

**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 ID</u> KGZN	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 18	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> CISCO	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 1711	<u>TDZE</u> 1711	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 12/05/2019	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 MARCH 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE			

**TAA**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>ALTITUDE</u></b>
087/30 CW 267/30	NOPT	ACTED	IF/IAF	3500
267/30 CW 357/30		ODORE	IAF	3500
357/30 CW 087/30		MAZES	IAF	4000

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
ODORE	IAF	ACTED	NOPT	TF	FB		266.64	6.10	3500
MAZES	IAF	ACTED	NOPT	TF	FB		086.52	6.10	3500
ACTED	IF/IAF	CASIG		TF	FB		176.58	6.14	3300
CASIG	FAF	FABSI/2.47 NM TO RW18		TF	FB		176.58	2.39	2540
FABSI/2.47 NM TO RW18	SDF	RW18	MAP	TF	FO		176.58	2.47	
RW18	MAP	1961 MSL		CA			176.58		
1961 MSL		GROFF		DF	FO				3700

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW18

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3700 DIRECT GROFF AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
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2. HOLD N ACTED, RT, 176.58 INBOUND, 3500 IN LIEU OF PT (IAF), MAX 5000
3. **FAC:** 176.58    **FAF:** CASIG    **DIST FAF TO MAP:** 4.86    **DIST FAF TO THLD:** 4.86
4. **MIN ALT:** ACTED 3500, CASIG 3300, FABS/2.47 NM TO RW18 2540
5. **DIST TO THLD FROM FAF:** 4.86    **MM:**    **IM:**    **150 HAT:**    **250 HAT:** 0.65
6. **MIN GP INCPT:** 3300    **GP ALT AT FAF:** 3300    **MM:**    **IM:**
7. **GP ANGLE:** 3.00    **34:1:** IS NOT CLEAR    **20:1:** IS CLEAR    **TCH:** 45.1
8. **MSA FROM:**

**PBN EQUIPMENT REQUIREMENTS NOTES:**

RNP APCH - GPS

**NOTES:**

CHART NOTE: CIRCLING NA E OF RWY 18-36.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING EASTLAND ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C OR ABOVE 54C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EASTLAND ALTIMETER SETTING AND INCREASE LPV DA TO 2023 FEET; INCREASE LNAV/VNAV DA TO 2067 FEET;  
INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 3/8 SM.  
CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART SPEED ICON IN PLANVIEW AT ACTED: MAX 200 KIAS.

**ADDITIONAL FLIGHT DATA:**

HOLD S, RT 356.58 INBOUND  
CHART FAS OBST: 1767 TRANSMISSION LINE (48-025068) 322328N/0990155W  
CHART 1896 TOWER (48-011915) 322204N/0990032W  
CHART VDP AT 0.96 NM TO RW18  
WAAS CHANNEL# 41250  
REFERENCE PATH ID: W18A  
LTP HAE (NAVD88): 492.2 M  
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	1961	1	250	1961	1	250	1961	1	250	1961	1	250			
LNAV/VNAV DA	1985	1	274	1985	1	274	1985	1	274	2005	1	294			
LNAV MDA	2060	1	349	2060	1	349	2060	1	349	2080	1	369			
CIRCLING	2140	1	429	2180	1	469	2180	1 1/2	469	2280	2	569			

**CHANGES - REASONS:**  
CHANGED TERMINAL ROUTE AND PROFILE FABSI/2.50 NM TO RW18 TO FABSI/2.47 NM TO RW18 - COINCIDE FINAL STEPDOWN WITH 3.00° VERTICAL DESCENT ANGLE  
INCREASED MISSED APPROACH CLIMB TO ALTITUDE AT GROFF FROM 3600 TO 3700 - GROFF MINIMUM IF/IAF ALTITUDE INCREASED TO 3700  
CHANGED BRECKENRIDGE ALTIMETER SETTING NOTES TO EASTLAND - KETN AWOS-3PT 10.9 NM CLOSER, ON WMSCR PER NWS AVIATION WEATHER CENTER REDUCED SECONDARY  
REMOTE ALTIMETER DA/MDA REQUIREMENT  
REMOVED 1690 TREE 322443.15N/0990037.35W 7:1 OBSTACLE CHARTING REQUIREMENT - REDUCED REMOTE ALTIMETER REQUIRED OBSTACLE CLEARANCE  
REMOVED MAZES AND ODORE MAX 200 KIAS SPEED ICON - CHANGED MAX 200 KIAS AT IF/IAF ACTED  
ADDED CAT D MINIMUMS - AIRPORT REQUEST  
REMOVED CIRCLING ICON REQUIREMENT  
CHANGED LTP AND FPAP ORTHOMETRIC HEIGHT FROM 464.0 TO 520.4 METERS - SURVEYED DISPLACED THRESHOLD NAVD88 VERTICAL DATUM  
CHANGED CRC REMAINDER FROM BE18AC60 TO 29B469E4 - FAS DATA BLOCK TOOL

**COORDINATED WITH:**

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☒ NBAA ☒ OTHER: ZFW, ABI ATCT, AMGR

**FLIGHT CHECKED BY**

CHRISTIAN F BAUR

Chris Baur Digitally signed by Chris Baur  
Date: 2022.11.06 15:16:11 -07'00'

OFFICE

HAC

DATE

08/24/2022

**DEVELOPED BY**

ROBERT ABBOTT

Robert Abbott Digitally signed by Robert Abbott  
Date: 2022.11.06 15:16:25 -07'00'

OFFICE

HAC

DATE

04/13/2022

**APPROVED BY**

BRIAN BERUBEE

Brian Berubee Digitally signed by Brian Berubee  
Date: 2022.12.14 18:49:12 -07'00'

OFFICE

HAC

DATE

12/14/2022

TITLE

CHIEF DESIGNER

**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGZN
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	322224.6935N
LTP/FTP LONGITUDE	0990124.9205W
LTP/FTP ELLIPSOIDAL HEIGHT	+04922
FPAP LATITUDE	322055.4160N
FPAP LONGITUDE	0990125.9840W
THRESHOLD CROSSING HEIGHT (TCH)	00045.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0904
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 29B469E4

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+005204
FPAP ORTHOMETRIC HIEGHT	+005204