

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
	KDWH	RNAV (GPS) RWY 17R	2	HOUSTON	TX	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
152	152		1E	09/13/2018	5E	2000
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>			
RNAV		25 FEBRUARY 2021	ROUTINE			

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
ZMSKL		WATSI		TF	FB		196.98	5.13	2000
SEALY		TUFFS		TF	FB		024.29	26.51	2000
WATSI	IAF	OILER		TF	FB		257.80	5.91	2000
TUFFS	IAF	OILER		TF	FB		077.69	5.91	2000
BRKMN	IAF	OILER		TF	FB		121.29	13.92	2000
OILER	IF	CUBIR		TF	FB		167.75	5.99	1800
CUBIR	FAF	HOPIP/2.40 NM TO RW17R		TF	FB		167.75	2.61	
HOPIP/2.40 NM TO RW17R	SDF	DAMZO/1.40 NM TO RW17R		TF	FB		167.75	1.00	
DAMZO/1.40 NM TO RW17R	SDF	RW17R	MAP	TF	FO		167.75	1.40	
RW17R	MAP	402 MSL		CA			167.75		
402 MSL		KOHRY		DF	FO				2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT KOHRY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT OILER

3. FAC: 167.75 FAF: CUBIR DIST FAF TO MAP: 5.01 DIST FAF TO THLD: 5.01

4. MIN ALT: OILER 2000, CUBIR 1800, HOPIP/2.40 NM TO RW17R 960*, DAMZO/1.40 NM TO RW17R 640*

5. DIST TO THLD FROM FAF: 5.01 MM: IM: 150 HAT: 250 HAT: 0.62

6. MIN GP INCPT: 1800 GP ALT AT FAF: CUBIR 1800 MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 51.5

8. MSA FROM: RW17R 3100

PBN EQUIPMENT REQUIREMENTS NOTES:

RNP APCH

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZMSKL ON V477 NORTHBOUND AND V306 EASTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SEALY ON T200 SOUTHEAST BOUND, V222 WESTBOUND AND T200-220 NORTHWEST BOUND.

CHART SPEED ICON IN PLANVIEW AT OILER: MAX 210 KIAS

CHART NOTE: BARO-VNAV NA WHEN USING GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15°C OR ABOVE 54°C.

CHART NOTE: RWY 17R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GEORGE BUSH INTERCONTINENTAL/HOUSTON ALTIMETER SETTING: INCREASE ALL DAS 36 FEET AND VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET.

CHART NOTE: WHEN CONTROL TOWER CLOSED, LPV VISIBILITY 1 SM.

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 347.77 INBOUND

CHART FAS OBST: 297 TRANSMISSION LINE 300437N/0953305W

CHART: 426 TOWER 300905N/0953242W, 308 TRANSMISSION LINE 300642N/0953437W

FAS OBST: 389 AAO 300814N/0953408W

CHART CIRCLING ICON.

WAAS CHANNEL #41063

REFERENCE PATH ID: W17A

LTP HAE (WGS84): 18.6 M

*LNAV ONLY

NON-FAA PROCEDURE

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:

FINAL TYPE	DA/MDA	A VIS	HAT/HAA	DA/MDA	B VIS	HAT/HAA	DA/MDA	C VIS	HAT/HAA	DA/MDA	D VIS	HAT/HAA	DA/MDA	E VIS	HAT/HAA
LPV DA	402	3/4	250	402	3/4	250	402	3/4	250	402	3/4	250			
LNAV/VNAV DA	508	1 1/8	356	508	1 1/8	356	508	1 1/8	356	508	1 1/8	356			
LNAV MDA	600	1	448	600	1	448	600	1 3/8	448	600	1 3/8	448			
CIRCLING	640	1	488	660	1	508	680	1 1/2	528	760	2	608			

CHANGES - REASONS

ADD ZMSKL AND SEALY FEEDER ROUTES - ORDER 8260.3E, PARA 2-3-1 AND ATC REQUEST
ADD BRKMN TO OILER INITIAL - CONNECT WITH RIICE ARRIVAL
REPLACE 5 NM NEGIY TO OILER WITH 5.91 NM TUFFS TO OILER TERMINAL ROUTE - MINIMUM 210 KIAS SEGMENT LENGTH
REPLACE 5 NM PIYSI TO OILER WITH 5.91 NM WATSI TO OILER TERMINAL ROUTE - MINIMUM 210 KIAS SEGMENT LENGTH
ADD LPV AND LNAV/VNAV MINIMA - AIRPORT REQUEST
REDUCE LNAV MDA FROM 640 TO 600 MSL - ADDED STEPDOWN WAYPOINTS

COORDINATED WITH:

A4A ☐ ALPA ☐ AOPA ☒ APA ☐ HAI ☒ NBAA ☒ OTHER: I90, DWH ATCT, AMGR

FLIGHT CHECKED BY

CHRISTIAN F. BAUR

Chris Baur Digitally signed by Chris Baur
Date: 2020.12.03 10:58:34 -07'00'

OFFICE

HAC

DATE

03/18/2020

DEVELOPED BY

ROBERT ABBOTT

Robert Abbott Digitally signed by Robert Abbott
Date: 2020.12.03 10:58:50 -07'00'

OFFICE

HAC

DATE

09/24/2020

APPROVED BY

BRIAN BERUBEE

Brian Berubee Digitally signed by Brian Berubee
Date: 2020.12.03 10:59:02 -07'00'

OFFICE

HAC

DATE

11/06/2020

TITLE

CHIEF DESIGNER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDWH
RUNWAY	RW17R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	300414.0440N
LTP/FTP LONGITUDE	0953315.8825W
LTP/FTP ELLIPSOIDAL HEIGHT	+00186
FPAP LATITUDE	300245.4435N
FPAP LONGITUDE	0953302.9325W
THRESHOLD CROSSING HEIGHT (TCH)	00051.5
TCH UNITS SELECTOR (METERS OR FEET USED)	0
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40
VERTICAL ALERT LIMIT (VAL)	50
 <u>CRC REMAINDER</u>	 7D9C8DE8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00463
FPAP ORTHOMETRIC HEIGHT	+00463