	18.45	AT/ABOVE 17000, AT BELOW FL200	AT 280K		
WHACK	303208.86N / 0943014.89W	Y	FB	TF	227.23	20.01	AT/ABOVE 12000, AT/BELOW 14000	AT 250K		
Common Route										
WHACK	303208.86N / 0943014.89W	Y		IF			AT/ABOVE 12000, AT/BELOW 14000	AT 250K	WHACK.WHACK2	
BLUUZ	302122.80N / 0943845.50W	Y	FB	TF	214.44	13.02	AT/BELOW 10000	AT 250K		
Runway Transition										
BLUUZ	302122.80N / 0943845.50W	Y		IF			AT/BELOW 10000	AT 250K		
ODISS	300253.00N / 0944351.92W	Y	FB	TF	193.51	18.98	AT/ABOVE 8000	AT 210K		
BOZZZ	300031.96N / 0944601.33W	Y	FB	TF	218.61	03.00	AT 8000	AT 210K		
KIAH:RWY 26L										
(11) Arrival Name WHACK RNAV		(12) Number TWO		(13) STAR Computer Code WHACK.WHACK2			(14) Superseded Nr. ONE		(15) Dated 5/29/2014	(16) Effective Date 24 JUL 2014

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US Department of Transportation Federal Aviation Administration					RNAV STAR (Data Record)				
Runway Transition									
BLUUZ	302122.80N / 0943845.50W	Y		IF			AT/BELOW 10000	AT 250K	
TABRR	301341.78N / 0944124.14W	Y	FB	TF	196.64	08.00	AT/ABOVE 6000, AT/BELOW 7000		
HOOTI	300644.50N / 0944347.35W	Y	FB	TF	196.62	07.24	AT 6000	AT 210K	
KIAH:RWY 26R									
Runway Transition									
BLUUZ	302122.80N / 0943845.50W	Y		IF			AT/BELOW 10000	AT 250K	
PPUNK	301452.37N / 0943803.47W	Y	FB	TF	174.66	06.52	AT/BELOW 8000		
SOFFT	300405.16N / 0943653.99W	Y	FB	TF	174.67	10.81	AT/ABOVE 4000	AT 210K	
CLSIK	300005.79N / 0943734.59W	Y	FB	TF	188.40	04.02	AT 4000		
KIAH:RWY 27									
(11) Arrival Name <b>WHACK RNAV</b>	(12) Number <b>TWO</b>	(13) STAR Computer Code <b>WHACK.WHACK2</b>		(14) Superseded Nr. <b>ONE</b>		(15) Dated 5/29/2014		(16) Effective Date <b>24 JUL 2014</b>	

QUALITY  
2  
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### STAR (Data Record)

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**US Department of Transportation  
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**STAR (Data Record)**

SUSAP	KIAHK4EWHACK24AEX	030PROZCK4PCOE	010TF	B	FL20017000	280
SUSAP	KIAHK4EWHACK24AEX	040WHACKK4EA0EE	H 010TF	B	1400012000	250
SUSAP	KIAHK4EWHACK24CARPR	010CARPRK4PCOE	IF			18000
SUSAP	KIAHK4EWHACK24CARPR	020NUTZZK4PCOE	010TF	B	FL20017000	280
SUSAP	KIAHK4EWHACK24CARPR	030WHACKK4EA0EE	H 010TF	B	1400012000	250
SUSAP	KIAHK4EWHACK24PLANB	010PLANBK4EA0E	IF			18000
SUSAP	KIAHK4EWHACK24PLANB	020CARPRK4PCOE	010TF			
SUSAP	KIAHK4EWHACK24PLANB	030NUTZZK4PCOE	010TF	B	FL20017000	280
SUSAP	KIAHK4EWHACK24PLANB	040WHACKK4EA0EE	H 010TF	B	1400012000	250
SUSAP	KIAHK4EWHACK24SWB	010SWB K4D 0V	IF			18000
SUSAP	KIAHK4EWHACK24SWB	020MENTLK4PCOE	H 010TF	+	FL240	280
SUSAP	KIAHK4EWHACK24SWB	030FRAGLK4PCOE	010TF	B	FL20017000	280
SUSAP	KIAHK4EWHACK24SWB	040WHACKK4EA0EE	H 010TF	B	1400012000	250
SUSAP	KIAHK4EWHACK25	010WHACKK4EA0E	H IF	B	140001200018000250	
SUSAP	KIAHK4EWHACK25	020BLUUZK4PCOE	010TF	-	10000	250
SUSAP	KIAHK4EWHACK26RW26L	010BLUUZK4PCOE	IF	-	10000	18000250
SUSAP	KIAHK4EWHACK26RW26L	020ODISSK4PCOE	010TF	+	08000	210
SUSAP	KIAHK4EWHACK26RW26L	030BOZZK4PCOE	010TF		08000	210
SUSAP	KIAHK4EWHACK26RW26R	010BLUUZK4PCOE	IF	-	10000	18000250
SUSAP	KIAHK4EWHACK26RW26R	020TABRRK4PCOE	010TF	B	0700006000	
SUSAP	KIAHK4EWHACK26RW26R	030HOOTIK4PCOE	010TF		06000	210
SUSAP	KIAHK4EWHACK26RW27	010BLUUZK4PCOE	IF	-	10000	18000250
SUSAP	KIAHK4EWHACK26RW27	020PPUNKK4PCOE	010TF	-	08000	
SUSAP	KIAHK4EWHACK26RW27	030SOFFTK4PCOE	010TF	+	04000	210
SUSAP	KIAHK4EWHACK26RW27	040CLSIIK4PCOE	010TF		04000	

[illegible]

QUALITY  
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(11) Arrival Name WHACK RNAV	(12) Number TWO	(13) STAR Computer Code WHACK.WHACK2	(14) Superseded Nr. ONE	(15) Dated 5/29/2014	(16) Effective Date 24 JUL 2014
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**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
	AEX	AEX	010		IF		FB					
	AEX	CRNKY	020		TF		FB	1.0			AA FL240	AT 280
	AEX	PROZC	030		TF		FB	1.0			BT FL20017000	AT 280
	AEX	WHACK	040		TF		FB	1.0			BT 1400012000	AT 250
	CARPR	CARPR	010		IF		FB					
	CARPR	NUTZZ	020		TF		FB	1.0			BT FL20017000	AT 280
	CARPR	WHACK	030		TF		FB	1.0			BT 1400012000	AT 250
	PLANB	PLANB	010		IF		FB					
	PLANB	CARPR	020		TF		FB	1.0				
	PLANB	NUTZZ	030		TF		FB	1.0			BT FL20017000	AT 280
	PLANB	WHACK	040		TF		FB	1.0			BT 1400012000	AT 250
	SWB	SWB	010		IF		FB					
	SWB	MENTL	020		TF		FB	1.0			AA FL240	AT 280
	SWB	FRAGL	030		TF		FB	1.0			BT FL20017000	AT 280
	SWB	WHACK	040		TF		FB	1.0			BT 1400012000	AT 250
		WHACK	010		IF		FB				BT 1400012000	AT 250
		BLUUZ	020		TF		FB	1.0			AB 10000	AT 250
	RW26L	BLUUZ	010		IF		FB				AB 10000	AT 250
	RW26L	ODISS	020		TF		FB	1.0			AA 08000	AT 210
	RW26L	BOZZZ	030		TF		FB	1.0			AT 08000	AT 210
	RW26R	BLUUZ	010		IF		FB				AB 10000	AT 250
	RW26R	TABRR	020		TF		FB	1.0			BT 0700006000	
	RW26R	HOOTI	030		TF		FB	1.0			AT 06000	AT 210
	RW27	BLUUZ	010		IF		FB				AB 10000	AT 250
	RW27	PPUNK	020		TF		FB	1.0			AB 08000	
	RW27	SOFFT	030		TF		FB	1.0			AA 04000	AT 210
	RW27	CLSIK	040		TF		FB	1.0			AT 04000	

## POINT DATA

## WAYPOINT

## LAT IN SECS

## LONG IN SECS

## LAT IN MINS

## LONG IN MINS

AEX	N311524.22	W0923003.51	N3115.404	W09230.059
SWB	N315823.50	W0924037.52	N3158.392	W09240.625
PLANB	N313559.26	W0934351.54	N3135.988	W09343.859
WHACK	N303208.86	W0943014.89	N3032.148	W09430.248
BLUUZ	N302122.80	W0943845.50	N3021.380	W09438.758
BOZZZ	N300031.96	W0944601.33	N3000.533	W09446.022
CARPR	N310428.34	W0940654.83	N3104.472	W09406.914
CLSIK	N300005.79	W0943734.59	N3000.097	W09437.577

 QUALITY  
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 (11)  
Arrival Name  
WHACK RNAV

 (12)  
Number  
TWO

 (13)  
STAR Computer Code  
WHACK.WHACK2

 (14)  
Superseded Nr.  
ONE

 (15)  
Dated  
5/29/2014

 (16)  
Effective Date  
24 JUL 2014

**US Department of Transportation  
Federal Aviation Administration**

**STAR (Data Record)**

CRNKY	N304700.71	W0934941.12	N3047.012	W09349.685
FRAGL	N304547.04	W0941314.39	N3045.784	W09413.240
HOOTI	N300644.50	W0944347.35	N3006.742	W09443.789
MENTL	N305820.09	W0935730.12	N3058.335	W09357.502
NUTZZ	N304910.97	W0941758.94	N3049.183	W09417.982
ODISS	N300253.00	W0944351.92	N3002.883	W09443.865
PPUNK	N301452.37	W0943803.47	N3014.873	W09438.058
PROZC	N303959.73	W0940855.50	N3039.996	W09408.925
SOFFT	N300405.16	W0943653.99	N3004.086	W09436.900
TABRR	N301341.78	W0944124.14	N3013.696	W09441.402
RW26L	N295936.38	W0951930.96	N2959.606	W09519.516
RW26R	N300025.86	W0951949.29	N3000.431	W09519.822
RW27	N295839.41	W0951809.09	N2958.657	W09518.152

**RUNWAY DATA**

RWY	THRESHOLD ELEVATION	TCH
RW26L	00093	56
RW26R	00095	55
RW27	00085	55

QUALITY  
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CHECKED

**(11)  
Arrival Name  
WHACK RNAV**

**(12)  
Number  
TWO**

**(13)  
STAR Computer Code  
WHACK.WHACK2**

**(14)  
Superseded Nr.  
ONE**

**(15)  
Dated  
5/29/2014**

**(16)  
Effective Date  
24 JUL 2014**